



Object Naming Conventions

The communicated points for the Symbio™ controllers are generally named according to their function. While many of the points are read-only, others include both read and write capability. The established naming convention helps to identify the capabilities of each point. For most points, the suffix identifies the capability according to the following definition. While there are some exceptions, the majority of the points have been defined according to these guidelines.

Suffix	Description
Status	Points with the Status suffix are defined as read-only. The status point reports the value being used by the controller.
Local	Points with the Local suffix are defined as read-only. The local point reports values associated with controller sensors, both wired and wireless. The local value may or may not be actively used by the controller, depending on the presence or absence of a communicated value (BAS). When both a local and communicated value exist, the communicated value is used.
Active	Points with the Active suffix are defined as read-only. Points designated as active are normally the result of the arbitration between a communicated value (BAS) and at least one value local to the equipment, such as a sensor or default setpoint. The active point reports the value being input to the controller.
Setpoint	Points with the Setpoint suffix are defined as either read-only or read/write. For BACnet®, the binary input, analog input and multi-state input points are all read-only. These setpoints report the value currently in use by the controller. The analog value, binary value and multi-state value points are all read/write. These points are provided for use by the building automation system (BAS). When used, these points are written internally to arbitration logic. This defines the interaction with hardwired points, editable software configuration points and the relinquish default value/state. Refer to the Appendix for additional information.
Input	Points with the Input suffix are defined as read-only. These points normally reflect the status of a sensor input, either hardwired or communicating wirelessly (Air-Fi®). However, the input point reflects the arbitrated result of the controller sensor input and a communicated value, if present. When both a controller sensor and communicated value exist, the controller will use and report the communicated value.
Arbitrator	Points with the "Arbitrator" suffix are to be used as read-only. The arbitrator prioritizes inputs from communicating points, hardwired points and stored defaults points. The priority array of the arbitration point displays each of the values provided, including the active status, indicating which of the input sources is being used. Refer to the Appendix for additional information.
BAS	Points with the BAS suffix are defined as read/write. These points are provided for use by the building automation system (BAS). When used, these points are written to arbitration logic. This defines the interaction with hardwired points, editable software configuration points and the relinquished default value/state. Refer to the Appendix for additional information.
Command	Points with the Command suffix are defined as read/write. These points are written to change the default behavior of the controller. Once written, these point values may be persisted.
Request	Points with the Request suffix are defined as read/write. These points are written to request a change the operating behavior of the controller.



Object Data Points and Diagnostic Data Points

The following tables are sorted as follows:

- Tables are listed by input/output type and sorted by object identifier. These tables provide the user with the unit's type for each object
- Tables are sorted by object name and provide a complete list of object names, types, values/ranges, and descriptions.

Note: Not all points are available to the user. The available data points are defined during self-configuration and are dependent on the type of equipment.

Symbio™ 800 Integration Points List

BACnet®

CenTraVac™

Date: 11/15/2024

Reference Document: BAS-SVP083*-EN



Object Identifier	Object Name	Units	Configuration Dependency
AI-10100	Active Chilled Water Setpoint	Temperature	Standard
AI-10101	Chilled Water Setpoint Status	Temperature	Standard
AI-10102	Active Base Loading Setpoint	Percent	Base Loading
AI-10103	Active Hot Water Setpoint	Temperature	Hot Water Control
AI-10104	Calculated Chiller Capacity	Power, Cooling	Evap Water Flow Sensing
AI-10105	Total Demand Distortion	Percent	Active Harmonic Dampening
AI-10106	Active Cool/Heat Setpoint Temperature	Temperature	Standard
AI-10107	Evaporator Leaving Water Temperature	Temperature	Standard
AI-10108	Evaporator Entering Water Temperature	Temperature	Standard
AI-10109	Condenser Entering Water Temperature	Temperature	Standard
AI-10110	Condenser Leaving Water Temperature	Temperature	Standard
AI-10111	Evaporator Water Flow Rate	Flow, water	Evap Water Flow Sensing
AI-10112	Evaporator Differential Water Pressure	Differential Pressure	Evap Water Flow Differential Pressure or Dual Pressure Sensors
AI-10113	Condenser Water Flow Rate	Flow, water	Cond Water Flow Sensing
AI-10114	Condenser Differential Water Pressure	Differential Pressure	Cond Water Flow Differential Pressure or Dual Pressure Sensors
AI-10115	Heat Recovery Entering Water Temperature	Temperature	Heat Recovery
AI-10116	Heat Recovery Leaving Water Temperature	Temperature	Heat Recovery
AI-10117	AFD Last Diagnostic Code Ckt1	None	Unit Mount AFD w/o THD filter Remote Mount Comm AFD (PF6000)
AI-10118	Unit Source ID (Last Diagnostic Code)	None	Standard
AI-10119	Drive Input Voltage Calculated	Voltage	TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755)
AI-10120	Number of Circuits	None	Standard
AI-10121	Number of Compressors Circuit 1	None	Standard
AI-10122	Number of Compressors Circuit 2	None	Standard
AI-10123	Refrigerant Monitor	Concentration	Refrigerant Monitor
AI-10124	Evaporator Refrigerant Pressure Circuit 1	Pressure	Standard
AI-10125	Condenser Refrigerant Pressure Circuit 1	Pressure	Standard
AI-10126	Differential Refrigerant Pressure Circuit 1	Differential Pressure	Standard
AI-10127	Low Side Oil Pressure - Compressor 1A	Pressure	Not CVHS or CVGF CVR w/Oil Pressure Transducers or Oil Lite
AI-10128	High Side Oil Pressure - Compressor 1A	Pressure	Not CVHS or CVGF CVR w/Oil Pressure Transducers or Oil Lite
AI-10129	Oil Differential Pressure Circuit 1	Differential Pressure	Not CVHS or CVGF CVR w/Oil Pressure Transducers or Oil Lite
AI-10130	Oil Temperature - Compressor 1A	Temperature	Not CVHS
AI-10131	Evaporator Saturated Refrigerant Temperature Circuit 1	Temperature	Standard



Object Identifier	Object Name	Units	Configuration Dependency
AI-10132	Condenser Saturated Refrigerant Temperature Circuit 1	Temperature	Standard
AI-10133	Refrigerant Discharge Temperature - Compressor 1A	Temperature	Discharge Temperature Protection
AI-10134	Inlet Guide Vane 1 Percent Open Circuit 1	Percent	Standard
AI-10135	Inlet Guide Vane 2 Percent Open Circuit 1	Percent	Dual IGV2
AI-10136	Purge Carbon Tank Temperature Circuit 1	Temperature	Purge w/Carbon Tank
AI-10137	Purge Liquid Temperature Circuit 1	Temperature	Purge
AI-10138	Purge Refrigerant Compressor Suction Temperature Circuit 1	Temperature	Purge
AI-10139	Time Until Next Purge Run Circuit 1(in seconds)	None	Purge
AI-10140	Purge Pumpout Chiller On % (7 Days) Circuit 1	Percent	Purge
AI-10141	Purge Pumpout Chiller Off % (7 Days) Circuit 1	Percent	Purge
AI-10142	Purge 24 Hour Pumpout Circuit 1 (in seconds)	None	Purge
AI-10143	Purge Pumpout - Life Circuit 1 (in seconds)	None	Purge
AI-10144	Refrigeration - Life Circuit 1 (in seconds)	None	Purge
AI-10145	Starts - Compressor 1A	None	Standard
AI-10146	Run Time - Compressor 1A (in seconds)	None	Standard
AI-10147	Phase AB Voltage - Compressor 1A	Voltage	EM Starters Solid State Starters Non-communicating AFD (TR200) Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Communicating AFD (PF755)
AI-10148	Phase BC Voltage - Compressor 1A	Voltage	EM Starters Solid State Starters Non-communicating AFD (TR200) Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Communicating AFD (PF755)
AI-10149	Phase CA Voltage - Compressor 1A	Voltage	EM Starters Solid State Starters Non-communicating AFD (TR200) Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Communicating AFD (PF755)
AI-10150	Starter Average Phase Volt Circuit 1	Voltage	EM Starters Solid State Starters Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Non-communicating AFD (TR200) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China) Communicating AFD (PF755)



Object Identifier	Object Name	Units	Configuration Dependency
AI-10151	Line 1 Current - Compressor 1A	Current	EM Starters Solid State Starters Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Non-Communicating AFD (TR200) TR200 Modbus AFD Communicating AFD (PF755)
AI-10152	Line 2 Current - Compressor 1A	Current	EM Starters Solid State Starters Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Non-Communicating AFD (TR200) TR200 Modbus AFD Communicating AFD (PF755)
AI-10153	Line 3 Current - Compressor 1A	Current	EM Starters Solid State Starters Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Non-Communicating AFD (TR200) TR200 Modbus AFD Communicating AFD (PF755)
AI-10154	Average Line Current Circuit 1	Current	EM Starters Solid State Starters Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) Non-Communicating AFD (TR200) TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755)
AI-10155	Line 1 Current RLA - Compressor 1A	Percent	EM Starters Solid State Starters Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Non-Communicating AFD (TR200) TR200 Modbus AFD Communicating AFD (PF755)
AI-10156	Line 2 Current RLA - Compressor 1A	Percent	EM Starters Solid State Starters Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Non-Communicating AFD (TR200) TR200 Modbus AFD Communicating AFD (PF755)
AI-10157	Line 3 Current RLA - Compressor 1A	Percent	EM Starters Solid State Starters Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Non-Communicating AFD (TR200) TR200 Modbus AFD Communicating AFD (PF755)
AI-10158	Actual Running Capacity	Percent	EM Starters Solid State Starters Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) Non-Communicating AFD (TR200) TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)



Object Identifier	Object Name	Units	Configuration Dependency
AI-10159	Unit Power Consumption	Power, Electrical	EM Starters Solid State Starters Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755) Energy Meter
AI-10160	Starter Load Power Factor - Compressor 1A	None	EM Starters Solid State Starters Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
AI-10161	Inboard Bearing Temperature Circuit 1	Temperature	Bearing Temp Sensors (Not CVHM)
AI-10162	Outboard Bearing Temperature Circuit 1	Temperature	Bearing Temp Sensors
AI-10163	Motor Winding Temperature 1 Circuit 1	Temperature	Standard
AI-10164	Motor Winding Temperature 2 Circuit 1	Temperature	Standard
AI-10165	Motor Winding Temperature 3 Circuit 1	Temperature	Not CVHS and CVHM
AI-10166	AFD Frequency Circuit 1	None	Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
AI-10167	AFD Transistor Temperature Circuit 1	Temperature	Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
AI-10168	Drive Average Line Current Circuit 1	Current	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) w/Line Side Items Communicating AFD (AFD3)
AI-10169	Drive Current Line 1 Circuit 1	Current	Unit Mount AFD (LF2) w/Line Side Items
AI-10170	Drive Current Line 2 Circuit 1	Current	Unit Mount AFD (LF2) w/Line Side Items
AI-10171	Drive Current Line 3 Circuit 1	Current	Unit Mount AFD (LF2) w/Line Side Items
AI-10172	Drive Line Frequency Circuit 1	None	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) w/Line Side Items Communicating AFD (AFD3)
AI-10173	Drive Frequency Status	None	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF7000) Non- Communicating AFD (TR200) TR200 Modbus AFD Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
AI-10174	Drive Inverter Base Temperature Circuit 1	Temperature	Unit Mount AFD (LF2) w/Line Side Items Communicating AFD (AFD3)
AI-10175	Drive Rectifier Base Temperature Circuit 1	Temperature	Unit Mount AFD (LF2) w/Line Side Items Communicating AFD (AFD3)

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Object Identifier	Object Name	Units	Configuration Dependency
AI-10176	Drive Output Power Circuit 1	Current	Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
AI-10177	Drive Motor Current U RLA Circuit 1	Percent	Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
AI-10178	Drive Motor Current V RLA Circuit 1	Percent	Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
AI-10179	Drive Motor Current W RLA Circuit 1	Percent	Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
AI-10180	Drive Motor Current U Circuit 1	Current	Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
AI-10181	Drive Motor Current V Circuit 1	Current	Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
AI-10182	Drive Motor Current W Circuit 1	Current	Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
AI-10183	Drive Motor Voltage UV Circuit 1	Voltage	Communicating AFD (AFD3)
AI-10184	Drive Motor Voltage VW Circuit 1	Voltage	Communicating AFD (AFD3)
AI-10185	Drive Motor Voltage WU Circuit 1	Voltage	Communicating AFD (AFD3)
AI-10186	Drive Motor Average Voltage Circuit 1	Voltage	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) w/Line Side Items Communicating AFD (AFD3) Communicating AFD (PF755)
AI-10187	Drive Motor Average Current RLA Circuit 1	Percent	EM Starters Solid State Starters Non-Communicating AFD (TR200) Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
AI-10188	Lube Differential Pressure	Differential Pressure	CVHS
AI-10189	Lube Pump Suction Pressure	Pressure	CVHS
AI-10190	Lube Pump Discharge Pressure	Pressure	CVHS
AI-10191	Motor Coolant Temperature	Temperature	MTC Temp Sensor
AI-10192	AFD % RLA Ripple	Percent	Communicating AFD (AFD3)
AI-10193	AFD Inverter Module Temperature U	Temperature	Communicating AFD (AFD3)
AI-10194	AFD Inverter Module Temperature V	Temperature	Communicating AFD (AFD3)
AI-10195	AFD Inverter Module Temperature W	Temperature	Communicating AFD (AFD3)
AI-10196	Outboard Bearing Pad Temperature #1 Ckt1	Temperature	CVHH
AI-10197	Outboard Bearing Pad Temperature #2 Ckt1	Temperature	CVHH



Object Identifier	Object Name	Units	Configuration Dependency
AI-10198	Outboard Bearing Pad Temperature #3 Ckt1	Temperature	CVHH
AI-10199	Condenser Control Output	Percent	Head Pressure Control
AI-10200	Restart Inhibit Time Remaining	None	Standard
AI-10201	Chiller Design Capacity	Power, Cooling	Standard
AI-10202	Entering Condenser Water Pressure	Pressure	Condenser Water Flow Differential Pressure Sensors
AI-10203	Entering Evaporator Water Pressure	Pressure	Evaporator Water Flow Differential Pressure Sensors
AI-10204	Leaving Condenser Water Pressure	Pressure	Condenser Water Flow Differential Pressure Sensors
AI-10205	Leaving Evaporator Water Pressure	Pressure	Evaporator Water Flow Differential Pressure Sensors
AI-10206	Condenser Approach Temperature Circuit 1	Temperature, Delta	Standard
AI-10207	Evaporator Approach Temperature Circuit 1	Temperature, Delta	Standard
AI-10208	Drive DC Bus Voltage Circuit 1	Voltage	Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
AI-10209	Active Demand Limit Setpoint	Percent	Standard
AI-10210	Demand Limit Setpoint Status	Percent	Ice Building
AI-10211	Drive Heatsink Temperature Compressor 1A	Temperature	TR200 Modbus AFD
AI-10212	Heat Recovery Differential Water Pressure	Differential Pressure	Heat Recovery Water Flow Differential Pressure or Dual Pressure Sensors
AI-10213	Heat Recovery Water Flow Rate	Flow, water	Heat Recovery Water Flow Sensing
AI-10214	Heat Recovery Calculated Capacity	Power, Heating	Heat Recovery Water Flow Sensing
AI-10215	Heat Recovery Entering Water Pressure	Pressure	Heat Recovery Water Flow Differential Pressure Sensors
AI-10216	Heat Recovery Leaving Water Pressure	Pressure	Heat Recovery Water Flow Differential Pressure Sensors
AI-10217	Voltage L1-L2	Voltage	Energy Meter
AI-10218	Voltage L2-L3	Voltage	Energy Meter
AI-10219	Voltage L1-L3	Voltage	Energy Meter
AI-10220	Chiller Average Line Voltage	Voltage	Energy Meter
AI-10221	Current L1	Current	Energy Meter
AI-10222	Current L2	Current	Energy Meter
AI-10223	Current L3	Current	Energy Meter
AI-10224	Unit Average Line Current	Current	Energy Meter
AI-10225	Line Frequency	None	Energy Meter
AI-10226	Power Factor	None	Energy Meter
AI-10227	Unit Power Demand	None	Energy Meter



Object Identifier	Object Name	Units	Configuration Dependency
AI-10228	Energy Consumption	Energy, Electrical	Energy Meter EM Starters w/Line Voltage Sensing Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755)
AI-10229	Energy Consumption Lifetime	Energy, Electrical	Energy Meter EM Starters w/Line Voltage Sensing Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755)
AI-10230	Outdoor Air Temperature Local	Temperature	Outdoor Air Temperature
AI-10231	Heat Recovery Approach Temperature Circuit 1	Temperature, Delta	Heat Recovery



Object Identifier	Object Name	Units	Configuration Dependency
AV-10100	Chilled Water Setpoint	Temperature	Standard
AV-10101	Demand Limit Setpoint	Percent	Standard
AV-10102	Hot Water Setpoint	Temperature	Hot Water Control
AV-10103	Base Loading Setpoint	Percent	Base Loading

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Object Identifier	Object Name	Object States	Configuration Dependency
BI-10100	Base Loading Request Active	0 = Off 1 = On	Base Loading
BI-10101	Emergency Stop	0 = Auto 1 = Emergency Stop - Manual Reset Required	Standard
BI-10102	Manual Override Exists	0 = Off 1 = On	Standard
BI-10103	Base Loading Active	0 = Inactive 1 = Active	Base Loading
BI-10104	Run Enabled	0 = Run Not Enabled 1 = Run Enabled	Standard
BI-10105	Local Setpoint Control	0 = Remote Control 1 = Local Control	Standard
BI-10106	Maximum Capacity	0 = Off 1 = On	Standard
BI-10107	Evaporator Leaving Water Temperature	0 = Not Limited 1 = Limited	Standard
BI-10108	Head Relief Request	0 = Off 1 = On	Standard
BI-10109	Hot Gas Bypass Active	0 = Inactive 1 = Active	Hot Gas Bypass
BI-10110	Purge Compressor Relay Circuit 1	0 = Off 1 = On	Purge
BI-10111	Pump Out Relay Circuit 1	0 = Off 1 = On	Purge
BI-10112	Purge Regenerating Valve Solenoid Circuit 1	0 = Off 1 = On	Purge w/Carbon Tank
BI-10113	Chiller Running State	0 = Off 1 = On	Standard
BI-10114	Evaporator Water Pump Request	0 = Off 1 = On	Standard
BI-10115	Evaporator Water Flow Status	0 = No Flow 1 = Flow	Standard
BI-10116	Condenser Water Pump Request	0 = Off 1 = On	Standard
BI-10117	Condenser Water Flow Status	0 = No Flow 1 = Flow	Standard
BI-10118	Diagnostic Present	0 = Normal 1 = In Alarm	Standard
BI-10119	Diagnostic Shutdown Present	0 = Normal 1 = In Alarm	Standard
BI-10120	Diagnostic: Manual Reset Required	0 = Normal 1 = In Alarm	Standard
BI-10121	Diagnostic: Local Manual Reset Required	0 = Normal 1 = In Alarm	Standard
BI-10122	Diagnostic Present: Information	0 = Normal 1 = In Alarm	Standard

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Object Identifier	Object Name	Object States	Configuration Dependency
BI-10123	Diagnostic Present: Advisory	0 = Normal 1 = In Alarm	Standard
BI-10124	Diagnostic Present: Critical	0 = Normal 1 = In Alarm	Standard
BI-10125	Diagnostic Present: Service Required	0 = Normal 1 = In Alarm	Standard
BI-10126	Compressor 1A Status	0 = Off 1 = Running	Standard
BI-10127	Front Panel Auto Stop	0 = Stop 1 = Auto	Standard
BI-10128	External Auto Stop Input Status	0 = Stop 1 = Auto	Standard
BI-10129	Heat Recovery Water Flow Status	0 = No Flow 1 = Flow	Heat Recovery Water Flow Switch



Object Identifier	Diagnostic Name	Object States	Configuration Dependency
BI-11000	Diagnostic: AFD AD Calibration Error Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11001	Diagnostic: AFD AHD Frequency Out of Range Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11002	Diagnostic: AFD AHD Sync Signal Error Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11003	Diagnostic: AFD Bump Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11004	Diagnostic: AFD Bus Over Voltage Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3) Unit Mount Comm AFD - AFDY (PF755) MV Remote Mount Comm AFD Remote Mount Comm AFD - VFDB (PF6000)
BI-11005	Diagnostic: AFD Bus Ripple Too High Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11006	Diagnostic: AFD Bus Under Voltage Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3) Unit Mount Comm AFD - AFDY (PF755) MV Remote Mount Comm AFD Remote Mount Comm AFD - VFDB (PF6000)
BI-11007	Evaporator Leaving Water Temperature	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
BI-11008	Diagnostic: AFD Comm Loss: Main Processor Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3) Unit Mount Comm AFD - AFDY (PF755) Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) MV Remote Mount Comm AFD Remote Mount Comm AFD - VFDB (PF6000)
BI-11009	Diagnostic: AFD Control Board Memory Error Type 2 Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11010	Diagnostic: AFD Current Sensor Self Test Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11011	Diagnostic: AFD Desaturation Detected Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11012	Diagnostic: AFD DPI Communication Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11013	Diagnostic: AFD Drive Fault Circuit 1	0 = Normal 1 = In Alarm	MV Remote Mount Comm AFD
BI-11014	Diagnostic: AFD DSP Board ID Error Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11015	Diagnostic: AFD DSP Board Initialization Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11016	Diagnostic: AFD DSP Board Low Voltage Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11017	Diagnostic: AFD DSP Board Over Temp Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11018	Diagnostic: AFD Emergency Stop Fault Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3) MV Remote Mount Comm AFD
BI-11019	Diagnostic: AFD Estimated Junction Over Temp Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11020	Diagnostic: AFD Excessive AHD Inhibit Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)



Object Identifier	Diagnostic Name	Object States	Configuration Dependency
BI-11021	Diagnostic: AFD External Fault Input Circuit 1	0 = Normal 1 = In Alarm	Unit Mount Comm AFD - AFDY (PF755)
BI-11022	Diagnostic: AFD Fatal Software Error Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11023	Diagnostic: AFD Fault Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
BI-11024	Diagnostic: AFD Gate Drive Board Over Temp Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11025	Diagnostic: AFD Gate Drive Fault Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11026	Diagnostic: AFD Gate Drive Low Voltage Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11027	Diagnostic: AFD Gate Drive Module Comm Loss Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11028	Diagnostic: AFD Gate Kill Active Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3) Unit Mount Comm AFD - AFDY (PF755) Remote Mount Comm AFD - VFDB (PF6000)
BI-11029	Diagnostic: AFD General Failure Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
BI-11030	Diagnostic: AFD General Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3) Unit Mount AFD - AFDD,E,F (LF2) Unit Mount Comm AFD - AFDY (PF755) Remote Mount Comm AFD - (PF7000) MV Remote Mount Comm AFD Remote Mount Comm AFD - VFDB (PF6000)
BI-11031	Diagnostic: AFD Ground Fault Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
BI-11032	Diagnostic: AFD Ground Fault Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3) Unit Mount AFD - AFDD,E,F (LF2) Unit Mount Comm AFD - AFDY (PF755) Remote Mount Comm AFD - (PF7000) MV Remote Mount Comm AFD Remote Mount Comm AFD - VFDB (PF6000)
BI-11033	Diagnostic: AFD High Bus Voltage Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11034	Diagnostic: AFD High Temperature Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11035	Diagnostic: AFD I/O Board Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11036	Diagnostic: AFD IGBT Self Test Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11037	Diagnostic: AFD IMC 24V Detection Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11038	Diagnostic: AFD Input Transformer or Filter High Temp Circuit 1	0 = Normal 1 = In Alarm	Unit Mount Comm AFD - AFDY (PF755)
BI-11039	Diagnostic: AFD Instantaneous Current Overload Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3) Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) MV Remote Mount Comm AFD Remote Mount Comm AFD - VFDB (PF6000)
BI-11040	Diagnostic: AFD Interrupt Failure Circuit 1	0 = Normal 1 = In Alarm	Communicating AFD

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Object Identifier	Diagnostic Name	Object States	Configuration Dependency
BI-11041	Diagnostic: AFD Invalid Drive Command Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11042	Diagnostic: AFD Inverter Heatsink Over Temp Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3) MV Remote Mount Comm AFD
BI-11043	Diagnostic: AFD Loss of AHD Sync Signal Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11044	Diagnostic: AFD Low Rotor Flux Feedback Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3) Unit Mount Comm AFD - AFDY (PF755)
BI-11045	Diagnostic: AFD Mains Phase Loss Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
BI-11046	Diagnostic: AFD Motor Current Overload Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
BI-11047	Diagnostic: AFD Motor Current Overload Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3) Unit Mount Comm AFD - AFDY (PF755) Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) MV Remote Mount Comm AFD Remote Mount Comm AFD - VFDB (PF6000)
BI-11048	Diagnostic: AFD Motor Fault Circuit 1	0 = Normal 1 = In Alarm	Unit Mount Comm AFD - AFDY (PF755) Remote Mount Comm AFD - VFDB (PF6000)
BI-11049	Diagnostic: AFD Motor Short Circuit 1	0 = Normal 1 = In Alarm	Unit Mount Comm AFD - AFDY (PF755) Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11050	Diagnostic: AFD Non-Volatile Memory Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11051	Diagnostic: AFD Output Phase Loss Circuit 1	0 = Normal 1 = In Alarm	Unit Mount Comm AFD - AFDY (PF755) Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
BI-11052	Diagnostic: AFD Over Temperature Circuit 1	0 = Normal 1 = In Alarm	Unit Mount Comm AFD - AFDY (PF755) Remote Mount Comm AFD - VFDB (PF6000)
BI-11053	Diagnostic: AFD Overspeed Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11054	Diagnostic: AFD Panel Interlock Fault Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11055	Diagnostic: AFD Panel Interlock Warning Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11056	Diagnostic: AFD Power Intfc Controller Board Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11057	Diagnostic: AFD Power Loss Circuit 1	0 = Normal 1 = In Alarm	Unit Mount Comm AFD - AFDY (PF755) Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
BI-11058	Diagnostic: AFD Power Structure Board Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11059	Diagnostic: AFD Precharge Fault Circuit 1	0 = Normal 1 = In Alarm	Unit Mount Comm AFD - AFDY (PF755) Remote Mount Comm AFD - VFDB (PF6000)
BI-11060	Diagnostic: AFD Rectifier Heatsink Over Temp Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11061	Diagnostic: AFD RS485 Board Memory Error Type 2 Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11062	Diagnostic: AFD Safe Stop Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)



Object Identifier	Diagnostic Name	Object States	Configuration Dependency
BI-11063	Diagnostic: AFD Short Circuit Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
BI-11064	Diagnostic: AFD Speed Configuration Mismatch Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
BI-11065	Diagnostic: AFD Start Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11066	Diagnostic: AFD Temperature Sensor Warning Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11067	Diagnostic: AFD Watchdog Timer Overflow Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11068	Diagnostic: At Speed Input Opened Circuit 1	0 = Normal 1 = In Alarm	Non-comm AFD Solid State Starter
BI-11069	Diagnostic: At Speed Input Shorted Circuit 1	0 = Normal 1 = In Alarm	Non-comm AFD Solid State Starter
BI-11070	Diagnostic: Bearing Lube Flow First Stage Sensor Input	0 = Normal 1 = In Alarm	CVHS
BI-11071	Diagnostic: Bearing Lube Flow Second Stage Sensor Input	0 = Normal 1 = In Alarm	CVHS
BI-11072	Diagnostic: Brg Lube Flow Overdue First Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11073	Diagnostic: Brg Lube Flow Overdue Second Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11075	Diagnostic: Check Lube Filter Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11076	Diagnostic: Check Oil Filter Circuit 1	0 = Normal 1 = In Alarm	Oil Pump
BI-11077	Diagnostic: Check Oil Heater Circuit 1	0 = Normal 1 = In Alarm	Oil Heater
BI-11078	Comm Loss: Adaptive Frequency Drive Circuit 1	0 = Normal 1 = In Alarm	Communicating AFD
BI-11079	Comm Loss: AFD Speed Signal VDC Output Circuit 1	0 = Normal 1 = In Alarm	Non-comm AFD
BI-11080	Comm Loss: Bearing Lube Flow First Stage	0 = Normal 1 = In Alarm	CVHS
BI-11081	Comm Loss: Bearing Lube Flow Second Stage	0 = Normal 1 = In Alarm	CVHS
BI-11082	Comm Loss: Compressor Motor % RLA Output Circuit 1	0 = Normal 1 = In Alarm	% RLA Output
BI-11083	Comm Loss: Cond Diff Water Pressure	0 = Normal 1 = In Alarm	Cond Differential Pressure Flow Measurement
BI-11084	Comm Loss: Cond Head Press Cntrl Output	0 = Normal 1 = In Alarm	Head Pressure Control
BI-11085	Comm Loss: Cond High Pressure Cutout	0 = Normal 1 = In Alarm	Standard
BI-11086	Comm Loss: Cond Lubrication Source Valve	0 = Normal 1 = In Alarm	CVHS



Object Identifier	Diagnostic Name	Object States	Configuration Dependency
BI-11087	Comm Loss: Cond Refrigerant Pressure	0 = Normal 1 = In Alarm	Standard
BI-11088	Comm Loss: Cond Rfgt Pressure Output	0 = Normal 1 = In Alarm	Cond Refrigerant Pressure Output
BI-11089	Comm Loss: Cond Saturated Rfgt Temp	0 = Normal 1 = In Alarm	Standard
BI-11090	Comm Loss: Condenser Entering Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensor
BI-11091	Comm Loss: Condenser Entering Water Temp	0 = Normal 1 = In Alarm	Standard
BI-11092	Comm Loss: Condenser Leaving Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensor
BI-11093	Comm Loss: Condenser Leaving Water Temp	0 = Normal 1 = In Alarm	Standard
BI-11094	Comm Loss: Condenser Liquid Level Sensor	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11096	Comm Loss: Condenser Water Flow Switch	0 = Normal 1 = In Alarm	Standard
BI-11097	Comm Loss: Condenser Water Pump Relay	0 = Normal 1 = In Alarm	Standard
BI-11098	Comm Loss: Cprsr Discharge Rfgt Temp	0 = Normal 1 = In Alarm	Compressor Discharge Temp Sensor
BI-11099	Comm Loss: Economizer Bypass Valve	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11102	Comm Loss: Emergency Stop	0 = Normal 1 = In Alarm	Standard
BI-11103	Comm Loss: Energy Meter Circuit 1	0 = Normal 1 = In Alarm	Energy Meter
BI-11104	Comm Loss: Evap Diff Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Differential Pressure
BI-11105	Comm Loss: Evap Entering Water Temp	0 = Normal 1 = In Alarm	Standard
BI-11106	Comm Loss: Evap Leaving Water Temp	0 = Normal 1 = In Alarm	Standard
BI-11107	Comm Loss: Evap Lube Source Valve Relay	0 = Normal 1 = In Alarm	CVHS
BI-11108	Comm Loss: Evap Saturated Rfgt Temp	0 = Normal 1 = In Alarm	Standard
BI-11109	Comm Loss: Evaporator Entering Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Dual Pressure Sensor
BI-11110	Comm Loss: Evaporator Leaving Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Dual Pressure Sensor
BI-11111	Comm Loss: Evaporator Water Flow Switch	0 = Normal 1 = In Alarm	Standard
BI-11112	Comm Loss: Evaporator Water Pump Relay	0 = Normal 1 = In Alarm	Standard



Object Identifier	Diagnostic Name	Object States	Configuration Dependency
BI-11113	Comm Loss: Ext Base Loading Command	0 = Normal 1 = In Alarm	Base Loading
BI-11114	Comm Loss: Ext Base Loading Setpoint	0 = Normal 1 = In Alarm	Base Loading
BI-11115	Comm Loss: Ext Chilled/Hot Water Setpoint	0 = Normal 1 = In Alarm	External Chilled Water Setpoint
BI-11116	Comm Loss: Ext Demand Limit Setpoint	0 = Normal 1 = In Alarm	External Demand Limit
BI-11117	Comm Loss: External Auto/Stop	0 = Normal 1 = In Alarm	Standard
BI-11118	Comm Loss: External Free Cooling Command	0 = Normal 1 = In Alarm	Free Cooling
BI-11119	Comm Loss: External Hot Water Command	0 = Normal 1 = In Alarm	Hot Water Control
BI-11120	Comm Loss: External Ice Building Command	0 = Normal 1 = In Alarm	Ice Building
BI-11121	Comm Loss: Free Cool Actrs Closed Input	0 = Normal 1 = In Alarm	Free Cooling
BI-11122	Comm Loss: Free Cool Gas Line Actr Relay	0 = Normal 1 = In Alarm	Free Cooling
BI-11123	Comm Loss: Free Cool Liq Line Actr Relay	0 = Normal 1 = In Alarm	Free Cooling
BI-11124	Comm Loss: Free Cooling Auxiliary Relay	0 = Normal 1 = In Alarm	Free Cooling
BI-11125	Comm Loss: Generator Fault Input	0 = Normal 1 = In Alarm	Engine Generator Power Source
BI-11126	Comm Loss: Generator Speed Signal Output	0 = Normal 1 = In Alarm	Engine Generator Power Source
BI-11127	Comm Loss: Generator Start/Stop Relay	0 = Normal 1 = In Alarm	Engine Generator Power Source
BI-11128	Comm Loss: Generator Up To Speed Input	0 = Normal 1 = In Alarm	Engine Generator Power Source
BI-11129	Comm Loss: Heat Recovery Differential Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery Water Flow Measurement - Differential Pressure
BI-11130	Comm Loss: Heat Recovery Entering Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery Water Flow Measurement - Dual Pressure Sensor
BI-11131	Comm Loss: Heat Recovery Entering Water Temp	0 = Normal 1 = In Alarm	Heat Recovery
BI-11132	Comm Loss: Heat Recovery Leaving Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery Water Flow Measurement - Dual Pressure Sensor
BI-11133	Comm Loss: Heat Recovery Leaving Water Temp	0 = Normal 1 = In Alarm	Heat Recovery
BI-11134	Comm Loss: Heat Recovery Water Flow Switch	0 = Normal 1 = In Alarm	Heat Recovery Water Flow Switch
BI-11135	Comm Loss: High Lift Unload Valve Relay	0 = Normal 1 = In Alarm	CVGF



Object Identifier	Diagnostic Name	Object States	Configuration Dependency
BI-11136	Comm Loss: Hot Gas Bypass Actr Closed In	0 = Normal 1 = In Alarm	Hot Gas Bypass
BI-11137	Comm Loss: Hot Gas Bypass Load Relay	0 = Normal 1 = In Alarm	Hot Gas Bypass
BI-11138	Comm Loss: Hot Gas Bypass Unload Relay	0 = Normal 1 = In Alarm	Hot Gas Bypass
BI-11139	Comm Loss: Ice Building Relay	0 = Normal 1 = In Alarm	Ice Building
BI-11140	Comm Loss: IGV First Stage Actuator Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11141	Comm Loss: IGV Second Stage Actuator Circuit 1	0 = Normal 1 = In Alarm	Dual Actuators
BI-11142	Comm Loss: Inboard Bearing Temperature Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensor
BI-11143	Comm Loss: Lube Pump Discharge Pressure	0 = Normal 1 = In Alarm	CVHS
BI-11144	Comm Loss: Lube Pump Suction Pressure	0 = Normal 1 = In Alarm	CVHS
BI-11145	Comm Loss: Lube/Refrigerant Pump Relay	0 = Normal 1 = In Alarm	CVHS
BI-11146	Comm Loss: Motor Coolant Temperature	0 = Normal 1 = In Alarm	MTC Temperature Sensor
BI-11147	Comm Loss: Motor Temp/Overload	0 = Normal 1 = In Alarm	"Lite" Motor Temp Protection
BI-11148	Comm Loss: Motor Temperature Cutout	0 = Normal 1 = In Alarm	MTC Switch
BI-11149	Comm Loss: Motor Winding Temperature 1 Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M,S CVGF
BI-11150	Comm Loss: Motor Winding Temperature 2 Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M,S CVGF
BI-11151	Comm Loss: Motor Winding Temperature 3 Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L CVGF
BI-11152	Comm Loss: Oil Cooler Solenoid Circuit 1	0 = Normal 1 = In Alarm	CVHH Oil Cooler Solenoid Valve
BI-11153	Comm Loss: Oil Diff Pressure Switch Circuit 1	0 = Normal 1 = In Alarm	CVGF
BI-11154	Comm Loss: Oil Pressure Status Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M
BI-11155	Comm Loss: Oil Pump Discharge Pressure Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M
BI-11156	Comm Loss: Oil Tank Heater 4E1 Relay Circuit 1	0 = Normal 1 = In Alarm	CVHH CVGF
BI-11157	Comm Loss: Oil Tank Heater 4E2 Relay Circuit 1	0 = Normal 1 = In Alarm	CVHH CVGF
BI-11158	Comm Loss: Oil Tank Heater Relay Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M

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Object Identifier	Diagnostic Name	Object States	Configuration Dependency
BI-11159	Comm Loss: Oil Tank Pressure Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M
BI-11160	Comm Loss: Oil Tank Temperature Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M CVGF
BI-11161	Comm Loss: Oil Vent Line Circuit 1	0 = Normal 1 = In Alarm	CVHH
BI-11162	Comm Loss: Oil/Refrigerant Pump Relay Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M CVGF
BI-11163	Comm Loss: Outboard Bearing Pad Temp 1 Circuit 1	0 = Normal 1 = In Alarm	CVHH
BI-11164	Comm Loss: Outboard Bearing Pad Temp 2 Circuit 1	0 = Normal 1 = In Alarm	CVHH
BI-11165	Comm Loss: Outboard Bearing Pad Temp 3 Circuit 1	0 = Normal 1 = In Alarm	CVHH
BI-11166	Comm Loss: Outboard Bearing Temperature Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensor
BI-11167	Comm Loss: Outdoor Air Temperature	0 = Normal 1 = In Alarm	Outdoor Air Temp Sensor
BI-11168	Comm Loss: Programmable Relay Board 1	0 = Normal 1 = In Alarm	Programmable Status Relays
BI-11169	Comm Loss: Programmable Relay Board 2	0 = Normal 1 = In Alarm	Programmable Status Relays
BI-11170	Comm Loss: Purge Alarm Relay Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11171	Comm Loss: Purge Carbon Tank Heater Rly Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank
BI-11172	Comm Loss: Purge Carbon Tank Temperature Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank
BI-11173	Comm Loss: Purge Condensing Unit Relay Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11174	Comm Loss: Purge Cprsr Suction Rfgr Temp Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11175	Comm Loss: Purge Exhaust Solenoid Output Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11176	Comm Loss: Purge Liquid Level Switch Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11177	Comm Loss: Purge Pumpout Relay Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11178	Comm Loss: Purge Pumpout Solenoid Output Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11179	Comm Loss: Purge Regen Solenoid Relay Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank
BI-11180	Comm Loss: Refrigerant Monitor Input	0 = Normal 1 = In Alarm	Refrigerant Monitor
BI-11181	Comm Loss: Starter Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs



Object Identifier	Diagnostic Name	Object States	Configuration Dependency
BI-11182	Comm Loss: Starter Fault Circuit 1	0 = Normal 1 = In Alarm	Non-comm AFD Solid State Starter
BI-11183	Comm Loss: Vibration Sensor Input	0 = Normal 1 = In Alarm	Vibration Sensor
BI-11184	Diagnostic: Compressor Did Not Accelerate: Shutdown Compressor 1A	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11185	Diagnostic: Cond Saturated Refrigerant Temp Sensor	0 = Normal 1 = In Alarm	Standard
BI-11186	Diagnostic: Condenser Diff Water Pressure Xdcr	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Differential Pressure
BI-11187	Diagnostic: Condenser Entering Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensor
BI-11188	Diagnostic: Condenser Entering Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
BI-11189	Diagnostic: Condenser High Pressure Cutout	0 = Normal 1 = In Alarm	Standard
BI-11190	Diagnostic: Condenser Leaving Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensor
BI-11191	Diagnostic: Condenser Leaving Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
BI-11192	Diagnostic: Condenser Liquid Level Sensor	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11193	Diagnostic: Condenser Refrigerant Pressure Xdcr	0 = Normal 1 = In Alarm	Condenser Refrigerant Pressure Sensor
BI-11195	Diagnostic: Condenser Water Flow Lost	0 = Normal 1 = In Alarm	Standard
BI-11196	Diagnostic: Condenser Water Flow Overdue	0 = Normal 1 = In Alarm	Standard
BI-11197	Diagnostic: Cprsr Did Not Accelerate: Transition	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11198	Diagnostic: Cprsr Discharge Refrigerant Temp Sensor	0 = Normal 1 = In Alarm	Compressor Discharge Temp Sensor
BI-11199	Diagnostic: Differential Lube Pressure Overdue Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11200	Diagnostic: Differential Oil Pressure Overdue Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M CVGF
BI-11202	Diagnostic: Emergency Stop	0 = Normal 1 = In Alarm	Standard
BI-11203	Diagnostic: Evap Rfgt Temp Deviate From Selection	0 = Normal 1 = In Alarm	Standard
BI-11204	Diagnostic: Evap Saturated Refrigerant Temp Sensor	0 = Normal 1 = In Alarm	Standard
BI-11205	Diagnostic: Evaporator Diff Water Pressure Xdcr	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Differential Pressure
BI-11206	Diagnostic: Evaporator Entering Water Pressure	0 = Normal 1 = In Alarm	Evap Flow Measurement - Dual Pressure Sensor



Object Identifier	Diagnostic Name	Object States	Configuration Dependency
BI-11207	Diagnostic: Evaporator Entering Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
BI-11208	Diagnostic: Evaporator Leaving Water Pressure	0 = Normal 1 = In Alarm	Evap Flow Measurement - Dual Pressure Sensor
BI-11209	Diagnostic: Evaporator Leaving Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
BI-11210	Diagnostic: Evaporator Water Flow Lost	0 = Normal 1 = In Alarm	Standard
BI-11211	Diagnostic: Evaporator Water Flow Overdue	0 = Normal 1 = In Alarm	Standard
BI-11212	Diagnostic: Excessive Loss of Communication	0 = Normal 1 = In Alarm	Standard
BI-11213	Diagnostic: Extended Compressor Surge Compressor 1A	0 = Normal 1 = In Alarm	Standard
BI-11214	Diagnostic: External Base Loading Setpoint	0 = Normal 1 = In Alarm	Base Loading
BI-11215	Diagnostic: External Chilled/Hot Water Setpoint	0 = Normal 1 = In Alarm	External Chilled Water Setpoint
BI-11216	Diagnostic: External Demand Limit Setpoint	0 = Normal 1 = In Alarm	External Demand Limit Setpoint
BI-11217	Diagnostic: Free Cooling Actrs Not Open During FC	0 = Normal 1 = In Alarm	Free Cooling
BI-11218	Diagnostic: Free Cooling Actuators Not Closed	0 = Normal 1 = In Alarm	Free Cooling
BI-11219	Diagnostic: Free Cooling Actuators Not Open	0 = Normal 1 = In Alarm	Free Cooling
BI-11220	Diagnostic: Free Cooling Actuators Unexpectedly Open	0 = Normal 1 = In Alarm	Free Cooling
BI-11221	Diagnostic: Generator Fault Relay Open	0 = Normal 1 = In Alarm	Engine Generator Power Source
BI-11222	Diagnostic: Generator Ready Signal Overdue	0 = Normal 1 = In Alarm	Engine Generator Power Source
BI-11223	Diagnostic: Heat Recovery Diff Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery Water Flow Measurement - Differential Pressure
BI-11224	Diagnostic: Heat Recovery Entering Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery Water Flow Measurement - Dual Pressure Sensor
BI-11225	Diagnostic: Heat Recovery Entering Water Temp Sensor	0 = Normal 1 = In Alarm	Heat Recovery
BI-11226	Diagnostic: Heat Recovery Leaving Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery Water Flow Measurement - Dual Pressure Sensor
BI-11227	Diagnostic: Heat Recovery Leaving Water Temp Sensor	0 = Normal 1 = In Alarm	Heat Recovery
BI-11228	Diagnostic: High Condenser Pressure	0 = Normal 1 = In Alarm	Standard
BI-11229	Diagnostic: High Cprsr Rfght Discharge Temperature	0 = Normal 1 = In Alarm	Compressor Discharge Temp Sensor

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Object Identifier	Diagnostic Name	Object States	Configuration Dependency
BI-11230	Diagnostic: High Differential Refrigerant Pressure	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M,S
BI-11231	Diagnostic: High Evaporator Refrigerant Temperature	0 = Normal 1 = In Alarm	Standard
BI-11232	Diagnostic: High Evaporator Water Temperature	0 = Normal 1 = In Alarm	Standard
BI-11233	Diagnostic: High Inboard Bearing Temperature Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensor
BI-11234	Diagnostic: High Motor Coolant Temperature Circuit 1	0 = Normal 1 = In Alarm	MTC Temperature Sensor
BI-11235	Diagnostic: High Motor Winding Temperature 1 Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,S,M,L CVGF
BI-11236	Diagnostic: High Motor Winding Temperature 2 Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,S,M,L CVGF
BI-11237	Diagnostic: High Motor Winding Temperature 3 Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L CVGF
BI-11238	Diagnostic: High Oil Temperature Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11239	Diagnostic: High Outboard Bearing Pad Temperature 1 Circuit 1	0 = Normal 1 = In Alarm	CVHH
BI-11240	Diagnostic: High Outboard Bearing Pad Temperature 2 Circuit 1	0 = Normal 1 = In Alarm	CVHH
BI-11241	Diagnostic: High Outboard Bearing Pad Temperature 3 Circuit 1	0 = Normal 1 = In Alarm	CVHH
BI-11242	Diagnostic: High Outboard Bearing Temp Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensor
BI-11243	Diagnostic: High Vacuum Lockout Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11244	Diagnostic: Hot Gas Bypass Valve Closure Overdue	0 = Normal 1 = In Alarm	Hot Gas Bypass
BI-11245	Diagnostic: Hot Gas Bypass Valve Opening Overdue	0 = Normal 1 = In Alarm	Hot Gas Bypass
BI-11246	Diagnostic: Hot Gas Bypass Valve Unexpectedly Open	0 = Normal 1 = In Alarm	Hot Gas Bypass
BI-11247	Diagnostic: HPC/High AFD Heat Sink Water Pressure	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11248	Diagnostic: Inboard Bearing Temp Sensor Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensor
BI-11249	Diagnostic: Inverted Condenser Approach Temperature	0 = Normal 1 = In Alarm	Standard
BI-11250	Diagnostic: Inverted Condenser Water Temperature	0 = Normal 1 = In Alarm	Standard
BI-11251	Diagnostic: Inverted Evaporator Approach Temperature	0 = Normal 1 = In Alarm	Standard
BI-11252	Diagnostic: Inverted Evaporator Water Temperature	0 = Normal 1 = In Alarm	Standard



Object Identifier	Diagnostic Name	Object States	Configuration Dependency
BI-11253	Diagnostic: Loss of Economizer Bypass Valve Control	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11254	Diagnostic: Low Bearing Lube Flow First Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11255	Diagnostic: Low Bearing Lube Flow Second Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11256	Diagnostic: Low Brg Lube Flow Lockout First Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11257	Diagnostic: Low Brg Lube Flow Lockout Second Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11258	Diagnostic: Low Differential Lube Pressure Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11259	Diagnostic: Low Differential Oil Pressure Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M CVGF
BI-11260	Diagnostic: Low Evap Leaving Water Temp: Unit Off	0 = Normal 1 = In Alarm	Standard
BI-11261	Diagnostic: Low Evap Leaving Water Temp: Unit On	0 = Normal 1 = In Alarm	Standard
BI-11262	Diagnostic: Low Evaporator Refrigerant Temperature	0 = Normal 1 = In Alarm	Standard
BI-11263	Diagnostic: Low Evaporator Water Flow	0 = Normal 1 = In Alarm	Water Flow Sensing
BI-11264	Diagnostic: Low Oil Temperature Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L CVGF
BI-11265	Diagnostic: Lube Pressure Sensor Calibration Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11266	Diagnostic: Lube Pump Disch Pressure Xdcr Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11267	Diagnostic: Lube Pump Override: Low Diff Press Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11268	Diagnostic: Lube Pump Override: Low Flow 1st Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11269	Diagnostic: Lube Pump Override: Low Flow 2nd Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11270	Diagnostic: Lube Pump Suction Pressure Xdcr Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11271	Diagnostic: Momentary Power Loss	0 = Normal 1 = In Alarm	Momentary Power Loss
BI-11272	Diagnostic: Motor Coolant Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	MTC Temperature Sensor
BI-11273	Diagnostic: Motor Current Overload Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11274	Diagnostic: Motor Temperature Cutout Tripped Circuit 1	0 = Normal 1 = In Alarm	MTC Switch
BI-11275	Diagnostic: Motor Winding Temperature 1 Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard



Object Identifier	Diagnostic Name	Object States	Configuration Dependency
BI-11276	Diagnostic: Motor Winding Temperature 2 Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11277	Diagnostic: Motor Winding Temperature 3 Sensor Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L CVGF
BI-11278	Diagnostic: MP: Invalid Configuration	0 = Normal 1 = In Alarm	Standard
BI-11279	Diagnostic: MP: Reset Has Occurred	0 = Normal 1 = In Alarm	Standard
BI-11280	Diagnostic: Oil Pressure Sensor Calibration Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M
BI-11281	Diagnostic: Oil Pump Discharge Pressure Transducer Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M
BI-11282	Diagnostic: Oil Tank Pressure Transducer Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M
BI-11283	Diagnostic: Oil Tank Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M CVGF
BI-11284	Diagnostic: Outboard Bearing Pad Temp 1 Sensor Circuit 1	0 = Normal 1 = In Alarm	CVHH
BI-11285	Diagnostic: Outboard Bearing Pad Temp 2 Sensor Circuit 1	0 = Normal 1 = In Alarm	CVHH
BI-11286	Diagnostic: Outboard Bearing Pad Temp 3 Sensor Circuit 1	0 = Normal 1 = In Alarm	CVHH
BI-11287	Diagnostic: Outboard Bearing Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensor
BI-11288	Diagnostic: Outdoor Air Temperature Sensor	0 = Normal 1 = In Alarm	Outdoor Air Temp Sensor
BI-11289	Diagnostic: Over Voltage Circuit 1	0 = Normal 1 = In Alarm	Line Voltage Sensing
BI-11290	Diagnostic: Phase Loss Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11291	Diagnostic: Phase Reversal Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11292	Diagnostic: Power Loss Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11293	Diagnostic: Purge Carbon Regen Temp Limit Exceeded Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank
BI-11294	Diagnostic: Purge Carbon Regen Temp Not Satisfied Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank
BI-11295	Diagnostic: Purge Carbon Regen Temperature Too Low Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank
BI-11296	Diagnostic: Purge Carbon Tank Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank
BI-11297	Diagnostic: Purge Cprsr Suction Rfgr Temp Sensor Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11298	Diagnostic: Purge Daily Pumpout Limit Exceeded Circuit 1	0 = Normal 1 = In Alarm	Purge



Object Identifier	Diagnostic Name	Object States	Configuration Dependency
BI-11299	Diagnostic: Purge Liquid Level Too High Continuously Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11300	Diagnostic: Purge Liquid Level Too High Warning Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11301	Diagnostic: Purge Regen Cooldown Temp Too High Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank
BI-11302	Diagnostic: Refrigerant Monitor Input	0 = Normal 1 = In Alarm	Refrigerant Monitor
BI-11303	Diagnostic: Restart Inhibit	0 = Normal 1 = In Alarm	Standard
BI-11304	Diagnostic: Severe Current Unbalance Circuit 1	0 = Normal 1 = In Alarm	Line Voltage Sensing
BI-11305	Diagnostic: Software Error 1001: Call Trane Service	0 = Normal 1 = In Alarm	Standard
BI-11306	Diagnostic: Software Error 1004: Call Trane Service	0 = Normal 1 = In Alarm	Standard
BI-11307	Diagnostic: Starter Comm Loss: Main Processor Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11308	Diagnostic: Starter Contactor Interrupt Failure Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11309	Diagnostic: Starter Did Not Fully Accelerate Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11310	Diagnostic: Starter Did Not Transition Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11311	Diagnostic: Starter Dry Run Test Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11312	Diagnostic: Starter Failed to Arm/Start Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11313	Diagnostic: Starter Fault Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11314	Diagnostic: Starter Fault Type I Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11315	Diagnostic: Starter Fault Type II Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11316	Diagnostic: Starter Fault Type III Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11317	Diagnostic: Starter Module Memory Error Type 1 Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11318	Diagnostic: Starter Module Memory Error Type 2 Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11319	Diagnostic: Transition Complete Input Opened Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11320	Diagnostic: Transition Complete Input Shorted Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11321	Diagnostic: Under Voltage Circuit 1	0 = Normal 1 = In Alarm	Line Voltage Sensing



Object Identifier	Diagnostic Name	Object States	Configuration Dependency
BI-11322	Diagnostic: Unexpected Differential Lube Pressure Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11323	Diagnostic: Unexpected Differential Oil Pressure Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M CVGF
BI-11324	Diagnostic: Unexpected Starter Shutdown Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11325	Diagnostic: Vibration Sensor Input	0 = Normal 1 = In Alarm	Vibration Sensor
BI-11326	Comm Loss: Evap Refrigerant Pressure Circuit 1	0 = Normal 1 = In Alarm	Evap Pressure Sensor
BI-11327	Diagnostic: Evaporator Refrigerant Pressure Xdcr Circuit 1	0 = Normal 1 = In Alarm	Evap Pressure Sensor
BI-11328	Diagnostic: Inverted Heat Recovery Approach Temperature Circuit 1	0 = Normal 1 = In Alarm	Heat Recovery
BI-11329	Comm Loss: Sporlan Automatic Econ Valve Circuit 1	0 = Normal 1 = In Alarm	Sporlan Automatic Valve
BI-11330	Comm Loss: Sporlan Automatic Cond Valve Circuit 1	0 = Normal 1 = In Alarm	Sporlan Automatic Valve



Object Identifier	Object Name	Units	Configuration Dependency
BV-10100	Base Loading Request	0 = Off 1 = On	Base Loading
BV-10101	Reset Diagnostic	0 = Normal 1 = Reset	Standard
BV-10102	Evaporator Water Pump Request BAS	0 = Auto 1 = On	Standard
BV-10103	Condenser Water Pump Request BAS	0 = Auto 1 = On	Standard
BV-10104	Chiller Auto Stop Command BAS	0 = Stop 1 = Auto	Standard
BV-10105	Energy Consumption Reset	0 = Accumulating 1 = Reset	Energy Meter EM Starters w/Line Voltage Sensing Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755)



Object Identifier	Object Name	Object States	Configuration Dependency
MI-10100	Running Mode	1 = Chiller Off 2 = Chiller In Start Mode 3 = Chiller In Run Mode 4 = Chiller In Pre-Shutdown Mode 5 = Chiller In Service Mode	Standard
MI-10101	Operating Mode	1 = Cool 2 = Heat 3 = Ice Making 4 = Free Cooling	Standard
MI-10102	Chiller Setpoint Source	1 = BAS 2 = External 3 = Front Panel	Standard
MI-10103	Model Information [GEN2]	1 = CVHF 2 = CVGF 3 = CVHS 11 = CTVD 12 = CVR 13 = CVHH 14 = CDHH 20 = CVHM 38 = CVHE 39 = CVHG 40 = CVHL	Standard
MI-10104	Cooling Type	1 = Water Cooled	Standard
MI-10105	Refrigerant Type	1 = R-11 2 = R-12 3 = R-22 4 = R-123 5 = R-134a 8 = R-113 9 = R-114 10 = R-500 11 = R-502 13 = R-513A 14 = R-1233zd(E) 15 = R-514A	Standard
MI-10106	Manufacturing Location	1 = Field Applied 2 = La Crosse 15 = Taicang	Standard



Object Identifier	Object Name	Property Value	Configuration Dependency
MV-10100	Chiller Mode Command BAS	1 = Cool 2 = Heat 3 = Ice Making 4 = Free Cooling	Standard



Object Identifier	Object Name	Units	Configuration Dependency
AI-10100	Active Chilled Water Setpoint	Temperature	Standard
AI-10101	Chilled Water Setpoint Status	Temperature	Standard
AI-10102	Active Base Loading Setpoint	Percentage	Base Loading
AI-10103	Hot Water Setpoint Active	Temperature	Hot Water Control
AI-10104	Calculated Chiller Capacity	Power, Cooling	Evap Water Flow Sensing
AI-10105	Active Cool/Heat Setpoint Temperature	Temperature	Standard
AI-10106	Evaporator Leaving Water Temperature	Temperature	Standard
AI-10107	Evaporator Entering Water Temperature	Temperature	Standard
AI-10108	Condenser Entering Water Temperature	Temperature	Standard
AI-10109	Condenser Leaving Water Temperature	Temperature	Standard
AI-10110	Evaporator Water Flow Rate	Flow, Water	Evap Water Flow Sensing
AI-10111	Evaporator Differential Water Pressure	Differential Pressure	Evap Water Flow Differential Pressure or Dual Pressure Sensors
AI-10112	Condenser Water Flow Rate	Flow, Water	Cond Water Flow Sensing
AI-10113	Condenser Differential Water Pressure	Differential Pressure	Cond Water Flow Differential Pressure or Dual Pressure Sensors
AI-10114	AFD Last Diagnostic Code Ckt1	None	AFD
AI-10115	Unit Source ID (Last Diagnostic Code)	None	Standard
AI-10116	Refrigerant Monitor	Concentration	Refrigerant Monitor
AI-10117	Evaporator Refrigerant Pressure Circuit 1	Pressure	Standard
AI-10118	Condenser Refrigerant Pressure Circuit 1	Pressure	Standard
AI-10119	Differential Refrigerant Pressure Circuit 1	Differential Pressure	Standard
AI-10120	Low Side Oil Pressure - Compressor 1A	Pressure	Standard
AI-10121	High Side Oil Pressure - Compressor 1A	Pressure	Standard
AI-10122	Oil Differential Pressure Circuit 1	Differential Pressure	Standard
AI-10123	Oil Temperature - Compressor 1A	Temperature	Standard
AI-10124	Evaporator Saturated Refrigerant Temperature Circuit 1	Temperature	Standard
AI-10125	Condenser Saturated Refrigerant Temperature Circuit 1	Temperature	Standard
AI-10126	Refrigerant Discharge Temperature - Compressor 1A	Temperature	Compressor Refrigerant Discharge Temperature
AI-10127	Inlet Guide Vane 1 Percent Open Circuit 1	Percentage	Standard
AI-10128	Inlet Guide Vane 2 Percent Open Circuit 1	Percentage	Dual IGV
AI-10129	Purge Carbon Tank Temperature Circuit 1	Temperature	Purge w/Carbon Tank
AI-10130	Purge Liquid Temperature Circuit 1	Temperature	Purge
AI-10131	Purge Refrigerant Compressor Suction Temperature Circuit 1	Temperature	Purge
AI-10132	Time Until Next Purge Run Circuit 1 (in seconds)	None	Purge

Symbio™ 800 Integration Points List

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Date: 11/15/2024

Reference Document: BAS-SVP083*-EN



Object Identifier	Object Name	Units	Configuration Dependency
AI-10133	Purge Pumpout Chiller On % (7 Days) Circuit 1	Percentage	Purge
AI-10134	Purge Pumpout Chiller Off % (7 Days) Circuit 1	Percentage	Purge
AI-10135	Purge 24 Hour Pumpout Circuit 1 (in seconds)	None	Purge
AI-10136	Purge Pumpout - Life Circuit 1 (in seconds)	None	Purge
AI-10137	Refrigeration - Life Circuit 1 (in seconds)	None	Purge
AI-10138	Starts - Compressor 1A	None	Standard
AI-10139	Run Time - Compressor 1A (in seconds)	None	Standard
AI-10140	Phase AB Voltage - Compressor 1A	Voltage	EM Starter AFD
AI-10141	Phase BC Voltage - Compressor 1A	Voltage	EM Starter AFD
AI-10142	Phase CA Voltage - Compressor 1A	Voltage	EM Starter AFD
AI-10143	Starter Average Phase Volt Circuit 1	Voltage	EM Starter AFD
AI-10144	Line 1 Current - Compressor 1A	Current	EM Starter AFD
AI-10145	Line 2 Current - Compressor 1A	Current	EM Starter AFD
AI-10146	Line 3 Current - Compressor 1A	Current	EM Starter AFD
AI-10147	Average Line Current Circuit 1	Current	EM Starter AFD
AI-10148	Line 1 Current RLA - Compressor 1A	Percentage	EM Starter AFD
AI-10149	Line 2 Current RLA - Compressor 1A	Percentage	EM Starter AFD
AI-10150	Line 3 Current RLA - Compressor 1A	Percentage	EM Starter AFD
AI-10151	Actual Running Capacity	Percentage	EM Starter AFD Energy Meter
AI-10153	Starter Load Power Factor - Compressor 1A	None	EM Starter AFD
AI-10154	Inboard Bearing Temperature Circuit 1	Temperature	Bearing Temperature Sensor
AI-10155	Outboard Bearing Temperature Circuit 1	Temperature	Bearing Temperature Sensor
AI-10156	Motor Winding Temperature 1 Circuit 1	Temperature	Standard
AI-10157	Motor Winding Temperature 2 Circuit 1	Temperature	Standard
AI-10158	Motor Winding Temperature 3 Circuit 1	Temperature	Standard
AI-10159	AFD Frequency Circuit 1	None	AFD
AI-10160	AFD Transistor Temperature Circuit 1	Temperature	AFD
AI-10161	Drive Average Line Current Circuit 1	Current	AFD w/Line Side Items
AI-10162	Drive Line Frequency Circuit 1	None	AFD w/Line Side Items
AI-10163	Drive Motor Voltage Circuit 1	Voltage	AFD w/Line Side Items
AI-10164	Drive Inverter Base Temperature Circuit 1	Temperature	AFD w/Line Side Items
AI-10165	Drive Rectifier Base Temperature Circuit 1	Temperature	AFD w/Line Side Items

Symbio™ 800 Integration Points List

BACnet®

CenTraVac™

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Object Identifier	Object Name	Units	Configuration Dependency
AI-10166	Drive Output Power Circuit 1	Power, Electrical	AFD
AI-10167	Frequency Command Circuit 1	None	AFD
AI-10168	Outboard Bearing Pad Temperature #1 Ckt1	Temperature	CDHH
AI-10169	Outboard Bearing Pad Temperature #2 Ckt1	Temperature	CDHH
AI-10170	Outboard Bearing Pad Temperature #3 Ckt1	Temperature	CDHH
AI-10171	Restart Inhibit Time Remaining Circuit 1	None	Standard
AI-10172	Chiller Design Capacity	Power, Cooling	Standard
AI-10173	Entering Condenser Water Pressure	Pressure	Condenser Water Flow Differential Pressure Sensors
AI-10174	Entering Evaporator Water Pressure	Pressure	Evaporator Water Flow Differential Pressure Sensors
AI-10175	Leaving Condenser Water Pressure	Pressure	Condenser Water Flow Differential Pressure Sensors
AI-10176	Leaving Evaporator Water Pressure	Pressure	Evaporator Water Flow Differential Pressure Sensors
AI-10177	Condenser Approach Temperature Circuit 1	Temperature	Standard
AI-10178	Evaporator Approach Temperature Circuit 1	Temperature	Standard
AI-10179	Drive DC Bus Voltage Circuit 1	Voltage	Low Voltage AFD
AI-10180	Drive Motor Average Current RLA Circuit 1	Percentage	EM Starter AFD
AI-10182	Active Demand Limit Setpoint	Percentage	Ice Building
AI-10183	Active Demand Limit Setpoint	Percentage	Not Ice Building
AI-10184	Demand Limit Setpoint Status	Percentage	Ice Building
AI-10185	Number of Circuits	None	Standard
AI-10186	Number of Compressors Circuit 1	None	Standard
AI-10187	Number of Compressors Circuit 2	None	Standard
AI-10188	Low Side Oil Pressure - Compressor 2A	Pressure	Standard
AI-10189	High Side Oil Pressure - Compressor 2A	Pressure	Standard
AI-10190	Oil Differential Pressure Circuit 2	Differential Pressure	Standard
AI-10191	Oil Temperature - Compressor 2A	Temperature	Standard
AI-10192	Evaporator Saturated Refrigerant Temperature Circuit 2	Temperature	Standard
AI-10193	Condenser Saturated Refrigerant Temperature Circuit 2	Temperature	Standard
AI-10194	Refrigerant Discharge Temperature - Compressor 2A	Temperature	Compressor Refrigerant Discharge Temperature
AI-10195	Inlet Guide Vane 1 Percent Open Circuit 2	Percentage	Standard
AI-10196	Inlet Guide Vane 2 Percent Open Circuit 2	Percentage	IGV2
AI-10197	Purge Carbon Tank Temperature Circuit 2	Temperature	Purge w/Carbon Tank
AI-10198	Purge Liquid Temperature Circuit 2	Temperature	Purge
AI-10199	Purge Refrigerant Compressor Suction Temperature Circuit 2	Temperature	Purge



Object Identifier	Object Name	Units	Configuration Dependency
AI-10200	Time Until Next Purge Run Circuit 2 (in seconds)	None	Purge
AI-10201	Refrigeration - Life Circuit 2 (in seconds)	None	Purge
AI-10202	Starts - Compressor 2A	None	Standard
AI-10203	Run Time - Compressor 2A (in seconds)	None	Standard
AI-10204	Starter Average Phase Volt Circuit 2	Voltage	EM Starter AFD
AI-10205	Line 1 Current - Compressor 2A	Current	EM Starter AFD
AI-10206	Line 2 Current - Compressor 2A	Current	EM Starter AFD
AI-10207	Line 3 Current - Compressor 2A	Current	EM Starter AFD
AI-10208	Average Line Current Circuit 2	Current	EM Starter AFD
AI-10209	Drive Average Line Current Circuit 2	Current	AFD w/Line Side Items
AI-10210	Starter Load Power Factor - Compressor 2A	None	EM Starter AFD
AI-10211	Inboard Bearing Temperature Circuit 2	Temperature	Bearing Temperature Sensor
AI-10212	Outboard Bearing Temperature Circuit 2	Temperature	Bearing Temperature Sensor
AI-10213	Motor Winding Temperature 1 Circuit 2	Temperature	Standard
AI-10214	Motor Winding Temperature 2 Circuit 2	Temperature	Standard
AI-10215	Motor Winding Temperature 3 Circuit 2	Temperature	Standard
AI-10216	AFD Transistor Temperature Circuit 2	Temperature	AFD
AI-10217	Heat Recovery Entering Water Temp	Temperature	Heat Recovery
AI-10218	Heat Recovery Leaving Water Temp	Temperature	Heat Recovery
AI-10219	Purge Pumpout Chiller On % (7 Days) Circuit 2	Percentage	Purge
AI-10220	Purge Pumpout Chiller Off % (7 Days) Circuit 2	Percentage	Purge
AI-10221	Purge 24 Hour Pumpout Circuit 2 (in seconds)	None	Purge
AI-10222	Phase AB Voltage - Compressor 2A	Voltage	EM Starter AFD
AI-10223	Phase BC Voltage - Compressor 2A	Voltage	EM Starter AFD
AI-10224	Phase CA Voltage - Compressor 2A	Voltage	EM Starter AFD
AI-10225	Purge Pumpout - Life Circuit 2 (in seconds)	None	Purge
AI-10226	Drive Motor Average Current RLA Circuit 2	Percentage	AFD w/Line Side Items
AI-10227	Drive Inverter Base Temperature Circuit 2	Temperature	AFD w/Line Side Items
AI-10228	Drive Rectifier Base Temperature Circuit 2	Temperature	AFD w/Line Side Items
AI-10229	Outboard Bearing Pad Temperature #1 Ckt2	Temperature	CDHH
AI-10230	Outboard Bearing Pad Temperature #2 Ckt2	Temperature	CDHH
AI-10231	Outboard Bearing Pad Temperature #3 Ckt2	Temperature	CDHH
AI-10232	Evaporator Refrigerant Pressure Circuit 2	Pressure	Standard



Object Identifier	Object Name	Units	Configuration Dependency
AI-10233	Condenser Refrigerant Pressure Circuit 2	Pressure	Standard
AI-10234	Differential Refrigerant Pressure Circuit 2	Differential Pressure	Standard
AI-10235	Restart Inhibit Time Remaining Circuit 2	None	Standard
AI-10236	AFD Frequency Circuit 2	None	AFD
AI-10237	Drive Line Frequency Circuit 2	None	AFD w/Line Side Items
AI-10238	Frequency Command Circuit 2	None	AFD
AI-10239	Drive DC Bus Voltage Circuit 2	Voltage	Low Voltage AFD
AI-10240	Drive Output Power Circuit 2	Power, Electrical	AFD
AI-10241	Line 1 Current RLA - Compressor 2A	Percentage	EM Starter AFD
AI-10242	Line 2 Current RLA - Compressor 2A	Percentage	EM Starter AFD
AI-10243	Line 3 Current RLA - Compressor 2A	Percentage	EM Starter AFD
AI-10244	Drive Current Line 1 Circuit 1	Current	AFD w/Line Side Items
AI-10245	Drive Current Line 2 Circuit 1	Current	AFD w/Line Side Items
AI-10246	Drive Current Line 3 Circuit 1	Current	AFD w/Line Side Items
AI-10247	Drive Current Line 1 Circuit 2	Current	AFD w/Line Side Items
AI-10248	Drive Current Line 2 Circuit 2	Current	AFD w/Line Side Items
AI-10249	Drive Current Line 3 Circuit 2	Current	AFD w/Line Side Items
AI-10250	Starter Input Power Consumption Ckt1	Power, Electrical	EM Starter AFD
AI-10251	Starter Input Power Consumption Ckt2	Power, Electrical	EM Starter AFD
AI-10252	Drive Motor Voltage Circuit 2	Voltage	AFD w/Line Side Items
AI-10253	Chiller Control Signal	Percentage	Standard
AI-10254	Head Pressure Control Status	Percentage	Head Pressure Control
AI-10255	AFD Last Diagnostic Code Ckt2	None	AFD
AI-10256	Voltage L1-L2 Circuit 1	Voltage	Energy Meter
AI-10257	Voltage L1-L3 Circuit 1	Voltage	Energy Meter
AI-10258	Voltage L2-L3 Circuit 1	Voltage	Energy Meter
AI-10259	Voltage L1-L2 Circuit 2	Voltage	Energy Meter
AI-10260	Voltage L1-L3 Circuit 2	Voltage	Energy Meter
AI-10261	Voltage L2-L3 Circuit 2	Voltage	Energy Meter
AI-10262	Average Line Voltage Circuit 1	Voltage	Energy Meter
AI-10263	Average Line Voltage Circuit 2	Voltage	Energy Meter
AI-10264	Line Current L1 Circuit 1	Current	Energy Meter
AI-10265	Line Current L2 Circuit 1	Current	Energy Meter



Object Identifier	Object Name	Units	Configuration Dependency
AI-10266	Line Current L3 Circuit 1	Current	Energy Meter
AI-10267	Line Current L1 Circuit 2	Current	Energy Meter
AI-10268	Line Current L2 Circuit 2	Current	Energy Meter
AI-10269	Line Current L3 Circuit 2	Current	Energy Meter
AI-10270	Unit Average Line Current Circuit 1	Current	Energy Meter
AI-10271	Unit Average Line Current Circuit 2	Current	Energy Meter
AI-10272	Line Frequency Circuit 1	None	Energy Meter
AI-10273	Line Frequency Circuit 2	None	Energy Meter
AI-10274	Power Factor Circuit 1	None	Energy Meter
AI-10275	Power Factor Circuit 2	None	Energy Meter
AI-10276	Power Demand Circuit 1	Power, Electrical	Energy Meter
AI-10277	Power Demand Circuit 2	Power, Electrical	Energy Meter
AI-10278	Total Real Power	Power, Electrical	Energy Meter
AI-10279	Unit Power Consumption	Power, Electrical	Energy Meter
AI-10280	Energy Consumption	Energy, Electrical	Energy Meter
AI-10281	Energy Consumption Lifetime	Energy, Electrical	Energy Meter
AI-10282	Condenser Approach Temperature Circuit 2	Temperature	Standard
AI-10283	Evaporator Approach Temperature Circuit 2	Temperature	Standard



Object Identifier	Object Name	Units	Configuration Dependency
AV-10100	Chilled Water Setpoint	Temperature	Standard
AV-10101	Demand Limit Setpoint	Percent	Standard
AV-10102	Hot Water Setpoint	Temperature	Hot Water Control
AV-10103	Base Loading Setpoint	Percent	Base Loading



Object Identifier	Object Name	Object States	Configuration Dependency
BI-10101	Manual Override Exists	0 = Off 1 = On	Standard
BI-10102	Base Loading Request Active	0 = Inactive 1 = Active	Base Loading
BI-10103	Run Enabled	0 = Run Not Enabled 1 = Run Enabled	Standard
BI-10104	Local Setpoint Control	0 = Remote Control 1 = Local Control	Standard
BI-10105	Maximum Capacity	0 = Off 1 = On	Standard
BI-10106	Capacity Limited	0 = Not Limited 1 = Limited	Standard
BI-10107	Head Relief Request	0 = Off 1 = On	Standard
BI-10108	Purge Compressor Relay Circuit 1	0 = Off 1 = On	Purge
BI-10109	Pump Out Relay Circuit 1	0 = Off 1 = On	Purge
BI-10110	Purge Regenerating Valve Solenoid Circuit 1	0 = Off 1 = On	Purge w/Carbon Tank
BI-10111	Chiller Running State	0 = Off 1 = On	Standard
BI-10112	Evaporator Water Pump Request	0 = Off 1 = On	Standard
BI-10113	Evaporator Water Flow Status	0 = No Flow 1 = Flow	Standard
BI-10114	Condenser Water Pump Request	0 = Off 1 = On	Standard
BI-10115	Condenser Water Flow Status	0 = No Flow 1 = Flow	Standard
BI-10116	Diagnostic Present	0 = Normal 1 = In Alarm	Standard
BI-10117	Diagnostic Shutdown Present	0 = Normal 1 = In Alarm	Standard
BI-10118	Diagnostic: Manual Reset Required	0 = Normal 1 = In Alarm	Standard
BI-10119	Diagnostic: Local Manual Reset Required	0 = Normal 1 = In Alarm	Standard
BI-10120	Diagnostic Present: Information	0 = Normal 1 = In Alarm	Standard
BI-10121	Diagnostic Present: Advisory	0 = Normal 1 = In Alarm	Standard
BI-10122	Diagnostic Present: Critical	0 = Normal 1 = In Alarm	Standard
BI-10123	Diagnostic Present: Service Required	0 = Normal 1 = In Alarm	Standard



Object Identifier	Object Name	Object States	Configuration Dependency
BI-10124	Compressor 1A Status	0 = Off 1 = Running	Standard
BI-10125	Front Panel Auto Stop	0 = Stop 1 = Auto	Standard
BI-10126	External Auto Stop Input Status	0 = Stop 1 = Auto	Standard
BI-10127	Purge Compressor Relay Circuit 2	0 = Off 1 = On	Purge
BI-10128	Purge Regenerating Valve Solenoid Circuit 2	0 = Off 1 = On	Purge w/Carbon Tank
BI-10130	Pump Out Relay Circuit 2	0 = Off 1 = On	Purge
BI-10131	Compressor 2A Status	0 = Off 1 = Running	Standard
BI-10132	Emergency Stop	0 = Auto 1 = Emergency Stop - Manual Reset Required	Standard
BI-10133	Circuit 1 Cooling Available	0 = No 1 = Yes	Standard
BI-10134	Circuit 2 Cooling Available	0 = No 1 = Yes	Standard
BI-10135	Circuit 1 Lockout Front Panel	0 = Normal 1 = Locked Out	Standard
BI-10136	Circuit 2 Lockout Front Panel	0 = Normal 1 = Locked Out	Standard
BI-10137	Circuit 1 Lockout External	0 = Normal 1 = Locked Out	Standard
BI-10138	Circuit 2 Lockout External	0 = Normal 1 = Locked Out	Standard
BI-10139	Circuit 1 Lockout Active	0 = Normal 1 = Locked Out	Standard
BI-10140	Circuit 2 Lockout Active	0 = Normal 1 = Locked Out	Standard



Object Identifier	Object Name	Object States	Configuration Dependency
BI-11000	Diagnostic: AFD Comm Loss: Main Processor Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
BI-11001	Diagnostic: AFD Comm Loss: Main Processor Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
BI-11002	Diagnostic: AFD Control Board Memory Error Type 2 Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11003	Diagnostic: AFD Control Board Memory Error Type 2 Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11004	Diagnostic: AFD DPI Communication Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11005	Diagnostic: AFD DPI Communication Failure Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11006	Diagnostic: AFD Fatal Software Error Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11007	Diagnostic: AFD Fatal Software Error Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11008	Diagnostic: AFD General Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
BI-11009	Diagnostic: AFD General Failure Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
BI-11010	Diagnostic: AFD Ground Fault Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
BI-11011	Diagnostic: AFD Ground Fault Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
BI-11012	Diagnostic: AFD High Bus Voltage Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11013	Diagnostic: AFD High Bus Voltage Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11014	Diagnostic: AFD High Temperature Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11015	Diagnostic: AFD High Temperature Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11016	Diagnostic: AFD I/O Board Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11017	Diagnostic: AFD I/O Board Failure Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11018	Diagnostic: AFD Instantaneous Current Overload Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
BI-11019	Diagnostic: AFD Instantaneous Current Overload Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
BI-11020	Diagnostic: AFD Interrupt Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
BI-11021	Diagnostic: AFD Interrupt Failure Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
BI-11022	Diagnostic: AFD Motor Current Overload Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)



Object Identifier	Object Name	Object States	Configuration Dependency
BI-11023	Diagnostic: AFD Motor Current Overload Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
BI-11024	Diagnostic: AFD Motor Short Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11025	Diagnostic: AFD Motor Short Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11026	Diagnostic: AFD Output Phase Loss Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
BI-11027	Diagnostic: AFD Output Phase Loss Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
BI-11028	Diagnostic: AFD Power Intfc Controller Board Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11029	Diagnostic: AFD Power Intfc Controller Board Failure Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11030	Diagnostic: AFD Power Loss Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
BI-11031	Diagnostic: AFD Power Loss Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
BI-11032	Diagnostic: AFD Power Structure Board Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11033	Diagnostic: AFD Power Structure Board Failure Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11034	Diagnostic: AFD RS485 Board Memory Error Type 2 Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11035	Diagnostic: AFD RS485 Board Memory Error Type 2 Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11038	Diagnostic: At Speed Input Opened Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Non-Comm AFD Solid State Starter
BI-11039	Diagnostic: At Speed Input Opened Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Non-Comm AFD Solid State Starter
BI-11040	Diagnostic: At Speed Input Shorted Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Non-Comm AFD Solid State Starter
BI-11041	Diagnostic: At Speed Input Shorted Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Non-Comm AFD Solid State Starter
BI-11042	Diagnostic: Check Clock	0 = Normal 1 = In Alarm	Standard
BI-11043	Diagnostic: Check Oil Filter Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11044	Diagnostic: Check Oil Filter Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11045	Diagnostic: Check Oil Heater Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11046	Diagnostic: Check Oil Heater Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11047	Comm Loss: Adaptive Frequency Drive Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)



Object Identifier	Object Name	Object States	Configuration Dependency
BI-11048	Comm Loss: Adaptive Frequency Drive Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
BI-11049	Comm Loss: AFD Speed Signal VDC Output Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Non-Comm AFD
BI-11050	Comm Loss: AFD Speed Signal VDC Output Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Non-Comm AFD
BI-11051	Comm Loss: Compressor Motor % RLA Output Circuit 1	0 = Normal 1 = In Alarm	% RLA Output
BI-11052	Comm Loss: Compressor Motor % RLA Output Circuit 2	0 = Normal 1 = In Alarm	% RLA Output
BI-11053	Comm Loss: Cond Diff Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement
BI-11054	Comm Loss: Cond Head Press Cntrl Output	0 = Normal 1 = In Alarm	Head Pressure Control
BI-11055	Comm Loss: Cond High Pressure Cutout Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11056	Comm Loss: Cond High Pressure Cutout Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11057	Comm Loss: Cond Refrigerant Pressure Circuit 1	0 = Normal 1 = In Alarm	Condenser Pressure Sensor
BI-11058	Comm Loss: Cond Refrigerant Pressure Circuit 2	0 = Normal 1 = In Alarm	Condenser Pressure Sensor
BI-11059	Comm Loss: Cond Rfgt Pressure Output Circuit 1	0 = Normal 1 = In Alarm	Condenser Refrigerant Pressure Output
BI-11060	Comm Loss: Cond Rfgt Pressure Output Circuit 2	0 = Normal 1 = In Alarm	Condenser Refrigerant Pressure Output
BI-11061	Comm Loss: Cond Saturated Rfgt Temp Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11062	Comm Loss: Cond Saturated Rfgt Temp Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11063	Comm Loss: Condenser Entering Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensors
BI-11064	Comm Loss: Condenser Entering Water Temp	0 = Normal 1 = In Alarm	Standard
BI-11065	Comm Loss: Condenser Leaving Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensors
BI-11066	Comm Loss: Condenser Leaving Water Temp	0 = Normal 1 = In Alarm	Standard
BI-11067	Comm Loss: Condenser Liquid Level Sensor Circuit 1	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11068	Comm Loss: Condenser Liquid Level Sensor Circuit 2	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11069	Comm Loss: Condenser Water Flow Switch	0 = Normal 1 = In Alarm	Standard
BI-11070	Comm Loss: Condenser Water Pump Relay	0 = Normal 1 = In Alarm	Standard



Object Identifier	Object Name	Object States	Configuration Dependency
BI-11071	Comm Loss: Cprsr Discharge Rfgt Temp Circuit 1	0 = Normal 1 = In Alarm	Compressor Refrigerant Discharge Temp Sensor
BI-11072	Comm Loss: Cprsr Discharge Rfgt Temp Circuit 2	0 = Normal 1 = In Alarm	Compressor Refrigerant Discharge Temp Sensor
BI-11073	Comm Loss: Economizer Bypass Valve Circuit 1	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11074	Comm Loss: Economizer Bypass Valve Circuit 2	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11075	Comm Loss: Emergency Stop	0 = Normal 1 = In Alarm	Standard
BI-11076	Comm Loss: Energy Meter 1 Circuit 1	0 = Normal 1 = In Alarm	Energy Meter
BI-11077	Comm Loss: Energy Meter 2 Circuit 2	0 = Normal 1 = In Alarm	Energy Meter
BI-11078	Comm Loss: Evap Diff Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement
BI-11079	Comm Loss: Evap Entering Water Temp	0 = Normal 1 = In Alarm	Standard
BI-11080	Comm Loss: Evap Leaving Water Temp	0 = Normal 1 = In Alarm	Standard
BI-11081	Comm Loss: Evap Refrigerant Pressure Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11082	Comm Loss: Evap Refrigerant Pressure Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11083	Comm Loss: Evap Sat Refrig Temp Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11084	Comm Loss: Evap Sat Refrig Temp Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11085	Comm Loss: Evaporator Entering Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Dual Pressure Sensors
BI-11086	Comm Loss: Evaporator Leaving Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Dual Pressure Sensors
BI-11087	Comm Loss: Evaporator Water Flow Switch	0 = Normal 1 = In Alarm	Standard
BI-11088	Comm Loss: Evaporator Water Pump Relay	0 = Normal 1 = In Alarm	Standard
BI-11089	Comm Loss: Ext Base Loading Command	0 = Normal 1 = In Alarm	Base Loading
BI-11090	Comm Loss: Ext Base Loading Setpoint	0 = Normal 1 = In Alarm	Base Loading
BI-11091	Comm Loss: Ext Chilled/Hot Water Setpoint	0 = Normal 1 = In Alarm	External Chilled Water Setpoint
BI-11092	Comm Loss: Ext Demand Limit Setpoint	0 = Normal 1 = In Alarm	External Demand Limit Setpoint
BI-11093	Comm Loss: External Auto/Stop	0 = Normal 1 = In Alarm	Standard



Object Identifier	Object Name	Object States	Configuration Dependency
BI-11094	Comm Loss: External Ckt Lockout Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11095	Comm Loss: External Ckt Lockout Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11097	Comm Loss: External Hot Water Command	0 = Normal 1 = In Alarm	Hot Water Control
BI-11098	Comm Loss: External Ice Building Command	0 = Normal 1 = In Alarm	Ice Building
BI-11099	Comm Loss: Generator Fault Input Circuit 1	0 = Normal 1 = In Alarm	Engine/Generator
BI-11100	Comm Loss: Generator Fault Input Circuit 2	0 = Normal 1 = In Alarm	Engine/Generator
BI-11101	Comm Loss: Generator Speed Signal Output Circuit 1	0 = Normal 1 = In Alarm	Engine/Generator
BI-11102	Comm Loss: Generator Speed Signal Output Circuit 2	0 = Normal 1 = In Alarm	Engine/Generator
BI-11103	Comm Loss: Generator Start/Stop Relay Circuit 1	0 = Normal 1 = In Alarm	Engine/Generator
BI-11104	Comm Loss: Generator Start/Stop Relay Circuit 2	0 = Normal 1 = In Alarm	Engine/Generator
BI-11105	Comm Loss: Generator Up To Speed Input Circuit 1	0 = Normal 1 = In Alarm	Engine/Generator
BI-11106	Comm Loss: Generator Up To Speed Input Circuit 2	0 = Normal 1 = In Alarm	Engine/Generator
BI-11107	Comm Loss: Heat Recovery Entering Water Temp	0 = Normal 1 = In Alarm	Heat Recovery
BI-11108	Comm Loss: Heat Recovery Leaving Water Temp	0 = Normal 1 = In Alarm	Heat Recovery
BI-11112	Comm Loss: Ice Building Relay	0 = Normal 1 = In Alarm	Ice Building
BI-11113	Comm Loss: IGV First Stage Actuator Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11114	Comm Loss: IGV First Stage Actuator Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11115	Comm Loss: IGV Second Stage Actuator Circuit 1	0 = Normal 1 = In Alarm	IGV Actuator - Dual
BI-11116	Comm Loss: IGV Second Stage Actuator Circuit 2	0 = Normal 1 = In Alarm	IGV Actuator - Dual
BI-11117	Comm Loss: Inboard Bearing Temperature Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensors
BI-11118	Comm Loss: Inboard Bearing Temperature Circuit 2	0 = Normal 1 = In Alarm	Bearing Temp Sensors
BI-11119	Comm Loss: Motor Winding Temperature 1 Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11120	Comm Loss: Motor Winding Temperature 1 Circuit 2	0 = Normal 1 = In Alarm	Standard



Object Identifier	Object Name	Object States	Configuration Dependency
BI-11121	Comm Loss: Motor Winding Temperature 2 Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11122	Comm Loss: Motor Winding Temperature 2 Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11123	Comm Loss: Motor Winding Temperature 3 Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11124	Comm Loss: Motor Winding Temperature 3 Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11125	Comm Loss: Oil Cooler Solenoid Circuit 1	0 = Normal 1 = In Alarm	Oil Cooler Solenoid Valve
BI-11126	Comm Loss: Oil Cooler Solenoid Circuit 2	0 = Normal 1 = In Alarm	Oil Cooler Solenoid Valve
BI-11127	Comm Loss: Oil Pump Discharge Pressure Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11128	Comm Loss: Oil Pump Discharge Pressure Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11129	Comm Loss: Oil Tank Heater 4E1 Relay Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11130	Comm Loss: Oil Tank Heater 4E1 Relay Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11131	Comm Loss: Oil Tank Heater 4E2 Relay Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11132	Comm Loss: Oil Tank Heater 4E2 Relay Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11133	Comm Loss: Oil Tank Heater Relay Circuit 1	0 = Normal 1 = In Alarm	CDHF,G
BI-11134	Comm Loss: Oil Tank Heater Relay Circuit 2	0 = Normal 1 = In Alarm	CDHF,G
BI-11135	Comm Loss: Oil Tank Pressure Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11136	Comm Loss: Oil Tank Pressure Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11137	Comm Loss: Oil Tank Temperature Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11138	Comm Loss: Oil Tank Temperature Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11139	Comm Loss: Oil Vent Line Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11140	Comm Loss: Oil Vent Line Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11141	Comm Loss: Oil/Refrigerant Pump Relay Circuit 1	0 = Normal 1 = In Alarm	CDHF,G
BI-11142	Comm Loss: Oil/Refrigerant Pump Relay Circuit 2	0 = Normal 1 = In Alarm	CDHF,G
BI-11143	Comm Loss: Outboard Bearing Pad Temp 1 Circuit 1	0 = Normal 1 = In Alarm	CDHH



Object Identifier	Object Name	Object States	Configuration Dependency
BI-11144	Comm Loss: Outboard Bearing Pad Temp 1 Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11145	Comm Loss: Outboard Bearing Pad Temp 2 Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11146	Comm Loss: Outboard Bearing Pad Temp 2 Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11147	Comm Loss: Outboard Bearing Pad Temp 3 Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11148	Comm Loss: Outboard Bearing Pad Temp 3 Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11149	Comm Loss: Outboard Bearing Temperature Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensors
BI-11150	Comm Loss: Outboard Bearing Temperature Circuit 2	0 = Normal 1 = In Alarm	Bearing Temp Sensors
BI-11151	Comm Loss: Outdoor Air Temperature	0 = Normal 1 = In Alarm	Outdoor Air Temp Sensor
BI-11152	Comm Loss: Programmable Relay Board 1	0 = Normal 1 = In Alarm	Operating Status Programmable Relays
BI-11153	Comm Loss: Programmable Relay Board 2	0 = Normal 1 = In Alarm	Operating Status Programmable Relays
BI-11154	Comm Loss: Purge Alarm Relay Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11155	Comm Loss: Purge Alarm Relay Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11156	Comm Loss: Purge Carbon Tank Heater Rly Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11157	Comm Loss: Purge Carbon Tank Heater Rly Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11158	Comm Loss: Purge Carbon Tank Temperature Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11159	Comm Loss: Purge Carbon Tank Temperature Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11160	Comm Loss: Purge Condensing Unit Relay Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11161	Comm Loss: Purge Condensing Unit Relay Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11162	Comm Loss: Purge Cprsr Suction Rfgt Temp Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11163	Comm Loss: Purge Cprsr Suction Rfgt Temp Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11164	Comm Loss: Purge Exhaust Solenoid Output Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11165	Comm Loss: Purge Exhaust Solenoid Output Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11166	Comm Loss: Purge Liquid Level Switch Circuit 1	0 = Normal 1 = In Alarm	Purge



Object Identifier	Object Name	Object States	Configuration Dependency
BI-11167	Comm Loss: Purge Liquid Level Switch Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11168	Comm Loss: Purge Liquid Temperature Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11169	Comm Loss: Purge Liquid Temperature Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11170	Comm Loss: Purge Pumpout Relay Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11171	Comm Loss: Purge Pumpout Relay Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11172	Comm Loss: Purge Pumpout Solenoid Output Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11173	Comm Loss: Purge Pumpout Solenoid Output Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11174	Comm Loss: Purge Regen Solenoid Relay Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11175	Comm Loss: Purge Regen Solenoid Relay Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11176	Comm Loss: Refrigerant Monitor Input	0 = Normal 1 = In Alarm	Refrigerant Monitor
BI-11177	Comm Loss: Starter Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11178	Comm Loss: Starter Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11179	Comm Loss: Starter Fault Circuit 1	0 = Normal 1 = In Alarm	Solid State Starters Remote Mount Non-Comm AFD
BI-11180	Comm Loss: Starter Fault Circuit 2	0 = Normal 1 = In Alarm	Solid State Starters Remote Mount Non-Comm AFD
BI-11181	Comm Loss: Unit Purge Alarm Relay	0 = Normal 1 = In Alarm	Purge
BI-11182	Diagnostic: Compressor Did Not Accelerate: Shutdown Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11183	Diagnostic: Compressor Did Not Accelerate: Shutdown Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11184	Diagnostic: Cond Saturated Refrigerant Temp Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11185	Diagnostic: Cond Saturated Refrigerant Temp Sensor Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11186	Diagnostic: Condenser Diff Water Pressure Xdcr	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Differential Pressure
BI-11187	Diagnostic: Condenser Entering Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensors



Object Identifier	Object Name	Object States	Configuration Dependency
BI-11188	Diagnostic: Condenser Entering Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
BI-11189	Diagnostic: Condenser High Pressure Cutout Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11190	Diagnostic: Condenser High Pressure Cutout Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11191	Diagnostic: Condenser Leaving Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensors
BI-11192	Diagnostic: Condenser Leaving Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
BI-11193	Diagnostic: Condenser Liquid Level Sensor Circuit 1	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11194	Diagnostic: Condenser Liquid Level Sensor Circuit 2	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11195	Diagnostic: Condenser Refrigerant Pressure Xdcr Circuit 1	0 = Normal 1 = In Alarm	Cond Pressure Sensor
BI-11196	Diagnostic: Condenser Refrigerant Pressure Xdcr Circuit 2	0 = Normal 1 = In Alarm	Cond Pressure Sensor
BI-11197	Diagnostic: Condenser Water Flow Lost	0 = Normal 1 = In Alarm	Standard
BI-11198	Diagnostic: Condenser Water Flow Overdue	0 = Normal 1 = In Alarm	Standard
BI-11199	Diagnostic: Cprsr Did Not Accelerate: Transition Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11200	Diagnostic: Cprsr Did Not Accelerate: Transition Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11201	Diagnostic: Cprsr Discharge Refrigerant Temp Sensor Circuit 1	0 = Normal 1 = In Alarm	Compressor Refrigerant Discharge Temp Sensor
BI-11202	Diagnostic: Cprsr Discharge Refrigerant Temp Sensor Circuit 2	0 = Normal 1 = In Alarm	Compressor Refrigerant Discharge Temp Sensor
BI-11203	Diagnostic: Differential Oil Pressure Overdue Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11204	Diagnostic: Differential Oil Pressure Overdue Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11206	Diagnostic: Emergency Stop	0 = Normal 1 = In Alarm	Standard
BI-11207	Diagnostic: Evap Saturated Refrigerant Temp Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11208	Diagnostic: Evap Saturated Refrigerant Temp Sensor Circuit 2	0 = Normal 1 = In Alarm	standard
BI-11209	Diagnostic: Evaporator Diff Water Pressure Xdcr	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Differential Pressure
BI-11210	Diagnostic: Evaporator Entering Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Dual Pressure Sensors



Object Identifier	Object Name	Object States	Configuration Dependency
BI-11211	Diagnostic: Evaporator Entering Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
BI-11212	Diagnostic: Evaporator Leaving Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Dual Pressure Sensors
BI-11213	Diagnostic: Evaporator Leaving Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
BI-11214	Diagnostic: Evaporator Refrigerant Pressure Xdcr Circuit 1	0 = Normal 1 = In Alarm	Evap Pressure Sensor
BI-11215	Diagnostic: Evaporator Refrigerant Pressure Xdcr Circuit 2	0 = Normal 1 = In Alarm	Evap Pressure Sensor
BI-11216	Diagnostic: Evaporator Water Flow Lost	0 = Normal 1 = In Alarm	Standard
BI-11217	Diagnostic: Evaporator Water Flow Overdue	0 = Normal 1 = In Alarm	Standard
BI-11218	Diagnostic: Excessive Loss of Communication	0 = Normal 1 = In Alarm	Standard
BI-11221	Diagnostic: Extended Compressor Surge Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11222	Diagnostic: Extended Compressor Surge Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11223	Diagnostic: External Base Loading Setpoint	0 = Normal 1 = In Alarm	Base Loading
BI-11224	Diagnostic: External Chilled/Hot Water Setpoint	0 = Normal 1 = In Alarm	External Chilled Water Setpoint
BI-11225	Diagnostic: External Demand Limit Setpoint	0 = Normal 1 = In Alarm	External Demand Limit Setpoint
BI-11230	Diagnostic: Generator Fault Relay Open Circuit 1	0 = Normal 1 = In Alarm	Engine/Generator
BI-11231	Diagnostic: Generator Fault Relay Open Circuit 2	0 = Normal 1 = In Alarm	Engine/Generator
BI-11232	Diagnostic: Generator Ready Signal Overdue Circuit 1	0 = Normal 1 = In Alarm	Engine/Generator
BI-11233	Diagnostic: Generator Ready Signal Overdue Circuit 2	0 = Normal 1 = In Alarm	Engine/Generator
BI-11234	Diagnostic: Heat Recovery Entering Water Temp Sensor	0 = Normal 1 = In Alarm	Heat Recovery
BI-11235	Diagnostic: Heat Recovery Leaving Water Temp Sensor	0 = Normal 1 = In Alarm	Heat Recovery
BI-11236	Diagnostic: High Cprsr Rfght Discharge Temperature Circuit 1	0 = Normal 1 = In Alarm	Compressor Refrigerant Discharge Temp Sensor
BI-11237	Diagnostic: High Cprsr Rfght Discharge Temperature Circuit 2	0 = Normal 1 = In Alarm	Compressor Refrigerant Discharge Temp Sensor
BI-11238	Diagnostic: High Differential Refrigerant Pressure Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11239	Diagnostic: High Differential Refrigerant Pressure Circuit 2	0 = Normal 1 = In Alarm	Standard

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Object Identifier	Object Name	Object States	Configuration Dependency
BI-11240	Diagnostic: High Evaporator Refrigerant Temperature Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11241	Diagnostic: High Evaporator Refrigerant Temperature Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11242	Diagnostic: High Evaporator Water Temperature	0 = Normal 1 = In Alarm	Standard
BI-11243	Diagnostic: High Inboard Bearing Temperature Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensors
BI-11244	Diagnostic: High Inboard Bearing Temperature Circuit 2	0 = Normal 1 = In Alarm	Bearing Temp Sensors
BI-11245	Diagnostic: High Motor Winding Temperature 1 Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11246	Diagnostic: High Motor Winding Temperature 1 Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11247	Diagnostic: High Motor Winding Temperature 2 Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11248	Diagnostic: High Motor Winding Temperature 2 Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11249	Diagnostic: High Motor Winding Temperature 3 Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11250	Diagnostic: High Motor Winding Temperature 3 Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11251	Diagnostic: High Oil Temperature Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11252	Diagnostic: High Oil Temperature Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11253	Diagnostic: High Outboard Bearing Pad Temperature 1 Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11254	Diagnostic: High Outboard Bearing Pad Temperature 1 Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11255	Diagnostic: High Outboard Bearing Pad Temperature 2 Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11256	Diagnostic: High Outboard Bearing Pad Temperature 2 Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11257	Diagnostic: High Outboard Bearing Pad Temperature 3 Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11258	Diagnostic: High Outboard Bearing Pad Temperature 3 Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11259	Diagnostic: High Outboard Bearing Temp Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensors
BI-11260	Diagnostic: High Outboard Bearing Temp Circuit 2	0 = Normal 1 = In Alarm	Bearing Temp Sensors
BI-11261	Diagnostic: High Vacuum Lockout Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11262	Diagnostic: High Vacuum Lockout Circuit 2	0 = Normal 1 = In Alarm	Standard



Object Identifier	Object Name	Object States	Configuration Dependency
BI-11266	Diagnostic: HPC/High AFD Heat Sink Water Pressure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11267	Diagnostic: HPC/High AFD Heat Sink Water Pressure Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
BI-11268	Diagnostic: Inboard Bearing Temp Sensor Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensors
BI-11269	Diagnostic: Inboard Bearing Temp Sensor Circuit 2	0 = Normal 1 = In Alarm	Bearing Temp Sensors
BI-11270	Diagnostic: Inverted Condenser Water Temperature	0 = Normal 1 = In Alarm	Standard
BI-11271	Diagnostic: Inverted Evaporator Water Temperature	0 = Normal 1 = In Alarm	Standard
BI-11272	Diagnostic: Loss of Economizer Bypass Valve Control Circuit 1	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11273	Diagnostic: Loss of Economizer Bypass Valve Control Circuit 2	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11274	Diagnostic: Low Differential Oil Pressure Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11275	Diagnostic: Low Differential Oil Pressure Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11276	Diagnostic: Low Evap Leaving Water Temp: Unit Off	0 = Normal 1 = In Alarm	Standard
BI-11277	Diagnostic: Low Evap Leaving Water Temp: Unit On	0 = Normal 1 = In Alarm	Standard
BI-11278	Diagnostic: Low Evaporator Refrigerant Temperature Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11279	Diagnostic: Low Evaporator Refrigerant Temperature Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11280	Diagnostic: Low Evaporator Water Flow	0 = Normal 1 = In Alarm	Evap Water Flow Measurement
BI-11281	Diagnostic: Low Oil Temperature Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11282	Diagnostic: Low Oil Temperature Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11283	Diagnostic: Momentary Power Loss Circuit 1	0 = Normal 1 = In Alarm	Momentary Power Loss
BI-11284	Diagnostic: Momentary Power Loss Circuit 2	0 = Normal 1 = In Alarm	Momentary Power Loss
BI-11285	Diagnostic: Motor Current Overload Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11286	Diagnostic: Motor Current Overload Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11287	Diagnostic: Motor Winding Temperature 1 Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard



Object Identifier	Object Name	Object States	Configuration Dependency
BI-11288	Diagnostic: Motor Winding Temperature 1 Sensor Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11289	Diagnostic: Motor Winding Temperature 2 Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11290	Diagnostic: Motor Winding Temperature 2 Sensor Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11291	Diagnostic: Motor Winding Temperature 3 Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11292	Diagnostic: Motor Winding Temperature 3 Sensor Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11293	Diagnostic: MP: Invalid Configuration	0 = Normal 1 = In Alarm	Standard
BI-11294	Diagnostic: MP: Reset Has Occurred	0 = Normal 1 = In Alarm	Standard
BI-11295	Diagnostic: Oil Pressure Sensor Calibration Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11296	Diagnostic: Oil Pressure Sensor Calibration Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11297	Diagnostic: Oil Pump Discharge Pressure Transducer Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11298	Diagnostic: Oil Pump Discharge Pressure Transducer Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11299	Diagnostic: Oil Tank Pressure Transducer Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11300	Diagnostic: Oil Tank Pressure Transducer Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11301	Diagnostic: Oil Tank Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11302	Diagnostic: Oil Tank Temperature Sensor Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11303	Diagnostic: Outboard Bearing Pad Temp 1 Sensor Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11304	Diagnostic: Outboard Bearing Pad Temp 1 Sensor Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11305	Diagnostic: Outboard Bearing Pad Temp 2 Sensor Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11306	Diagnostic: Outboard Bearing Pad Temp 2 Sensor Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11307	Diagnostic: Outboard Bearing Pad Temp 3 Sensor Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11308	Diagnostic: Outboard Bearing Pad Temp 3 Sensor Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11309	Diagnostic: Outboard Bearing Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11310	Diagnostic: Outboard Bearing Temperature Sensor Circuit 2	0 = Normal 1 = In Alarm	CDHH



Object Identifier	Object Name	Object States	Configuration Dependency
BI-11311	Diagnostic: Outdoor Air Temperature Sensor	0 = Normal 1 = In Alarm	Outdoor Air Temp Sensor
BI-11312	Diagnostic: Over Voltage Circuit 1	0 = Normal 1 = In Alarm	Line Voltage Sensing
BI-11313	Diagnostic: Over Voltage Circuit 2	0 = Normal 1 = In Alarm	Line Voltage Sensing
BI-11314	Diagnostic: Phase Loss Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11315	Diagnostic: Phase Loss Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11316	Diagnostic: Phase Reversal Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11317	Diagnostic: Phase Reversal Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11318	Diagnostic: Power Loss Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11319	Diagnostic: Power Loss Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11320	Diagnostic: Purge Carbon Regen Temp Limit Exceeded Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11321	Diagnostic: Purge Carbon Regen Temp Limit Exceeded Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11322	Diagnostic: Purge Carbon Regen Temp Not Satisfied Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11323	Diagnostic: Purge Carbon Regen Temp Not Satisfied Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11324	Diagnostic: Purge Carbon Regen Temperature Too Low Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11325	Diagnostic: Purge Carbon Regen Temperature Too Low Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11326	Diagnostic: Purge Carbon Tank Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11327	Diagnostic: Purge Carbon Tank Temperature Sensor Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11328	Diagnostic: Purge Cprsr Suction Rfgt Temp Sensor Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11329	Diagnostic: Purge Cprsr Suction Rfgt Temp Sensor Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11330	Diagnostic: Purge Daily Pumpout Limit Exceeded Circuit 1	0 = Normal 1 = In Alarm	Purge



Object Identifier	Object Name	Object States	Configuration Dependency
BI-11331	Diagnostic: Purge Daily Pumpout Limit Exceeded Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11332	Diagnostic: Purge Liquid Level Too High Continuously Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11333	Diagnostic: Purge Liquid Level Too High Continuously Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11334	Diagnostic: Purge Liquid Level Too High Warning Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11335	Diagnostic: Purge Liquid Level Too High Warning Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11336	Diagnostic: Purge Liquid Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11337	Diagnostic: Purge Liquid Temperature Sensor Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11338	Diagnostic: Purge Regen Cooldown Temp Too High Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11339	Diagnostic: Purge Regen Cooldown Temp Too High Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11341	Diagnostic: Refrigerant Monitor Input	0 = Normal 1 = In Alarm	Refrigerant Monitor
BI-11342	Diagnostic: Restart Inhibit Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11343	Diagnostic: Restart Inhibit Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11344	Diagnostic: Severe Current Unbalance Circuit 1	0 = Normal 1 = In Alarm	Line Voltage Sensing
BI-11345	Diagnostic: Severe Current Unbalance Circuit 2	0 = Normal 1 = In Alarm	Line Voltage Sensing
BI-11346	Diagnostic: Software Error 1001: Call Trane Service	0 = Normal 1 = In Alarm	Standard
BI-11347	Diagnostic: Software Error 1004: Call Trane Service	0 = Normal 1 = In Alarm	Standard
BI-11348	Diagnostic: Starter Comm Loss: Main Processor Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11349	Diagnostic: Starter Comm Loss: Main Processor Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11350	Diagnostic: Starter Contactor Interrupt Failure Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11351	Diagnostic: Starter Contactor Interrupt Failure Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD

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Object Identifier	Object Name	Object States	Configuration Dependency
BI-11352	Diagnostic: Starter Did Not Fully Accelerate Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11353	Diagnostic: Starter Did Not Fully Accelerate Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11354	Diagnostic: Starter Did Not Transition Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11355	Diagnostic: Starter Did Not Transition Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11356	Diagnostic: Starter Dry Run Test Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11357	Diagnostic: Starter Dry Run Test Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11358	Diagnostic: Starter Failed to Arm/ Start Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11359	Diagnostic: Starter Failed to Arm/ Start Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11360	Diagnostic: Starter Fault Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11361	Diagnostic: Starter Fault Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11362	Diagnostic: Starter Fault Type I Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11363	Diagnostic: Starter Fault Type I Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11364	Diagnostic: Starter Fault Type II Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11365	Diagnostic: Starter Fault Type II Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11366	Diagnostic: Starter Fault Type III Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD



Object Identifier	Object Name	Object States	Configuration Dependency
BI-11367	Diagnostic: Starter Fault Type III Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11368	Diagnostic: Starter Module Memory Error Type 1 Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11369	Diagnostic: Starter Module Memory Error Type 1 Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11370	Diagnostic: Starter Module Memory Error Type 2 Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11371	Diagnostic: Starter Module Memory Error Type 2 Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11372	Diagnostic: Transition Complete Input Opened Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11373	Diagnostic: Transition Complete Input Opened Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11374	Diagnostic: Transition Complete Input Shorted Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11375	Diagnostic: Transition Complete Input Shorted Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11376	Diagnostic: Under Voltage Circuit 1	0 = Normal 1 = In Alarm	Line Voltage Sensing
BI-11377	Diagnostic: Under Voltage Circuit 2	0 = Normal 1 = In Alarm	Line Voltage Sensing
BI-11378	Diagnostic: Unexpected Differential Oil Pressure Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11379	Diagnostic: Unexpected Differential Oil Pressure Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11380	Diagnostic: Unexpected Starter Shutdown Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11381	Diagnostic: Unexpected Starter Shutdown Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11382	Diagnostic: AFD Bus Over Voltage Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
BI-11383	Diagnostic: AFD Bus Over Voltage Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)



Object Identifier	Object Name	Object States	Configuration Dependency
BI-11384	Diagnostic: AFD Bus Under Voltage Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
BI-11385	Diagnostic: AFD Bus Under Voltage Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
BI-11386	Diagnostic: AFD Motor Fault Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
BI-11387	Diagnostic: AFD Motor Fault Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
BI-11388	Diagnostic: AFD Precharge Fault Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
BI-11389	Diagnostic: AFD Precharge Fault Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
BI-11390	Diagnostic: AFD Over Temperature Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
BI-11391	Diagnostic: AFD Over Temperature Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)



Object Identifier	Object Name	Object States	Configuration Dependency
BV-10100	Base Loading Request	0 = Off 1 = On	Base Loading
BV-10101	Reset Diagnostic	0 = Normal 1 = Reset	Standard
BV-10102	Evaporator Water Pump Request BAS	0 = Auto 1 = On	Standard
BV-10103	Condenser Water Pump Request BAS	0 = Auto 1 = On	Standard
BV-10104	Chiller Auto Stop Command BAS	0 = Stop 1 = Auto	Standard
BV-10105	Circuit 1 Lockout BAS	0 = Normal 1 = Locked Out	Standard
BV-10106	Circuit 2 Lockout BAS	0 = Normal 1 = Locked Out	Standard
BV-10107	Energy Consumption Reset	0 = Accumulating 1 = Reset	Energy Meter EM Starters w/Line Voltage Sensing Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000)

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Object Identifier	Object Name	Object States	Configuration Dependency
MI-10100	Running Mode	1 = Chiller Off 2 = Chiller In Start Mode 3 = Chiller In Run Mode 4 = Chiller In Pre-Shutdown Mode 5 = Chiller In Service Mode	Standard
MI-10101	Operating Mode	1 = Cool 2 = Heat 3 = Ice Making 4 = Free Cooling	Standard
MI-10102	Chiller Setpoint Source	1 = BAS 2 = External 3 = Front Panel	Standard
MI-10103	Cooling Type	1 = Water Cooled	Standard
MI-10104	Refrigerant Type	1 = R-11 2 = R-12 3 = R-22 4 = R-123 5 = R-134a 8 = R-113 9 = R-114 10 = R-500 11 = R-502 13 = R-513A 14 = R-1233zd(E) 15 = R-514A	Standard
MI-10105	Manufacturing Location	1 = Field Applied 2 = La Crosse 15 = Taicang	Standard
MI-10106	Model Information [GEN2]	1 = CVHF 2 = CVGF 3 = CVHS 11 = CTVD 12 = CVR 13 = CVHH 14 = CDHH 20 = CVHM 38 = CVHE 39 = CVHG 40 = CVHL	Standard



Object Identifier	Object Name	Object States	Configuration Dependency
MV-10100	Chiller Mode Command BAS	1 = Cool 2 = Heat 3 = Ice Making 4 = Free Cooling	Standard



Object Naming Conventions

The communicated points for the Symbio™ controllers are generally named according to their function. While many of the points are read-only, others include both read and write capability. The established naming convention helps to identify the capabilities of each point. For most points, the suffix identifies the capability according to the following definition. While there are some exceptions, the majority of the points have been defined according to these guidelines.

Suffix	Description
Status	Points with the Status suffix are defined as read-only. The status point reports the value being used by the controller.
Local	Points with the Local suffix are defined as read-only. The local point reports values associated with controller sensors, both wired and wireless. The local value may or may not be actively used by the controller, depending on the presence or absence of a communicated value (BAS). When both a local and communicated value exist, the communicated value is used.
Active	Points with the Active suffix are defined as read-only. Points designated as active are normally the result of the arbitration between a communicated value(BAS) and at least one value local to the equipment, such as a sensor or default setpoint. The active point reports the value being input to the controller.
Setpoint	Points with the Setpoint suffix are defined as either read-only or read/write. For BACnet®, the binary input, analog input and multi-state input points are all read-only. These setpoints report the value currently in use by the controller. The analog value, binary value and multi-state value points are all read/write. These points are provided for use by the building automation system (BAS). When used, these points are written internally to arbitration logic. This defines the interaction with hardwired points, editable software configuration points and the relinquish default value/state. Refer to the Appendix for additional information.
Input	Points with the Input suffix are defined as read-only. These points normally reflect the status of a sensor input, either hardwired or communicating wirelessly (Air-Fi®). However, the input point reflects the arbitrated result of the controller sensor input and a communicated value, if present. When both a controller sensor and communicated value exist, the controller will use and report the communicated value.
Arbitrator	Points with the "Arbitrator" suffix are to be used as read-only. The arbitrator prioritizes inputs from communicating points, hardwired points and stored defaults points. The priority array of the arbitration point displays each of the values provided, including the active status, indicating which of the input sources is being used. Refer to the Appendix for additional information.
BAS	Points with the BAS suffix are defined as read/write. These points are provided for use by the building automation system (BAS). When used, these points are written to arbitration logic. This defines the interaction with hardwired points, editable software configuration points and the relinquished default value/state. Refer to the Appendix for additional information.
Command	Points with the Command suffix are defined as read/write. These points are written to change the default behavior of the controller. Once written, these point values may be persisted.
Request	Points with the Request suffix are defined as read/write. These points are written to request a change the operating behavior of the controller.

Object Data Points and Diagnostic Data Points

The following tables are sorted as follows:

- Tables are listed by input/output type and sorted by object identifier. These tables provide the user with the unit's type for each object type.
- Tables are sorted by object name and provide a complete list of object names, types, values/ranges, and descriptions.

Note: Not all points are available to the user. The available data points are defined during self-configuration and are dependent on the type of equipment.



Register Type	Register Value	Byte Order	Invalid Values
Analog	Float, 32-bit	High Word/High Byte First	NaN
Binary	Int, 16-bit, unsigned	High Byte first	0xffff
Multi-state	Int, 16-bit, unsigned	High Byte first	0xffff

Symbio™ 800 Integration Points List

Modbus™

CenTraVac™

Date: 11/15/2024

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Modbus Register	Object Name	Units	Configuration Dependency
30011	Active Chilled Water Setpoint	Temperature	Standard
30013	Chilled Water Setpoint Status	Temperature	Standard
30015	Active Base Loading Setpoint	Percent	Base Loading
30017	Active Hot Water Setpoint	Temperature	Hot Water Control
30019	Calculated Chiller Capacity	Power, Cooling	Evap Water Flow Sensing
30021	Total Demand Distortion	Percent	Active Harmonic Dampening
30023	Active Cool/Heat Setpoint Temperature	Temperature	Standard
30025	Evaporator Leaving Water Temperature	Temperature	Standard
30027	Evaporator Entering Water Temperature	Temperature	Standard
30029	Condenser Entering Water Temperature	Temperature	Standard
30031	Condenser Leaving Water Temperature	Temperature	Standard
30033	Evaporator Water Flow Rate	Flow, water	Evap Water Flow Sensing
30035	Evaporator Differential Water Pressure	Differential Pressure	Evap Water Flow Differential Pressure or Dual Pressure Sensors
30037	Condenser Water Flow Rate	Flow, water	Cond Water Flow Sensing
30039	Condenser Differential Water Pressure	Differential Pressure	Cond Water Flow Differential Pressure or Dual Pressure Sensors
30041	Heat Recovery Entering Water Temperature	Temperature	Heat Recovery
30043	Heat Recovery Leaving Water Temperature	Temperature	Heat Recovery
30045	AFD Last Diagnostic Code Ckt1	None	TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755)
30047	Unit Source ID (Last Diagnostic Code)	None	Standard
30049	Drive Input Voltage Calculated	Voltage	TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755)
30051	Number of Circuits	None	Standard
30053	Number of Compressors Circuit 1	None	Standard
30055	Number of Compressors Circuit 2	None	Standard
30057	Refrigerant Monitor	Concentration	Refrigerant Monitor
30059	Evaporator Refrigerant Pressure Circuit 1	Pressure	Standard
30061	Condenser Refrigerant Pressure Circuit 1	Pressure	Standard
30063	Differential Refrigerant Pressure Circuit 1	Differential Pressure	Standard
30065	Low Side Oil Pressure - Compressor 1A	Pressure	Not CVHS or CVGF CVR w/Oil Pressure Transducers or Oil Lite
30067	High Side Oil Pressure - Compressor 1A	Pressure	Not CVHS or CVGF CVR w/Oil Pressure Transducers or Oil Lite
30069	Oil Differential Pressure Circuit 1	Differential Pressure	Not CVHS or CVGF CVR w/Oil Pressure Transducers or Oil Lite
30071	Oil Temperature - Compressor 1A	Temperature	Not CVHS

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Modbus Register	Object Name	Units	Configuration Dependency
30073	Evaporator Saturated Refrigerant Temperature Circuit 1	Temperature	Standard
30075	Condenser Saturated Refrigerant Temperature Circuit 1	Temperature	Standard
30077	Refrigerant Discharge Temperature - Compressor 1A	Temperature	Discharge Temperature Protection
30079	Inlet Guide Vane 1 Percent Open Circuit 1	Percent	Standard
30081	Inlet Guide Vane 2 Percent Open Circuit 1	Percent	Dual IGV2
30083	Purge Carbon Tank Temperature Circuit 1	Temperature	Purge w/Carbon Tank
30085	Purge Liquid Temperature Circuit 1	Temperature	Purge
30087	Purge Refrigerant Compressor Suction Temperature Circuit 1	Temperature	Purge
30089	Time Until Next Purge Run Circuit 1	None	Purge
30091	Purge Pumpout Chiller On % (7 Days) Circuit 1	Percent	Purge
30093	Purge Pumpout Chiller Off % (7 Days) Circuit 1	Percent	Purge
30095	Purge 24 Hour Pumpout Circuit 1	None	Purge
30097	Purge Pumpout - Life Circuit 1	None	Purge
30099	Refrigeration - Life Circuit 1	None	Purge
30101	Starts - Compressor 1A	None	Standard
30103	Run Time - Compressor 1A	None	Standard
30105	Phase AB Voltage - Compressor 1A	Voltage	EM Starters Solid State Starters Non-communicating AFD (TR200) Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Communicating AFD (PF755)
30107	Phase BC Voltage - Compressor 1A	Voltage	EM Starters Solid State Starters Non-communicating AFD (TR200) Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Communicating AFD (PF755)
30109	Phase CA Voltage - Compressor 1A	Voltage	EM Starters Solid State Starters Non-communicating AFD (TR200) Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Communicating AFD (PF755)
30111	Starter Average Phase Volt Circuit 1	Voltage	EM Starters Solid State Starters Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Non-communicating AFD (TR200) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China) Communicating AFD (PF755)
30113	Line 1 Current - Compressor 1A	Current	EM Starters Solid State Starters Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Non-Communicating AFD (TR200) TR200 Modbus AFD Communicating AFD (PF755)

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30115	Line 2 Current - Compressor 1A	Current	EM Starters Solid State Starters Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Non-Communicating AFD (TR200) TR200 Modbus AFD Communicating AFD (PF755)
30117	Line 3 Current - Compressor 1A	Current	EM Starters Solid State Starters Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Non-Communicating AFD (TR200) TR200 Modbus AFD Communicating AFD (PF755)
30119	Average Line Current Circuit 1	Current	EM Starters Solid State Starters Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) Non-Communicating AFD (TR200) TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755)
30121	Line 1 Current RLA - Compressor 1A	Percent	EM Starters Solid State Starters Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Non-Communicating AFD (TR200) TR200 Modbus AFD Communicating AFD (PF755)
30123	Line 2 Current RLA - Compressor 1A	Percent	EM Starters Solid State Starters Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Non-Communicating AFD (TR200) TR200 Modbus AFD Communicating AFD (PF755)
30125	Line 3 Current RLA - Compressor 1A	Percent	EM Starters Solid State Starters Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Non-Communicating AFD (TR200) TR200 Modbus AFD Communicating AFD (PF755)
30127	Actual Running Capacity	Percent	EM Starters Solid State Starters Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) Non-Communicating AFD (TR200) TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
30129	Unit Power Consumption	Power, Electrical	EM Starters Solid State Starters Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) Non-Communicating AFD (TR200) TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
30131	Starter Load Power Factor - Compressor 1A	None	EM Starters Solid State Starters Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
30133	Inboard Bearing Temperature Circuit 1	Temperature	Bearing Temp Sensors (Not CVHM)

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Modbus Register	Object Name	Units	Configuration Dependency
30135	Outboard Bearing Temperature Circuit 1	Temperature	Bearing Temp Sensors
30137	Motor Winding Temperature 1 Circuit 1	Temperature	Standard
30139	Motor Winding Temperature 2 Circuit 1	Temperature	Standard
30141	Motor Winding Temperature 3 Circuit 1	Temperature	Not CVHS and CVHM
30143	AFD Frequency Circuit 1	None	Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
30145	AFD Transistor Temperature Circuit 1	Temperature	Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
30147	Drive Average Line Current Circuit 1	Current	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) w/Line Side Items Communicating AFD (AFD3)
30149	Drive Current Line 1 Circuit 1	Current	Unit Mount AFD (LF2) w/Line Side Items
30151	Drive Current Line 2 Circuit 1	Current	Unit Mount AFD (LF2) w/Line Side Items
30153	Drive Current Line 3 Circuit 1	Current	Unit Mount AFD (LF2) w/Line Side Items
30155	Drive Line Frequency Circuit 1	None	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) w/Line Side Items Communicating AFD (AFD3)
30157	Drive Frequency Status	None	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF7000) Non-Communicating AFD (TR200) TR200 Modbus AFD Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
30159	Drive Inverter Base Temperature Circuit 1	Temperature	Unit Mount AFD (LF2) w/Line Side Items Communicating AFD (AFD3)
30161	Drive Rectifier Base Temperature Circuit 1	Temperature	Unit Mount AFD (LF2) w/Line Side Items Communicating AFD (AFD3)
30163	Drive Output Power Circuit 1	Current	Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
30165	Drive Motor Current U RLA Circuit 1	Percent	Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
30167	Drive Motor Current V RLA Circuit 1	Percent	Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
30169	Drive Motor Current W RLA Circuit 1	Percent	Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
30171	Drive Motor Current U Circuit 1	Current	Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
30173	Drive Motor Current V Circuit 1	Current	Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)

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Modbus Register	Object Name	Units	Configuration Dependency
30175	Drive Motor Current W Circuit 1	Current	Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
30177	Drive Motor Voltage UV Circuit 1	Voltage	Communicating AFD (AFD3)
30179	Drive Motor Voltage VW Circuit 1	Voltage	Communicating AFD (AFD3)
30181	Drive Motor Voltage WU Circuit 1	Voltage	Communicating AFD (AFD3)
30183	Drive Motor Average Voltage Circuit 1	Voltage	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) w/Line Side Items Communicating AFD (AFD3) Communicating AFD (PF755)
30185	Drive Motor Average Current RLA Circuit 1	Percent	EM Starters Solid State Starters Non-Communicating AFD (TR200) Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
30187	Lube Differential Pressure	Differential Pressure	CVHS
30189	Lube Pump Suction Pressure	Pressure	CVHS
30191	Lube Pump Discharge Pressure	Pressure	CVHS
30193	Motor Coolant Temperature	Temperature	MTC Temp Sensor
30195	AFD % RLA Ripple	Percent	Communicating AFD (AFD3)
30197	AFD Inverter Module Temperature U	Temperature	Communicating AFD (AFD3)
30199	AFD Inverter Module Temperature V	Temperature	Communicating AFD (AFD3)
30201	AFD Inverter Module Temperature W	Temperature	Communicating AFD (AFD3)
30203	Outboard Bearing Pad Temperature #1 Ckt1	Temperature	CVHH
30205	Outboard Bearing Pad Temperature #2 Ckt1	Temperature	CVHH
30207	Outboard Bearing Pad Temperature #3 Ckt1	Temperature	CVHH
30209	Condenser Control Output	Percent	Head Pressure Control
30211	Restart Inhibit Time Remaining	None	Standard
30213	Chiller Design Capacity	Power, Cooling	Standard
30215	Entering Condenser Water Pressure	Pressure	Condenser Water Flow Differential Pressure Sensors
30217	Entering Evaporator Water Pressure	Pressure	Evaporator Water Flow Differential Pressure Sensors
30219	Leaving Condenser Water Pressure	Pressure	Condenser Water Flow Differential Pressure Sensors
30221	Leaving Evaporator Water Pressure	Pressure	Evaporator Water Flow Differential Pressure Sensors
30223	Condenser Approach Temperature Circuit 1	Temperature, Delta	Standard
30225	Evaporator Approach Temperature Circuit 1	Temperature, Delta	Standard

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Modbus Register	Object Name	Units	Configuration Dependency
30227	Drive DC Bus Voltage Circuit 1	Voltage	Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755) UM AFD w/o THD filter MV Remote Mount Comm AFD (local drive for China)
30229	Active Demand Limit Setpoint	Percent	Standard
30231	Demand Limit Setpoint Status	Percent	Ice Building
30233	Drive Heatsink Temperature Compressor 1A	Temperature	TR200 Modbus AFD
30235	Heat Recovery Differential Water Pressure	Differential Pressure	Heat Recovery Water Flow Differential Pressure or Dual Pressure Sensors
30237	Heat Recovery Water Flow Rate	Flow, water	Heat Recovery Water Flow Sensing
30239	Heat Recovery Calculated Capacity	Power, Heating	Heat Recovery Water Flow Sensing
30241	Heat Recovery Entering Water Pressure	Pressure	Heat Recovery Water Flow Differential Pressure Sensors
30243	Heat Recovery Leaving Water Pressure	Pressure	Heat Recovery Water Flow Differential Pressure Sensors
30245	Voltage L1-L2	Voltage	Energy Meter
30247	Voltage L2-L3	Voltage	Energy Meter
30249	Voltage L1-L3	Voltage	Energy Meter
30251	Chiller Average Line Voltage	Voltage	Energy Meter
30253	Current L1	Current	Energy Meter
30255	Current L2	Current	Energy Meter
30257	Current L3	Current	Energy Meter
30259	Unit Average Line Current	Current	Energy Meter
30261	Line Frequency	None	Energy Meter
30263	Power Factor	None	Energy Meter
30265	Unit Power Demand	None	Energy Meter
30267	Energy Consumption	Energy, Electrical	Energy Meter EM Starters w/Line Voltage Sensing Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) TR200 Modbus AFD Communicating AFD (AFD3)
30269	Energy Consumption Lifetime	Energy, Electrical	Energy Meter EM Starters w/Line Voltage Sensing Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) TR200 Modbus AFD Communicating AFD (AFD3)
30271	Outdoor Air Temperature Local	Temperature	Outdoor Air Temperature
30273	Heat Recovery Approach Temperature Circuit 1	Temperature, Delta	Heat Recovery

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Modbus Register	Object Name	Units	Configuration Dependency
40011	Chilled Water Setpoint	Temperature	Standard
40013	Demand Limit Setpoint	Percent	Standard
40015	Hot Water Setpoint	Temperature	Hot Water Control
40017	Base Loading Setpoint	Percent	Base Loading

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Modbus Register	Object Name	Object States	Configuration Dependency
33011	Base Loading Request Active	0 = Off 1 = On	Base Loading
33012	Emergency Stop	0 = Auto 1 = Emergency Stop - Manual Reset Required	Standard
33013	Manual Override Exists	0 = Off 1 = On	Standard
33014	Base Loading Active	0 = Inactive 1 = Active	Base Loading
33015	Run Enabled	0 = Run Not Enabled 1 = Run Enabled	Standard
33016	Local Setpoint Control	0 = Remote Control 1 = Local Control	Standard
33017	Maximum Capacity	0 = Off 1 = On	Standard
33018	Capacity Limited	0 = Not Limited 1 = Limited	Standard
33019	Head Relief Request	0 = Off 1 = On	Standard
33020	Hot Gas Bypass Active	0 = Inactive 1 = Active	Hot Gas Bypass
33021	Purge Compressor Relay Circuit 1	0 = Off 1 = On	Purge
33022	Pump Out Relay Circuit 1	0 = Off 1 = On	Purge
33023	Purge Regenerating Valve Solenoid Circuit 1	0 = Off 1 = On	Purge w/Carbon Tank
33024	Chiller Running State	0 = Off 1 = On	Standard
33025	Evaporator Water Pump Request	0 = Off 1 = On	Standard
33026	Evaporator Water Flow Status	0 = No Flow 1 = Flow	Standard
33027	Condenser Water Pump Request	0 = Off 1 = On	Standard
33028	Condenser Water Flow Status	0 = No Flow 1 = Flow	Standard
33029	Diagnostic Present	0 = Normal 1 = In Alarm	Standard
33030	Diagnostic Shutdown Present	0 = Normal 1 = In Alarm	Standard
33031	Diagnostic: Manual Reset Required	0 = Normal 1 = In Alarm	Standard



Modbus Register	Object Name	Object States	Configuration Dependency
33032	Diagnostic: Local Manual Reset Required	0 = Normal 1 = In Alarm	Standard
33033	Diagnostic Present: Information	0 = Normal 1 = In Alarm	Standard
33034	Diagnostic Present: Advisory	0 = Normal 1 = In Alarm	Standard
33035	Diagnostic Present: Critical	0 = Normal 1 = In Alarm	Standard
33036	Diagnostic Present: Service Required	0 = Normal 1 = In Alarm	Standard
33037	Compressor 1A Status	0 = Off 1 = Running	Standard
33038	Front Panel Auto Stop	0 = Stop 1 = Auto	Standard
33039	External Auto Stop Input Status	0 = Stop 1 = Auto	Standard
33040	Heat Recovery Water Flow Status	0 = No Flow 1 = Flow	Heat Recovery Water Flow Switch



Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34001	Diagnostic: AFD AD Calibration Error Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34002	Diagnostic: AFD AHD Frequency Out of Range Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34003	Diagnostic: AFD AHD Sync Signal Error Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34004	Diagnostic: AFD Bump Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34005	Diagnostic: AFD Bus Over Voltage Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3) Unit Mount Comm AFD - AFDY (PF755) MV Remote Mount Comm AFD Remote Mount Comm AFD - VFDB (PF6000)
34006	Diagnostic: AFD Bus Ripple Too High Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34007	Diagnostic: AFD Bus Under Voltage Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3) Unit Mount Comm AFD - AFDY (PF755) MV Remote Mount Comm AFD Remote Mount Comm AFD - VFDB (PF6000)
34008	Diagnostic: AFD Comm Loss: Main Processor Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
34009	Diagnostic: AFD Comm Loss: Main Processor Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3) Unit Mount Comm AFD - AFDY (PF755) Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) MV Remote Mount Comm AFD Remote Mount Comm AFD - VFDB (PF6000)
34010	Diagnostic: AFD Control Board Memory Error Type 2 Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34011	Diagnostic: AFD Current Sensor Self Test Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34012	Diagnostic: AFD Desaturation Detected Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34013	Diagnostic: AFD DPI Communication Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34014	Diagnostic: AFD Drive Fault Circuit 1	0 = Normal 1 = In Alarm	MV Remote Mount Comm AFD
34015	Diagnostic: AFD DSP Board ID Error Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34016	Diagnostic: AFD DSP Board Initialization Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34017	Diagnostic: AFD DSP Board Low Voltage Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34018	Diagnostic: AFD DSP Board Over Temp Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34019	Diagnostic: AFD Emergency Stop Fault Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3) MV Remote Mount Comm AFD
34020	Diagnostic: AFD Estimated Junction Over Temp Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34021	Diagnostic: AFD Excessive AHD Inhibit Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)

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Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34022	Diagnostic: AFD External Fault Input Circuit 1	0 = Normal 1 = In Alarm	Unit Mount Comm AFD - AFDY (PF755)
34023	Diagnostic: AFD Fatal Software Error Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34024	Diagnostic: AFD Fault Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
34025	Diagnostic: AFD Gate Drive Board Over Temp Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34026	Diagnostic: AFD Gate Drive Fault Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34027	Diagnostic: AFD Gate Drive Low Voltage Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34028	Diagnostic: AFD Gate Drive Module Comm Loss Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34029	Diagnostic: AFD Gate Kill Active Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3) Unit Mount Comm AFD - AFDY (PF755) Remote Mount Comm AFD - VFDB (PF6000)
34030	Diagnostic: AFD General Failure Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
34031	Diagnostic: AFD General Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3) Unit Mount AFD - AFDD,E,F (LF2) Unit Mount Comm AFD - AFDY (PF755) Remote Mount Comm AFD - (PF7000) MV Remote Mount Comm AFD - VFDB (PF6000)
34032	Diagnostic: AFD Ground Fault Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
34033	Diagnostic: AFD Ground Fault Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3) Unit Mount AFD - AFDD,E,F (LF2) Unit Mount Comm AFD - AFDY (PF755) Remote Mount Comm AFD - (PF7000) MV Remote Mount Comm AFD - VFDB (PF6000)
34034	Diagnostic: AFD High Bus Voltage Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34035	Diagnostic: AFD High Temperature Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34036	Diagnostic: AFD I/O Board Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34037	Diagnostic: AFD IGBT Self Test Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34038	Diagnostic: AFD IMC 24V Detection Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34039	Diagnostic: AFD Input Transformer or Filter High Temp Circuit 1	0 = Normal 1 = In Alarm	Unit Mount Comm AFD - AFDY (PF755)



Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34040	Diagnostic: AFD Instantaneous Current Overload Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3) Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) MV Remote Mount Comm AFD Remote Mount Comm AFD - VFDB (PF6000)
34041	Diagnostic: AFD Interrupt Failure Circuit 1	0 = Normal 1 = In Alarm	Communicating AFD
34042	Diagnostic: AFD Invalid Drive Command Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34043	Diagnostic: AFD Inverter Heatsink Over Temp Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3) MV Remote Mount Comm AFD
34044	Diagnostic: AFD Loss of AHD Sync Signal Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34045	Diagnostic: AFD Low Rotor Flux Feedback Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3) Unit Mount Comm AFD - AFDY (PF755)
34046	Diagnostic: AFD Mains Phase Loss Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
34047	Diagnostic: AFD Motor Current Overload Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
34048	Diagnostic: AFD Motor Current Overload Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3) Unit Mount Comm AFD - AFDY (PF755) Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) MV Remote Mount Comm AFD Remote Mount Comm AFD - VFDB (PF6000)
34049	Diagnostic: AFD Motor Fault Circuit 1	0 = Normal 1 = In Alarm	Unit Mount Comm AFD - AFDY (PF755) Remote Mount Comm AFD - VFDB (PF6000)
34050	Diagnostic: AFD Motor Short Circuit 1	0 = Normal 1 = In Alarm	Unit Mount Comm AFD - AFDY (PF755) Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34051	Diagnostic: AFD Non-Volatile Memory Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34052	Diagnostic: AFD Output Phase Loss Circuit 1	0 = Normal 1 = In Alarm	Unit Mount Comm AFD - AFDY (PF755) Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
34053	Diagnostic: AFD Over Temperature Circuit 1	0 = Normal 1 = In Alarm	Unit Mount Comm AFD - AFDY (PF755) Remote Mount Comm AFD - VFDB (PF6000)
34054	Diagnostic: AFD Overspeed Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34055	Diagnostic: AFD Panel Interlock Fault Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34056	Diagnostic: AFD Panel Interlock Warning Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34057	Diagnostic: AFD Power Intfc Controller Board Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34058	Diagnostic: AFD Power Loss Circuit 1	0 = Normal 1 = In Alarm	Unit Mount Comm AFD - AFDY (PF755) Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
34059	Diagnostic: AFD Power Structure Board Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)

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34060	Diagnostic: AFD Precharge Fault Circuit 1	0 = Normal 1 = In Alarm	Unit Mount Comm AFD - AFDY (PF755) Remote Mount Comm AFD - VFDB (PF6000)
34061	Diagnostic: AFD Rectifier Heatsink Over Temp Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34062	Diagnostic: AFD RS485 Board Memory Error Type 2 Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34063	Diagnostic: AFD Safe Stop Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
34064	Diagnostic: AFD Short Circuit Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
34065	Diagnostic: AFD Speed Configuration Mismatch Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
34066	Diagnostic: AFD Start Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34067	Diagnostic: AFD Temperature Sensor Warning Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34068	Diagnostic: AFD Watchdog Timer Overflow Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
34069	Diagnostic: At Speed Input Opened Circuit 1	0 = Normal 1 = In Alarm	Non-comm AFD Solid State Starter
34070	Diagnostic: At Speed Input Shorted Circuit 1	0 = Normal 1 = In Alarm	Non-comm AFD Solid State Starter
34071	Diagnostic: Bearing Lube Flow First Stage Sensor Input	0 = Normal 1 = In Alarm	CVHS
34072	Diagnostic: Bearing Lube Flow Second Stage Sensor Input	0 = Normal 1 = In Alarm	CVHS
34073	Diagnostic: Brg Lube Flow Overdue First Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
34074	Diagnostic: Brg Lube Flow Overdue Second Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
34076	Diagnostic: Check Lube Filter Circuit 1	0 = Normal 1 = In Alarm	CVHS
34077	Diagnostic: Check Oil Filter Circuit 1	0 = Normal 1 = In Alarm	Oil Pump
34078	Diagnostic: Check Oil Heater Circuit 1	0 = Normal 1 = In Alarm	Oil Heater
34079	Comm Loss: Adaptive Frequency Drive Circuit 1	0 = Normal 1 = In Alarm	Communicating AFD
34080	Comm Loss: AFD Speed Signal VDC Output Circuit 1	0 = Normal 1 = In Alarm	Non-comm AFD
34081	Comm Loss: Bearing Lube Flow First Stage	0 = Normal 1 = In Alarm	CVHS
34082	Comm Loss: Bearing Lube Flow Second Stage	0 = Normal 1 = In Alarm	CVHS

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34083	Comm Loss: Compressor Motor % RLA Output Circuit 1	0 = Normal 1 = In Alarm	% RLA Output
34084	Comm Loss: Cond Diff Water Pressure	0 = Normal 1 = In Alarm	Cond Differential Pressure Flow Measurement
34085	Comm Loss: Cond Head Press Cntrl Output	0 = Normal 1 = In Alarm	Head Pressure Control
34086	Comm Loss: Cond High Pressure Cutout	0 = Normal 1 = In Alarm	Standard
34087	Comm Loss: Cond Lubrication Source Valve	0 = Normal 1 = In Alarm	CVHS
34088	Comm Loss: Cond Refrigerant Pressure	0 = Normal 1 = In Alarm	Standard
34089	Comm Loss: Cond Rfght Pressure Output	0 = Normal 1 = In Alarm	Cond Refrigerant Pressure Output
34090	Comm Loss: Cond Saturated Rfght Temp	0 = Normal 1 = In Alarm	Standard
34091	Comm Loss: Condenser Entering Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensor
34092	Comm Loss: Condenser Entering Water Temp	0 = Normal 1 = In Alarm	Standard
34093	Comm Loss: Condenser Leaving Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensor
34094	Comm Loss: Condenser Leaving Water Temp	0 = Normal 1 = In Alarm	Standard
34095	Comm Loss: Condenser Liquid Level Sensor	0 = Normal 1 = In Alarm	Economizer Bypass
34097	Comm Loss: Condenser Water Flow Switch	0 = Normal 1 = In Alarm	Standard
34098	Comm Loss: Condenser Water Pump Relay	0 = Normal 1 = In Alarm	Standard
34099	Comm Loss: Cprsr Discharge Rfght Temp	0 = Normal 1 = In Alarm	Compressor Discharge Temp Sensor
34100	Comm Loss: Economizer Bypass Valve	0 = Normal 1 = In Alarm	Economizer Bypass
34103	Comm Loss: Emergency Stop	0 = Normal 1 = In Alarm	Standard
34104	Comm Loss: Energy Meter Circuit 1	0 = Normal 1 = In Alarm	Energy Meter
34105	Comm Loss: Evap Diff Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Differential Pressure
34106	Comm Loss: Evap Entering Water Temp	0 = Normal 1 = In Alarm	Standard
34107	Comm Loss: Evap Leaving Water Temp	0 = Normal 1 = In Alarm	Standard

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34108	Comm Loss: Evap Lube Source Valve Relay	0 = Normal 1 = In Alarm	CVHS
34109	Comm Loss: Evap Saturated Rfght Temp	0 = Normal 1 = In Alarm	Standard
34110	Comm Loss: Evaporator Entering Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Dual Pressure Sensor
34111	Comm Loss: Evaporator Leaving Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Dual Pressure Sensor
34112	Comm Loss: Evaporator Water Flow Switch	0 = Normal 1 = In Alarm	Standard
34113	Comm Loss: Evaporator Water Pump Relay	0 = Normal 1 = In Alarm	Standard
34114	Comm Loss: Ext Base Loading Command	0 = Normal 1 = In Alarm	Base Loading
34115	Comm Loss: Ext Base Loading Setpoint	0 = Normal 1 = In Alarm	Base Loading
34116	Comm Loss: Ext Chilled/Hot Water Setpoint	0 = Normal 1 = In Alarm	External Chilled Water Setpoint
34117	Comm Loss: Ext Demand Limit Setpoint	0 = Normal 1 = In Alarm	External Demand Limit
34118	Comm Loss: External Auto/Stop	0 = Normal 1 = In Alarm	Standard
34119	Comm Loss: External Free Cooling Command	0 = Normal 1 = In Alarm	Free Cooling
34120	Comm Loss: External Hot Water Command	0 = Normal 1 = In Alarm	Hot Water Control
34121	Comm Loss: External Ice Building Command	0 = Normal 1 = In Alarm	Ice Building
34122	Comm Loss: Free Cool Actrs Closed Input	0 = Normal 1 = In Alarm	Free Cooling
34123	Comm Loss: Free Cool Gas Line Actr Relay	0 = Normal 1 = In Alarm	Free Cooling
34124	Comm Loss: Free Cool Liq Line Actr Relay	0 = Normal 1 = In Alarm	Free Cooling
34125	Comm Loss: Free Cooling Auxiliary Relay	0 = Normal 1 = In Alarm	Free Cooling
34126	Comm Loss: Generator Fault Input	0 = Normal 1 = In Alarm	Engine Generator Power Source
34127	Comm Loss: Generator Speed Signal Output	0 = Normal 1 = In Alarm	Engine Generator Power Source
34128	Comm Loss: Generator Start/Stop Relay	0 = Normal 1 = In Alarm	Engine Generator Power Source
34129	Comm Loss: Generator Up To Speed Input	0 = Normal 1 = In Alarm	Engine Generator Power Source



Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34130	Comm Loss: Heat Recovery Differential Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery Water Flow Measurement - Differential Pressure
34131	Comm Loss: Heat Recovery Entering Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery Water Flow Measurement - Dual Pressure Sensor
34132	Comm Loss: Heat Recovery Entering Water Temp	0 = Normal 1 = In Alarm	Heat Recovery
34133	Comm Loss: Heat Recovery Leaving Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery Water Flow Measurement - Dual Pressure Sensor
34134	Comm Loss: Heat Recovery Leaving Water Temp	0 = Normal 1 = In Alarm	Heat Recovery
34135	Comm Loss: Heat Recovery Water Flow Switch	0 = Normal 1 = In Alarm	Heat Recovery Water Flow Switch
34136	Comm Loss: High Lift Unload Valve Relay	0 = Normal 1 = In Alarm	CVGF
34137	Comm Loss: Hot Gas Bypass Actr Closed In	0 = Normal 1 = In Alarm	Hot Gas Bypass
34138	Comm Loss: Hot Gas Bypass Load Relay	0 = Normal 1 = In Alarm	Hot Gas Bypass
34139	Comm Loss: Hot Gas Bypass Unload Relay	0 = Normal 1 = In Alarm	Hot Gas Bypass
34140	Comm Loss: Ice Building Relay	0 = Normal 1 = In Alarm	Ice Building
34141	Comm Loss: IGV First Stage Actuator Circuit 1	0 = Normal 1 = In Alarm	Standard
34142	Comm Loss: IGV Second Stage Actuator Circuit 1	0 = Normal 1 = In Alarm	Dual Actuators
34143	Comm Loss: Inboard Bearing Temperature Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensor
34144	Comm Loss: Lube Pump Discharge Pressure	0 = Normal 1 = In Alarm	CVHS
34145	Comm Loss: Lube Pump Suction Pressure	0 = Normal 1 = In Alarm	CVHS
34146	Comm Loss: Lube/Refrigerant Pump Relay	0 = Normal 1 = In Alarm	CVHS
34147	Comm Loss: Motor Coolant Temperature	0 = Normal 1 = In Alarm	MTC Temperature Sensor
34148	Comm Loss: Motor Temp/Overload	0 = Normal 1 = In Alarm	"Lite" Motor Temp Protection
34149	Comm Loss: Motor Temperature Cutout	0 = Normal 1 = In Alarm	MTC Switch
34150	Comm Loss: Motor Winding Temperature 1 Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M,S CVGF
34151	Comm Loss: Motor Winding Temperature 2 Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M,S CVGF



Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34152	Comm Loss: Motor Winding Temperature 3 Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L CVGF
34153	Comm Loss: Oil Cooler Solenoid Circuit 1	0 = Normal 1 = In Alarm	CVHH Oil Cooler Solenoid Valve
34154	Comm Loss: Oil Diff Pressure Switch Circuit 1	0 = Normal 1 = In Alarm	CVGF
34155	Comm Loss: Oil Pressure Status Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M
34156	Comm Loss: Oil Pump Discharge Pressure Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M
34157	Comm Loss: Oil Tank Heater 4E1 Relay Circuit 1	0 = Normal 1 = In Alarm	CVHH CVGF
34158	Comm Loss: Oil Tank Heater 4E2 Relay Circuit 1	0 = Normal 1 = In Alarm	CVHH CVGF
34159	Comm Loss: Oil Tank Heater Relay Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M
34160	Comm Loss: Oil Tank Pressure Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M
34161	Comm Loss: Oil Tank Temperature Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M CVGF
34162	Comm Loss: Oil Vent Line Circuit 1	0 = Normal 1 = In Alarm	CVHH
34163	Comm Loss: Oil/Refrigerant Pump Relay Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M CVGF
34164	Comm Loss: Outboard Bearing Pad Temp 1 Circuit 1	0 = Normal 1 = In Alarm	CVHH
34165	Comm Loss: Outboard Bearing Pad Temp 2 Circuit 1	0 = Normal 1 = In Alarm	CVHH
34166	Comm Loss: Outboard Bearing Pad Temp 3 Circuit 1	0 = Normal 1 = In Alarm	CVHH
34167	Comm Loss: Outboard Bearing Temperature Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensor
34168	Comm Loss: Outdoor Air Temperature	0 = Normal 1 = In Alarm	Outdoor Air Temp Sensor
34169	Comm Loss: Programmable Relay Board 1	0 = Normal 1 = In Alarm	Programmable Status Relays
34170	Comm Loss: Programmable Relay Board 2	0 = Normal 1 = In Alarm	Programmable Status Relays
34171	Comm Loss: Purge Alarm Relay Circuit 1	0 = Normal 1 = In Alarm	Purge
34172	Comm Loss: Purge Carbon Tank Heater Rly Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank
34173	Comm Loss: Purge Carbon Tank Temperature Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank

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34174	Comm Loss: Purge Condensing Unit Relay Circuit 1	0 = Normal 1 = In Alarm	Purge
34175	Comm Loss: Purge Cprsr Suction Rfght Temp Circuit 1	0 = Normal 1 = In Alarm	Purge
34176	Comm Loss: Purge Exhaust Solenoid Output Circuit 1	0 = Normal 1 = In Alarm	Purge
34177	Comm Loss: Purge Liquid Level Switch Circuit 1	0 = Normal 1 = In Alarm	Purge
34178	Comm Loss: Purge Pumpout Relay Circuit 1	0 = Normal 1 = In Alarm	Purge
34179	Comm Loss: Purge Pumpout Solenoid Output Circuit 1	0 = Normal 1 = In Alarm	Purge
34180	Comm Loss: Purge Regen Solenoid Relay Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank
34181	Comm Loss: Refrigerant Monitor Input	0 = Normal 1 = In Alarm	Refrigerant Monitor
34182	Comm Loss: Starter Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
34183	Comm Loss: Starter Fault Circuit 1	0 = Normal 1 = In Alarm	Non-comm AFD Solid State Starter
34184	Comm Loss: Vibration Sensor Input	0 = Normal 1 = In Alarm	Vibration Sensor
34185	Diagnostic: Compressor Did Not Accelerate: Shutdown Compressor 1A	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
34186	Diagnostic: Cond Saturated Refrigerant Temp Sensor	0 = Normal 1 = In Alarm	Standard
34187	Diagnostic: Condenser Diff Water Pressure Xdcr	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Differential Pressure
34188	Diagnostic: Condenser Entering Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensor
34189	Diagnostic: Condenser Entering Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
34190	Diagnostic: Condenser High Pressure Cutout	0 = Normal 1 = In Alarm	Standard
34191	Diagnostic: Condenser Leaving Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensor
34192	Diagnostic: Condenser Leaving Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
34193	Diagnostic: Condenser Liquid Level Sensor	0 = Normal 1 = In Alarm	Economizer Bypass
34194	Diagnostic: Condenser Refrigerant Pressure Xdcr	0 = Normal 1 = In Alarm	Condenser Refrigerant Pressure Sensor
34196	Diagnostic: Condenser Water Flow Lost	0 = Normal 1 = In Alarm	Standard

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Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34197	Diagnostic: Condenser Water Flow Overdue	0 = Normal 1 = In Alarm	Standard
34198	Diagnostic: Cprsr Did Not Accelerate: Transition	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
34199	Diagnostic: Cprsr Discharge Refrigerant Temp Sensor	0 = Normal 1 = In Alarm	Compressor Discharge Temp Sensor
34200	Diagnostic: Differential Lube Pressure Overdue Circuit 1	0 = Normal 1 = In Alarm	CVHS
34201	Diagnostic: Differential Oil Pressure Overdue Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M CVGF
34203	Diagnostic: Emergency Stop	0 = Normal 1 = In Alarm	Standard
34204	Diagnostic: Evap Rfght Temp Deviate From Selection	0 = Normal 1 = In Alarm	Standard
34205	Diagnostic: Evap Saturated Refrigerant Temp Sensor	0 = Normal 1 = In Alarm	Standard
34206	Diagnostic: Evaporator Diff Water Pressure Xdcr	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Differential Pressure
34207	Diagnostic: Evaporator Entering Water Pressure	0 = Normal 1 = In Alarm	Evap Flow Measurement - Dual Pressure Sensor
34208	Diagnostic: Evaporator Entering Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
34209	Diagnostic: Evaporator Leaving Water Pressure	0 = Normal 1 = In Alarm	Evap Flow Measurement - Dual Pressure Sensor
34210	Diagnostic: Evaporator Leaving Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
34211	Diagnostic: Evaporator Water Flow Lost	0 = Normal 1 = In Alarm	Standard
34212	Diagnostic: Evaporator Water Flow Overdue	0 = Normal 1 = In Alarm	Standard
34213	Diagnostic: Excessive Loss of Communication	0 = Normal 1 = In Alarm	Standard
34215	Diagnostic: Extended Compressor Surge Compressor 1A	0 = Normal 1 = In Alarm	Standard
34216	Diagnostic: External Base Loading Setpoint	0 = Normal 1 = In Alarm	Base Loading
34217	Diagnostic: External Chilled/Hot Water Setpoint	0 = Normal 1 = In Alarm	External Chilled Water Setpoint
34218	Diagnostic: External Demand Limit Setpoint	0 = Normal 1 = In Alarm	External Demand Limit Setpoint
34219	Diagnostic: Free Cooling Actrs Not Open During FC	0 = Normal 1 = In Alarm	Free Cooling
34220	Diagnostic: Free Cooling Actuators Not Closed	0 = Normal 1 = In Alarm	Free Cooling



Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34221	Diagnostic: Free Cooling Actuators Not Open	0 = Normal 1 = In Alarm	Free Cooling
34222	Diagnostic: Free Cooling Actuators Unexpectedly Open	0 = Normal 1 = In Alarm	Free Cooling
34223	Diagnostic: Generator Fault Relay Open	0 = Normal 1 = In Alarm	Engine Generator Power Source
34224	Diagnostic: Generator Ready Signal Overdue	0 = Normal 1 = In Alarm	Engine Generator Power Source
34225	Diagnostic: Heat Recovery Diff Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery Water Flow Measurement - Differential Pressure
34226	Diagnostic: Heat Recovery Entering Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery Water Flow Measurement - Dual Pressure Sensor
34227	Diagnostic: Heat Recovery Entering Water Temp Sensor	0 = Normal 1 = In Alarm	Heat Recovery
34228	Diagnostic: Heat Recovery Leaving Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery Water Flow Measurement - Dual Pressure Sensor
34229	Diagnostic: Heat Recovery Leaving Water Temp Sensor	0 = Normal 1 = In Alarm	Heat Recovery
34230	Diagnostic: High Condenser Pressure	0 = Normal 1 = In Alarm	Standard
34231	Diagnostic: High Cprsr Rfgt Discharge Temperature	0 = Normal 1 = In Alarm	Compressor Discharge Temp Sensor
34232	Diagnostic: High Differential Refrigerant Pressure	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M,S
34233	Diagnostic: High Evaporator Refrigerant Temperature	0 = Normal 1 = In Alarm	Standard
34234	Diagnostic: High Evaporator Water Temperature	0 = Normal 1 = In Alarm	Standard
34235	Diagnostic: High Inboard Bearing Temperature Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensor
34236	Diagnostic: High Motor Coolant Temperature Circuit 1	0 = Normal 1 = In Alarm	MTC Temperature Sensor
34237	Diagnostic: High Motor Winding Temperature 1 Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,S,M,L CVGF
34238	Diagnostic: High Motor Winding Temperature 2 Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,S,M,L CVGF
34239	Diagnostic: High Motor Winding Temperature 3 Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L CVGF
34240	Diagnostic: High Oil Temperature Circuit 1	0 = Normal 1 = In Alarm	Standard
34241	Diagnostic: High Outboard Bearing Pad Temperature 1 Circuit 1	0 = Normal 1 = In Alarm	CVHH
34242	Diagnostic: High Outboard Bearing Pad Temperature 2 Circuit 1	0 = Normal 1 = In Alarm	CVHH

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34243	Diagnostic: High Outboard Bearing Pad Temperature 3 Circuit 1	0 = Normal 1 = In Alarm	CVHH
34244	Diagnostic: High Outboard Bearing Temp Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensor
34245	Diagnostic: High Vacuum Lockout Circuit 1	0 = Normal 1 = In Alarm	Standard
34246	Diagnostic: Hot Gas Bypass Valve Closure Overdue	0 = Normal 1 = In Alarm	Hot Gas Bypass
34247	Diagnostic: Hot Gas Bypass Valve Opening Overdue	0 = Normal 1 = In Alarm	Hot Gas Bypass
34248	Diagnostic: Hot Gas Bypass Valve Unexpectedly Open	0 = Normal 1 = In Alarm	Hot Gas Bypass
34249	Diagnostic: HPC/High AFD Heat Sink Water Pressure	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34250	Diagnostic: Inboard Bearing Temp Sensor Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensor
34251	Diagnostic: Inverted Condenser Approach Temperature	0 = Normal 1 = In Alarm	Standard
34252	Diagnostic: Inverted Condenser Water Temperature	0 = Normal 1 = In Alarm	Standard
34253	Diagnostic: Inverted Evaporator Approach Temperature	0 = Normal 1 = In Alarm	Standard
34254	Diagnostic: Inverted Evaporator Water Temperature	0 = Normal 1 = In Alarm	Standard
34255	Diagnostic: Loss of Economizer Bypass Valve Control	0 = Normal 1 = In Alarm	Economizer Bypass
34256	Diagnostic: Low Bearing Lube Flow First Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
34257	Diagnostic: Low Bearing Lube Flow Second Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
34258	Diagnostic: Low Brg Lube Flow Lockout First Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
34259	Diagnostic: Low Brg Lube Flow Lockout Second Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
34260	Diagnostic: Low Differential Lube Pressure Circuit 1	0 = Normal 1 = In Alarm	CVHS
34261	Diagnostic: Low Differential Oil Pressure Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M CVGF
34262	Diagnostic: Low Evap Leaving Water Temp: Unit Off	0 = Normal 1 = In Alarm	Standard
34263	Diagnostic: Low Evap Leaving Water Temp: Unit On	0 = Normal 1 = In Alarm	Standard
34264	Diagnostic: Low Evaporator Refrigerant Temperature	0 = Normal 1 = In Alarm	Standard



Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34265	Diagnostic: Low Evaporator Water Flow	0 = Normal 1 = In Alarm	Water Flow Sensing
34266	Diagnostic: Low Oil Temperature Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L CVGF
34267	Diagnostic: Lube Pressure Sensor Calibration Circuit 1	0 = Normal 1 = In Alarm	CVHS
34268	Diagnostic: Lube Pump Disch Pressure Xdcr Circuit 1	0 = Normal 1 = In Alarm	CVHS
34269	Diagnostic: Lube Pump Override: Low Diff Press Circuit 1	0 = Normal 1 = In Alarm	CVHS
34270	Diagnostic: Lube Pump Override: Low Flow 1st Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
34271	Diagnostic: Lube Pump Override: Low Flow 2nd Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
34272	Diagnostic: Lube Pump Suction Pressure Xdcr Circuit 1	0 = Normal 1 = In Alarm	CVHS
34273	Diagnostic: Momentary Power Loss	0 = Normal 1 = In Alarm	Momentary Power Loss
34274	Diagnostic: Motor Coolant Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	MTC Temperature Sensor
34275	Diagnostic: Motor Current Overload Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
34276	Diagnostic: Motor Temperature Cutout Tripped Circuit 1	0 = Normal 1 = In Alarm	MTC Switch
34277	Diagnostic: Motor Winding Temperature 1 Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard
34278	Diagnostic: Motor Winding Temperature 2 Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard
34279	Diagnostic: Motor Winding Temperature 3 Sensor Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L CVGF
34280	Diagnostic: MP: Invalid Configuration	0 = Normal 1 = In Alarm	Standard
34281	Diagnostic: MP: Reset Has Occurred	0 = Normal 1 = In Alarm	Standard
34282	Diagnostic: Oil Pressure Sensor Calibration Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M
34283	Diagnostic: Oil Pump Discharge Pressure Transducer Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M
34284	Diagnostic: Oil Tank Pressure Transducer Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M
34285	Diagnostic: Oil Tank Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M CVGF
34286	Diagnostic: Outboard Bearing Pad Temp 1 Sensor Circuit 1	0 = Normal 1 = In Alarm	CVHH



Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34287	Diagnostic: Outboard Bearing Pad Temp 2 Sensor Circuit 1	0 = Normal 1 = In Alarm	CVHH
34288	Diagnostic: Outboard Bearing Pad Temp 3 Sensor Circuit 1	0 = Normal 1 = In Alarm	CVHH
34289	Diagnostic: Outboard Bearing Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensor
34290	Diagnostic: Outdoor Air Temperature Sensor	0 = Normal 1 = In Alarm	Outdoor Air Temp Sensor
34291	Diagnostic: Over Voltage Circuit 1	0 = Normal 1 = In Alarm	Line Voltage Sensing
34292	Diagnostic: Phase Loss Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
34293	Diagnostic: Phase Reversal Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
34294	Diagnostic: Power Loss Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
34295	Diagnostic: Purge Carbon Regen Temp Limit Exceeded Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank
34296	Diagnostic: Purge Carbon Regen Temp Not Satisfied Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank
34297	Diagnostic: Purge Carbon Regen Temperature Too Low Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank
34298	Diagnostic: Purge Carbon Tank Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank
34299	Diagnostic: Purge Cprsr Suction Rfght Temp Sensor Circuit 1	0 = Normal 1 = In Alarm	Purge
34300	Diagnostic: Purge Daily Pumpout Limit Exceeded Circuit 1	0 = Normal 1 = In Alarm	Purge
34301	Diagnostic: Purge Liquid Level Too High Continuously Circuit 1	0 = Normal 1 = In Alarm	Purge
34302	Diagnostic: Purge Liquid Level Too High Warning Circuit 1	0 = Normal 1 = In Alarm	Purge
34303	Diagnostic: Purge Regen Cooldown Temp Too High Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank
34304	Diagnostic: Refrigerant Monitor Input	0 = Normal 1 = In Alarm	Refrigerant Monitor
34305	Diagnostic: Restart Inhibit	0 = Normal 1 = In Alarm	Standard
34306	Diagnostic: Severe Current Unbalance Circuit 1	0 = Normal 1 = In Alarm	Line Voltage Sensing
34307	Diagnostic: Software Error 1001: Call Trane Service	0 = Normal 1 = In Alarm	Standard
34308	Diagnostic: Software Error 1004: Call Trane Service	0 = Normal 1 = In Alarm	Standard



Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34309	Diagnostic: Starter Comm Loss: Main Processor Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
34310	Diagnostic: Starter Contactor Interrupt Failure Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
34311	Diagnostic: Starter Did Not Fully Accelerate Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
34312	Diagnostic: Starter Did Not Transition Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
34313	Diagnostic: Starter Dry Run Test Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
34314	Diagnostic: Starter Failed to Arm/Start Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
34315	Diagnostic: Starter Fault Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
34316	Diagnostic: Starter Fault Type I Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
34317	Diagnostic: Starter Fault Type II Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
34318	Diagnostic: Starter Fault Type III Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
34319	Diagnostic: Starter Module Memory Error Type 1 Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
34320	Diagnostic: Starter Module Memory Error Type 2 Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
34321	Diagnostic: Transition Complete Input Opened Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
34322	Diagnostic: Transition Complete Input Shorted Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
34323	Diagnostic: Under Voltage Circuit 1	0 = Normal 1 = In Alarm	Line Voltage Sensing
34324	Diagnostic: Unexpected Differential Lube Pressure Circuit 1	0 = Normal 1 = In Alarm	CVHS
34325	Diagnostic: Unexpected Differential Oil Pressure Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M CVGF
34326	Diagnostic: Unexpected Starter Shutdown Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
34327	Diagnostic: Vibration Sensor Input	0 = Normal 1 = In Alarm	Vibration Sensor
34328	Comm Loss: Evap Refrigerant Pressure Circuit 1	0 = Normal 1 = In Alarm	Evap Pressure Sensor
34329	Diagnostic: Evaporator Refrigerant Pressure Xdcr Circuit 1	0 = Normal 1 = In Alarm	Evap Pressure Sensor
34330	Diagnostic: Inverted Heat Recovery Approach Temperature Circuit 1	0 = Normal 1 = In Alarm	Heat Recovery

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Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34331	Comm Loss: Sporlan Automatic Econ Valve Circuit 1	0 = Normal 1 = In Alarm	Sporlan Automatic Valve
34332	Comm Loss: Sporlan Automatic Cond Valve Circuit 1	0 = Normal 1 = In Alarm	Sporlan Automatic Valve



Modbus Register	Object Name	Object States	Configuration Dependency
43011	Base Loading Request	0 = Off 1 = On	Base Loading
43012	Reset Diagnostic	0 = Normal 1 = Reset	Standard
43013	Evaporator Water Pump Request BAS	0 = Auto 1 = On	Standard
43014	Condenser Water Pump Request BAS	0 = Auto 1 = On	Standard
43015	Chiller Auto Stop Command BAS	0 = Stop 1 = Auto	Standard
43016	Energy Consumption Reset	0 = Accumulating 1 = Reset	Energy Meter EM Starters w/Line Voltage Sensing Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000) TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755)



Modbus Register	Object Name	Object States	Configuration Dependency
32011	Running Mode	1 = Chiller Off 2 = Chiller In Start Mode 3 = Chiller In Run Mode 4 = Chiller In Pre-Shutdown Mode 5 = Chiller In Service Mode	Standard
32012	Operating Mode	1 = Cool 2 = Heat 3 = Ice Making 4 = Free Cooling	Standard
32013	Chiller Setpoint Source	1 = BAS 2 = External 3 = Front Panel	Standard
32014	Model Information [GEN2]	1 = CVHF 2 = CVGF 3 = CVHS 11 = CTVD 12 = CVR 13 = CVHH 14 = CDHH 20 = CVHM 38 = CVHE 39 = CVHG 40 = CVHL	Standard
32015	Cooling Type	1 = Water Cooled	Standard
32016	Refrigerant Type	1 = R-11 2 = R-12 3 = R-22 4 = R-123 5 = R-134a 8 = R-113 9 = R-114 10 = R-500 11 = R-502 13 = R-513A 14 = R-1233zd(E) 15 = R-514A	Standard
32017	Manufacturing Location	1 = Field Applied 2 = La Crosse 15 = Taicang	Standard

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Modbus Register	Object Name	Object States	Configuration Dependency
42011	Chiller Mode Command BAS	1 = Cool 2 = Heat 3 = Ice Making 4 = Free Cooling	Standard

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Modbus Register	Object Name	Units	Configuration Dependency
30011	Active Chilled Water Setpoint	Temperature	Standard
30013	Chilled Water Setpoint Status	Temperature	Standard
30015	Active Base Loading Setpoint	Percentage	Base Loading
30017	Hot Water Setpoint Active	Temperature	Hot Water Control
30019	Calculated Chiller Capacity	Power, Cooling	Evap Water Flow Sensing
30021	Active Cool/Heat Setpoint Temperature	Temperature	Standard
30023	Evaporator Leaving Water Temperature	Temperature	Standard
30025	Evaporator Entering Water Temperature	Temperature	Standard
30027	Condenser Entering Water Temperature	Temperature	Standard
30029	Condenser Leaving Water Temperature	Temperature	Standard
30031	Evaporator Water Flow Rate	Flow, Water	Evap Water Flow Sensing
30033	Evaporator Differential Water Pressure	Differential Pressure	Evap Water Flow Differential Pressure or Dual Pressure Sensors
30035	Condenser Water Flow Rate	Flow, Water	Cond Water Flow Sensing
30037	Condenser Differential Water Pressure	Differential Pressure	Cond Water Flow Differential Pressure or Dual Pressure Sensors
30039	AFD Last Diagnostic Code Ckt1	None	AFD
30041	Unit Source ID	None	Standard
30043	Refrigerant Monitor	Concentration	Refrigerant Monitor
30045	Evaporator Refrigerant Pressure Circuit 1	Pressure	Standard
30047	Condenser Refrigerant Pressure Circuit 1	Pressure	Standard
30049	Differential Refrigerant Pressure Circuit 1	Differential Pressure	Standard
30051	Low Side Oil Pressure - Compressor 1A	Pressure	Standard
30053	High Side Oil Pressure - Compressor 1A	Pressure	Standard
30055	Oil Differential Pressure Circuit 1	Differential Pressure	Standard
30057	Oil Temperature - Compressor 1A	Temperature	Standard
30059	Evaporator Saturated Refrigerant Temperature Circuit 1	Temperature	Standard
30061	Condenser Saturated Refrigerant Temperature Circuit 1	Temperature	Standard
30063	Refrigerant Discharge Temperature - Compressor 1A	Temperature	Compressor Refrigerant Discharge Temperature
30065	Inlet Guide Vane 1 Percent Open Circuit 1	Percentage	Standard
30067	Inlet Guide Vane 2 Percent Open Circuit 1	Percentage	Dual IGV
30069	Purge Carbon Tank Temperature Circuit 1	Temperature	Purge w/Carbon Tank
30071	Purge Liquid Temperature Circuit 1	Temperature	Purge
30073	Purge Refrigerant Compressor Suction Temperature Circuit 1	Temperature	Purge



Modbus Register	Object Name	Units	Configuration Dependency
30075	Time Until Next Purge Run Circuit 1	None	Purge
30077	Purge Pumpout Chiller On % (7 Days) Circuit 1	Percentage	Purge
30079	Purge Pumpout Chiller Off % (7 Days) Circuit 1	Percentage	Purge
30081	Purge 24 Hour Pumpout Circuit 1	None	Purge
30083	Purge Pumpout - Life Circuit 1	None	Purge
30085	Refrigeration - Life Circuit 1	None	Purge
30087	Starts - Compressor 1A	None	Standard
30089	Run Time - Compressor 1A	None	Standard
30091	Phase AB Voltage - Compressor 1A	Voltage	EM Starter AFD
30093	Phase BC Voltage - Compressor 1A	Voltage	EM Starter AFD
30095	Phase CA Voltage - Compressor 1A	Voltage	EM Starter AFD
30097	Starter Average Phase Volt Circuit 1	Voltage	EM Starter AFD
30099	Line 1 Current - Compressor 1A	Current	EM Starter AFD
30101	Line 2 Current - Compressor 1A	Current	EM Starter AFD
30103	Line 3 Current - Compressor 1A	Current	EM Starter AFD
30105	Average Line Current Circuit 1	Current	EM Starter AFD
30107	Line 1 Current RLA - Compressor 1A	Percentage	EM Starter AFD
30109	Line 2 Current RLA - Compressor 1A	Percentage	EM Starter AFD
30111	Line 3 Current RLA - Compressor 1A	Percentage	EM Starter AFD
30113	Actual Running Capacity	Percentage	EM Starter AFD Energy Meter
30117	Starter Load Power Factor - Compressor 1A	None	EM Starter AFD
30119	Inboard Bearing Temperature Circuit 1	Temperature	Bearing Temperature Sensor
30121	Outboard Bearing Temperature Circuit 1	Temperature	Bearing Temperature Sensor
30123	Motor Winding Temperature 1 Circuit 1	Temperature	Standard
30125	Motor Winding Temperature 2 Circuit 1	Temperature	Standard
30127	Motor Winding Temperature 3 Circuit 1	Temperature	Standard
30129	AFD Frequency Circuit 1	None	AFD
30131	AFD Transistor Temperature Circuit 1	Temperature	AFD
30133	Drive Average Line Current Circuit 1	Current	AFD w/Line Side Items
30135	Drive Line Frequency Circuit 1	None	AFD w/Line Side Items
30137	Drive Motor Voltage Circuit 1	Voltage	AFD w/Line Side Items



Modbus Register	Object Name	Units	Configuration Dependency
30139	Drive Inverter Base Temperature Circuit 1	Temperature	AFD w/Line Side Items
30141	Drive Rectifier Base Temperature Circuit 1	Temperature	AFD w/Line Side Items
30143	Drive Output Power Circuit 1	Power, Electrical	AFD
30145	Frequency Command Circuit 1	None	AFD
30147	Outboard Bearing Pad Temperature #1 Ckt1	Temperature	CDHH
30149	Outboard Bearing Pad Temperature #2 Ckt1	Temperature	CDHH
30151	Outboard Bearing Pad Temperature #3 Ckt1	Temperature	CDHH
30153	Restart Inhibit Time Remaining Circuit 1	None	Standard
30155	Chiller Design Capacity	Power, Cooling	Standard
30157	Entering Condenser Water Pressure	Pressure	Condenser Water Flow Differential Pressure Sensors
30159	Entering Evaporator Water Pressure	Pressure	Evaporator Water Flow Differential Pressure Sensors
30161	Leaving Condenser Water Pressure	Pressure	Condenser Water Flow Differential Pressure Sensors
30163	Leaving Evaporator Water Pressure	Pressure	Evaporator Water Flow Differential Pressure Sensors
30165	Condenser Approach Temperature Circuit 1	Temperature	Standard
30167	Evaporator Approach Temperature Circuit 1	Temperature	Standard
30169	Drive DC Bus Voltage Circuit 1	Voltage	Low Voltage AFD
30171	Drive Motor Average Current RLA Circuit 1	Percentage	EM Starter AFD
30175	Active Demand Limit Setpoint	Percentage	Ice Building
30177	Active Demand Limit Setpoint	Percentage	Not Ice Building
30179	Demand Limit Setpoint Status	Percentage	Ice Building
30181	Number of Circuits	None	Standard
30183	Number of Compressors Circuit 1	None	Standard
30185	Number of Compressors Circuit 2	None	Standard
30187	Low Side Oil Pressure - Compressor 2A	Pressure	Standard
30189	High Side Oil Pressure - Compressor 2A	Pressure	Standard
30191	Oil Differential Pressure Circuit 2	Differential Pressure	Standard
30193	Oil Temperature - Compressor 2A	Temperature	Standard
30195	Evaporator Saturated Refrigerant Temperature Circuit 2	Temperature	Standard
30197	Condenser Saturated Refrigerant Temperature Circuit 2	Temperature	Standard
30199	Refrigerant Discharge Temperature - Compressor 2A	Temperature	Compressor Refrigerant Discharge Temperature
30201	Inlet Guide Vane 1 Percent Open Circuit 2	Percentage	Standard
30203	Inlet Guide Vane 2 Percent Open Circuit 2	Percentage	IGV2



Modbus Register	Object Name	Units	Configuration Dependency
30205	Purge Carbon Tank Temperature Circuit 2	Temperature	Purge w/Carbon Tank
30207	Purge Liquid Temperature Circuit 2	Temperature	Purge
30209	Purge Refrigerant Compressor Suction Temperature Circuit 2	Temperature	Purge
30211	Time Until Next Purge Run Circuit 2 (in seconds)	None	Purge
30213	Refrigeration - Life Circuit 2	None	Purge
30215	Starts - Compressor 2A	None	Standard
30217	Run Time - Compressor 2A (in seconds)	None	Standard
30219	Starter Average Phase Volt Circuit 2	Voltage	EM Starter AFD
30221	Line 1 Current - Compressor 2A	Current	EM Starter AFD
30223	Line 2 Current - Compressor 2A	Current	EM Starter AFD
30225	Line 3 Current - Compressor 2A	Current	EM Starter AFD
30227	Average Line Current Circuit 2	Current	EM Starter AFD
30229	Drive Average Line Current Circuit 2	Current	AFD w/Line Side Items
30231	Starter Load Power Factor - Compressor 2A	None	EM Starter AFD
30233	Inboard Bearing Temperature Circuit 2	Temperature	Bearing Temperature Sensor
30235	Outboard Bearing Temperature Circuit 2	Temperature	Bearing Temperature Sensor
30237	Motor Winding Temperature 1 Circuit 2	Temperature	Standard
30239	Motor Winding Temperature 2 Circuit 2	Temperature	Standard
30241	Motor Winding Temperature 3 Circuit 2	Temperature	Standard
30243	AFD Transistor Temperature Circuit 2	Temperature	AFD
30245	Heat Recovery Entering Water Temp	Temperature	Heat Recovery
30247	Heat Recovery Leaving Water Temp	Temperature	Heat Recovery
30249	Purge Pumpout Chiller On % (7 Days) Circuit 2	Percentage	Purge
30251	Purge Pumpout Chiller Off % (7 Days) Circuit 2	Percentage	Purge
30253	Purge 24 Hour Pumpout Circuit 2 (in seconds)	None	Purge
30255	Phase AB Voltage - Compressor 2A	Voltage	EM Starter AFD
30257	Phase BC Voltage - Compressor 2A	Voltage	EM Starter AFD
30259	Phase CA Voltage - Compressor 2A	Voltage	EM Starter AFD
30261	Purge Pumpout - Life Circuit 2 (in seconds)	None	Purge
30263	Drive Motor Average Current RLA Circuit 2	Percentage	AFD w/Line Side Items
30265	Drive Inverter Base Temperature Circuit 2	Temperature	AFD w/Line Side Items
30267	Drive Rectifier Base Temperature Circuit 2	Temperature	AFD w/Line Side Items

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Modbus Register	Object Name	Units	Configuration Dependency
30269	Outboard Bearing Pad Temperature #1 Ckt2	Temperature	CDHH
30271	Outboard Bearing Pad Temperature #2 Ckt2	Temperature	CDHH
30273	Outboard Bearing Pad Temperature #3 Ckt2	Temperature	CDHH
30275	Evaporator Refrigerant Pressure Circuit 2	Pressure	Standard
30277	Condenser Refrigerant Pressure Circuit 2	Pressure	Standard
30279	Differential Refrigerant Pressure Circuit 2	Differential Pressure	Standard
30281	Restart Inhibit Time Remaining Circuit 2	None	Standard
30283	AFD Frequency Circuit 2	None	AFD
30285	Drive Line Frequency Circuit 2	None	AFD w/Line Side Items
30287	Frequency Command Circuit 2	None	AFD
30289	Drive DC Bus Voltage Circuit 2	Voltage	Low Voltage AFD
30291	Drive Output Power Circuit 2	Power, Electrical	AFD
30293	Line 1 Current RLA - Compressor 2A	Percentage	EM Starter AFD
30295	Line 2 Current RLA - Compressor 2A	Percentage	EM Starter AFD
30297	Line 3 Current RLA - Compressor 2A	Percentage	EM Starter AFD
30299	Drive Current Line 1 Circuit 1	Current	AFD w/Line Side Items
30301	Drive Current Line 2 Circuit 1	Current	AFD w/Line Side Items
30303	Drive Current Line 3 Circuit 1	Current	AFD w/Line Side Items
30305	Drive Current Line 1 Circuit 2	Current	AFD w/Line Side Items
30307	Drive Current Line 2 Circuit 2	Current	AFD w/Line Side Items
30309	Drive Current Line 3 Circuit 2	Current	AFD w/Line Side Items
30311	Starter Input Power Consumption Ckt1	Power, Electrical	EM Starter AFD
30313	Starter Input Power Consumption Ckt2	Power, Electrical	EM Starter AFD
30315	Drive Motor Voltage Circuit 2	Voltage	AFD w/Line Side Items
30317	Chiller Control Signal	Percentage	Standard
30319	Head Pressure Control Status	Percentage	Head Pressure Control
30321	AFD Last Diagnostic Code Ckt2	None	AFD
30323	Voltage L1-L2 Circuit 1	Voltage	Energy Meter
30325	Voltage L1-L3 Circuit 1	Voltage	Energy Meter
30327	Voltage L2-L3 Circuit 1	Voltage	Energy Meter
30329	Voltage L1-L2 Circuit 2	Voltage	Energy Meter
30331	Voltage L1-L3 Circuit 2	Voltage	Energy Meter



Modbus Register	Object Name	Units	Configuration Dependency
30333	Voltage L2-L3 Circuit 2	Voltage	Energy Meter
30335	Average Line Voltage Circuit 1	Voltage	Energy Meter
30337	Average Line Voltage Circuit 2	Voltage	Energy Meter
30339	Line Current L1 Circuit 1	Current	Energy Meter
30341	Line Current L2 Circuit 1	Current	Energy Meter
30343	Line Current L3 Circuit 1	Current	Energy Meter
30345	Line Current L1 Circuit 2	Current	Energy Meter
30347	Line Current L2 Circuit 2	Current	Energy Meter
30349	Line Current L3 Circuit 2	Current	Energy Meter
30351	Unit Average Line Current Circuit 1	Current	Energy Meter
30353	Unit Average Line Current Circuit 2	Current	Energy Meter
30355	Line Frequency Circuit 1	None	Energy Meter
30357	Line Frequency Circuit 2	None	Energy Meter
30359	Power Factor Circuit 1	None	Energy Meter
30361	Power Factor Circuit 2	None	Energy Meter
30363	Power Demand Circuit 1	Power, Electrical	Energy Meter
30365	Power Demand Circuit 2	Power, Electrical	Energy Meter
30367	Total Real Power	Power, Electrical	Energy Meter
30369	Unit Power Consumption	Power, Electrical	Energy Meter
30371	Energy Consumption	Energy, Electrical	Energy Meter
30373	Energy Consumption Lifetime	Energy, Electrical	Energy Meter
30375	Condenser Approach Temperature Circuit 2	Temperature	Standard
30377	Evaporator Approach Temperature Circuit 2	Temperature	Standard

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Modbus Register	Object Name	Units	Configuration Dependency
40011	Chilled Water Setpoint	Temperature	Standard
40013	Demand Limit Setpoint	Percent	Standard
40015	Hot Water Setpoint	Temperature	Hot Water Control
40017	Base Loading Setpoint	Percent	Base Loading

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Modbus Register	Object Name	Object States	Configuration Dependency
33011	Manual Override Exists	0 = Off 1 = On	Standard
33012	Base Loading Request Active	0 = Inactive 1 = Active	Base Loading
33013	Run Enabled	0 = Run Not Enabled 1 = Run Enabled	Standard
33014	Local Setpoint Control	0 = Remote Control 1 = Local Control	Standard
33015	Maximum Capacity	0 = Off 1 = On	Standard
33016	Capacity Limited	0 = Not Limited 1 = Limited	Standard
33017	Head Relief Request	0 = Off 1 = On	Standard
33018	Purge Compressor Relay Circuit 1	0 = Off 1 = On	Purge
33019	Pump Out Relay Circuit 1	0 = Off 1 = On	Purge
33020	Purge Regenerating Valve Solenoid Circuit 1	0 = Off 1 = On	Purge w/Carbon Tank
33021	Chiller Running State	0 = Off 1 = On	Standard
33022	Evaporator Water Pump Request	0 = Off 1 = On	Standard
33023	Evaporator Water Flow Status	0 = No Flow 1 = Flow	Standard
33024	Condenser Water Pump Request	0 = Off 1 = On	Standard
33025	Condenser Water Flow Status	0 = No Flow 1 = Flow	Standard
33026	Diagnostic Present	0 = Normal 1 = In Alarm	Standard
33027	Diagnostic Shutdown Present	0 = Normal 1 = In Alarm	Standard
33028	Diagnostic: Manual Reset Required	0 = Normal 1 = In Alarm	Standard
33029	Diagnostic: Local Manual Reset Required	0 = Normal 1 = In Alarm	Standard
33030	Diagnostic Present: Information	0 = Normal 1 = In Alarm	Standard
33031	Diagnostic Present: Advisory	0 = Normal 1 = In Alarm	Standard
33032	Diagnostic Present: Critical	0 = Normal 1 = In Alarm	Standard

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Modbus Register	Object Name	Object States	Configuration Dependency
33033	Diagnostic Present: Service Required	0 = Normal 1 = In Alarm	Standard
33034	Compressor 1A Status	0 = Off 1 = Running	Standard
33035	Front Panel Auto Stop	0 = Stop 1 = Auto	Standard
33036	External Auto Stop Input Status	0 = Stop 1 = Auto	Standard
33037	Purge Compressor Relay Circuit 2	0 = Off 1 = On	Purge
33038	Purge Regenerating Valve Solenoid Circuit 2	0 = Off 1 = On	Purge w/Carbon Tank
33039	Pump Out Relay Circuit 2	0 = Off 1 = On	Purge
33040	Compressor 2A Status	0 = Off 1 = Running	Standard
33041	Emergency Stop	0 = Auto 1 = Emergency Stop - Manual Reset Required	Standard
33042	Circuit 1 Cooling Available	0 = No 1 = Yes	Standard
33043	Circuit 2 Cooling Available	0 = No 1 = Yes	Standard
33044	Circuit 1 Lockout Front Panel	0 = Normal 1 = Locked Out	Standard
33045	Circuit 2 Lockout Front Panel	0 = Normal 1 = Locked Out	Standard
33046	Circuit 1 Lockout External	0 = Normal 1 = Locked Out	Standard
33047	Circuit 2 Lockout External	0 = Normal 1 = Locked Out	Standard
33048	Circuit 1 Lockout Active	0 = Normal 1 = Locked Out	Standard
33049	Circuit 2 Lockout Active	0 = Normal 1 = Locked Out	Standard



Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34001	Diagnostic: AFD Comm Loss: Main Processor Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
34002	Diagnostic: AFD Comm Loss: Main Processor Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
34003	Diagnostic: AFD Control Board Memory Error Type 2 Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34004	Diagnostic: AFD Control Board Memory Error Type 2 Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34005	Diagnostic: AFD DPI Communication Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34006	Diagnostic: AFD DPI Communication Failure Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34007	Diagnostic: AFD Fatal Software Error Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34008	Diagnostic: AFD Fatal Software Error Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34009	Diagnostic: AFD General Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
34010	Diagnostic: AFD General Failure Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
34011	Diagnostic: AFD Ground Fault Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
34012	Diagnostic: AFD Ground Fault Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
34013	Diagnostic: AFD High Bus Voltage Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34014	Diagnostic: AFD High Bus Voltage Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34015	Diagnostic: AFD High Temperature Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34016	Diagnostic: AFD High Temperature Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34017	Diagnostic: AFD I/O Board Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34018	Diagnostic: AFD I/O Board Failure Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34019	Diagnostic: AFD Instantaneous Current Overload Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
34020	Diagnostic: AFD Instantaneous Current Overload Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)



Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34021	Diagnostic: AFD Interrupt Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
34022	Diagnostic: AFD Interrupt Failure Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
34023	Diagnostic: AFD Motor Current Overload Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
34024	Diagnostic: AFD Motor Current Overload Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
34025	Diagnostic: AFD Motor Short Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34026	Diagnostic: AFD Motor Short Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34027	Diagnostic: AFD Output Phase Loss Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
34028	Diagnostic: AFD Output Phase Loss Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
34029	Diagnostic: AFD Power Intfc Controller Board Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34030	Diagnostic: AFD Power Intfc Controller Board Failure Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34031	Diagnostic: AFD Power Loss Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
34032	Diagnostic: AFD Power Loss Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
34033	Diagnostic: AFD Power Structure Board Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34034	Diagnostic: AFD Power Structure Board Failure Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34035	Diagnostic: AFD RS485 Board Memory Error Type 2 Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34036	Diagnostic: AFD RS485 Board Memory Error Type 2 Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34039	Diagnostic: At Speed Input Opened Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Non-Comm AFD Solid State Starter
34040	Diagnostic: At Speed Input Opened Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Non-Comm AFD Solid State Starter
34041	Diagnostic: At Speed Input Shorted Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Non-Comm AFD Solid State Starter
34042	Diagnostic: At Speed Input Shorted Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Non-Comm AFD Solid State Starter
34043	Diagnostic: Check Clock	0 = Normal 1 = In Alarm	Standard
34044	Diagnostic: Check Oil Filter Circuit 1	0 = Normal 1 = In Alarm	Standard



Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34045	Diagnostic: Check Oil Filter Circuit 2	0 = Normal 1 = In Alarm	Standard
34046	Diagnostic: Check Oil Heater Circuit 1	0 = Normal 1 = In Alarm	Standard
34047	Diagnostic: Check Oil Heater Circuit 2	0 = Normal 1 = In Alarm	Standard
34048	Comm Loss: Adaptive Frequency Drive Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
34049	Comm Loss: Adaptive Frequency Drive Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000) Remote Mount Comm AFD - VFDB (PF6000)
34050	Comm Loss: AFD Speed Signal VDC Output Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Non-Comm AFD
34051	Comm Loss: AFD Speed Signal VDC Output Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Non-Comm AFD
34052	Comm Loss: Compressor Motor % RLA Output Circuit 1	0 = Normal 1 = In Alarm	% RLA Output
34053	Comm Loss: Compressor Motor % RLA Output Circuit 2	0 = Normal 1 = In Alarm	% RLA Output
34054	Comm Loss: Cond Diff Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement
34055	Comm Loss: Cond Head Press Cntrl Output	0 = Normal 1 = In Alarm	Head Pressure Control
34056	Comm Loss: Cond High Pressure Cutout Circuit 1	0 = Normal 1 = In Alarm	Standard
34057	Comm Loss: Cond High Pressure Cutout Circuit 2	0 = Normal 1 = In Alarm	Standard
34058	Comm Loss: Cond Refrigerant Pressure Circuit 1	0 = Normal 1 = In Alarm	Condenser Pressure Sensor
34059	Comm Loss: Cond Refrigerant Pressure Circuit 2	0 = Normal 1 = In Alarm	Condenser Pressure Sensor
34060	Comm Loss: Cond Rfgt Pressure Output Circuit 1	0 = Normal 1 = In Alarm	Condenser Refrigerant Pressure Output
34061	Comm Loss: Cond Rfgt Pressure Output Circuit 2	0 = Normal 1 = In Alarm	Condenser Refrigerant Pressure Output
34062	Comm Loss: Cond Saturated Rfgt Temp Circuit 1	0 = Normal 1 = In Alarm	Standard
34063	Comm Loss: Cond Saturated Rfgt Temp Circuit 2	0 = Normal 1 = In Alarm	Standard
34064	Comm Loss: Condenser Entering Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensors
34065	Comm Loss: Condenser Entering Water Temp	0 = Normal 1 = In Alarm	Standard
34066	Comm Loss: Condenser Leaving Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensors



Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34067	Comm Loss: Condenser Leaving Water Temp	0 = Normal 1 = In Alarm	Standard
34068	Comm Loss: Condenser Liquid Level Sensor Circuit 1	0 = Normal 1 = In Alarm	Economizer Bypass
34069	Comm Loss: Condenser Liquid Level Sensor Circuit 2	0 = Normal 1 = In Alarm	Economizer Bypass
34070	Comm Loss: Condenser Water Flow Switch	0 = Normal 1 = In Alarm	Standard
34071	Comm Loss: Condenser Water Pump Relay	0 = Normal 1 = In Alarm	Standard
34072	Comm Loss: Cprsr Discharge Rfgt Temp Circuit 1	0 = Normal 1 = In Alarm	Compressor Refrigerant Discharge Temp Sensor
34073	Comm Loss: Cprsr Discharge Rfgt Temp Circuit 2	0 = Normal 1 = In Alarm	Compressor Refrigerant Discharge Temp Sensor
34074	Comm Loss: Economizer Bypass Valve Circuit 1	0 = Normal 1 = In Alarm	Economizer Bypass
34075	Comm Loss: Economizer Bypass Valve Circuit 2	0 = Normal 1 = In Alarm	Economizer Bypass
34076	Comm Loss: Emergency Stop	0 = Normal 1 = In Alarm	Standard
34077	Comm Loss: Energy Meter 1 Circuit 1	0 = Normal 1 = In Alarm	Energy Meter
34078	Comm Loss: Energy Meter 2 Circuit 2	0 = Normal 1 = In Alarm	Energy Meter
34079	Comm Loss: Evap Diff Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement
34080	Comm Loss: Evap Entering Water Temp	0 = Normal 1 = In Alarm	Standard
34081	Comm Loss: Evap Leaving Water Temp	0 = Normal 1 = In Alarm	Standard
34082	Comm Loss: Evap Refrigerant Pressure Circuit 1	0 = Normal 1 = In Alarm	Standard
34083	Comm Loss: Evap Refrigerant Pressure Circuit 2	0 = Normal 1 = In Alarm	Standard
34084	Comm Loss: Evap Sat Refrig Temp Circuit 1	0 = Normal 1 = In Alarm	Standard
34085	Comm Loss: Evap Sat Refrig Temp Circuit 2	0 = Normal 1 = In Alarm	Standard
34086	Comm Loss: Evaporator Entering Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Dual Pressure Sensors
34087	Comm Loss: Evaporator Leaving Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Dual Pressure Sensors
34088	Comm Loss: Evaporator Water Flow Switch	0 = Normal 1 = In Alarm	Standard



Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34089	Comm Loss: Evaporator Water Pump Relay	0 = Normal 1 = In Alarm	Standard
34090	Comm Loss: Ext Base Loading Command	0 = Normal 1 = In Alarm	Base Loading
34091	Comm Loss: Ext Base Loading Setpoint	0 = Normal 1 = In Alarm	Base Loading
34092	Comm Loss: Ext Chilled/Hot Water Setpoint	0 = Normal 1 = In Alarm	External Chilled Water Setpoint
34093	Comm Loss: Ext Demand Limit Setpoint	0 = Normal 1 = In Alarm	External Demand Limit Setpoint
34094	Comm Loss: External Auto/Stop	0 = Normal 1 = In Alarm	Standard
34095	Comm Loss: External Ckt Lockout Circuit 1	0 = Normal 1 = In Alarm	Standard
34096	Comm Loss: External Ckt Lockout Circuit 2	0 = Normal 1 = In Alarm	Standard
34098	Comm Loss: External Hot Water Command	0 = Normal 1 = In Alarm	Hot Water Control
34099	Comm Loss: External Ice Building Command	0 = Normal 1 = In Alarm	Ice Building
34100	Comm Loss: Generator Fault Input Circuit 1	0 = Normal 1 = In Alarm	Engine/Generator
34101	Comm Loss: Generator Fault Input Circuit 2	0 = Normal 1 = In Alarm	Engine/Generator
34102	Comm Loss: Generator Speed Signal Output Circuit 1	0 = Normal 1 = In Alarm	Engine/Generator
34103	Comm Loss: Generator Speed Signal Output Circuit 2	0 = Normal 1 = In Alarm	Engine/Generator
34104	Comm Loss: Generator Start/Stop Relay Circuit 1	0 = Normal 1 = In Alarm	Engine/Generator
34105	Comm Loss: Generator Start/Stop Relay Circuit 2	0 = Normal 1 = In Alarm	Engine/Generator
34106	Comm Loss: Generator Up To Speed Input Circuit 1	0 = Normal 1 = In Alarm	Engine/Generator
34107	Comm Loss: Generator Up To Speed Input Circuit 2	0 = Normal 1 = In Alarm	Engine/Generator
34108	Comm Loss: Heat Recovery Entering Water Temp	0 = Normal 1 = In Alarm	Heat Recovery
34109	Comm Loss: Heat Recovery Leaving Water Temp	0 = Normal 1 = In Alarm	Heat Recovery
34113	Comm Loss: Ice Building Relay	0 = Normal 1 = In Alarm	Ice Building
34114	Comm Loss: IGV First Stage Actuator Circuit 1	0 = Normal 1 = In Alarm	Standard

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34115	Comm Loss: IGV First Stage Actuator Circuit 2	0 = Normal 1 = In Alarm	Standard
34116	Comm Loss: IGV Second Stage Actuator Circuit 1	0 = Normal 1 = In Alarm	IGV Actuator - Dual
34117	Comm Loss: IGV Second Stage Actuator Circuit 2	0 = Normal 1 = In Alarm	IGV Actuator - Dual
34118	Comm Loss: Inboard Bearing Temperature Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensors
34119	Comm Loss: Inboard Bearing Temperature Circuit 2	0 = Normal 1 = In Alarm	Bearing Temp Sensors
34120	Comm Loss: Motor Winding Temperature 1 Circuit 1	0 = Normal 1 = In Alarm	Standard
34121	Comm Loss: Motor Winding Temperature 1 Circuit 2	0 = Normal 1 = In Alarm	Standard
34122	Comm Loss: Motor Winding Temperature 2 Circuit 1	0 = Normal 1 = In Alarm	Standard
34123	Comm Loss: Motor Winding Temperature 2 Circuit 2	0 = Normal 1 = In Alarm	Standard
34124	Comm Loss: Motor Winding Temperature 3 Circuit 1	0 = Normal 1 = In Alarm	Standard
34125	Comm Loss: Motor Winding Temperature 3 Circuit 2	0 = Normal 1 = In Alarm	Standard
34126	Comm Loss: Oil Cooler Solenoid Circuit 1	0 = Normal 1 = In Alarm	Oil Cooler Solenoid Valve
34127	Comm Loss: Oil Cooler Solenoid Circuit 2	0 = Normal 1 = In Alarm	Oil Cooler Solenoid Valve
34128	Comm Loss: Oil Pump Discharge Pressure Circuit 1	0 = Normal 1 = In Alarm	Standard
34129	Comm Loss: Oil Pump Discharge Pressure Circuit 2	0 = Normal 1 = In Alarm	Standard
34130	Comm Loss: Oil Tank Heater 4E1 Relay Circuit 1	0 = Normal 1 = In Alarm	CDHH
34131	Comm Loss: Oil Tank Heater 4E1 Relay Circuit 2	0 = Normal 1 = In Alarm	CDHH
34132	Comm Loss: Oil Tank Heater 4E2 Relay Circuit 1	0 = Normal 1 = In Alarm	CDHH
34133	Comm Loss: Oil Tank Heater 4E2 Relay Circuit 2	0 = Normal 1 = In Alarm	CDHH
34134	Comm Loss: Oil Tank Heater Relay Circuit 1	0 = Normal 1 = In Alarm	CDHF,G
34135	Comm Loss: Oil Tank Heater Relay Circuit 2	0 = Normal 1 = In Alarm	CDHF,G
34136	Comm Loss: Oil Tank Pressure Circuit 1	0 = Normal 1 = In Alarm	Standard

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34137	Comm Loss: Oil Tank Pressure Circuit 2	0 = Normal 1 = In Alarm	Standard
34138	Comm Loss: Oil Tank Temperature Circuit 1	0 = Normal 1 = In Alarm	Standard
34139	Comm Loss: Oil Tank Temperature Circuit 2	0 = Normal 1 = In Alarm	Standard
34140	Comm Loss: Oil Vent Line Circuit 1	0 = Normal 1 = In Alarm	CDHH
34141	Comm Loss: Oil Vent Line Circuit 2	0 = Normal 1 = In Alarm	CDHH
34142	Comm Loss: Oil/Refrigerant Pump Relay Circuit 1	0 = Normal 1 = In Alarm	CDHF,G
34143	Comm Loss: Oil/Refrigerant Pump Relay Circuit 2	0 = Normal 1 = In Alarm	CDHF,G
34144	Comm Loss: Outboard Bearing Pad Temp 1 Circuit 1	0 = Normal 1 = In Alarm	CDHH
34145	Comm Loss: Outboard Bearing Pad Temp 1 Circuit 2	0 = Normal 1 = In Alarm	CDHH
34146	Comm Loss: Outboard Bearing Pad Temp 2 Circuit 1	0 = Normal 1 = In Alarm	CDHH
34147	Comm Loss: Outboard Bearing Pad Temp 2 Circuit 2	0 = Normal 1 = In Alarm	CDHH
34148	Comm Loss: Outboard Bearing Pad Temp 3 Circuit 1	0 = Normal 1 = In Alarm	CDHH
34149	Comm Loss: Outboard Bearing Pad Temp 3 Circuit 2	0 = Normal 1 = In Alarm	CDHH
34150	Comm Loss: Outboard Bearing Temperature Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensors
34151	Comm Loss: Outboard Bearing Temperature Circuit 2	0 = Normal 1 = In Alarm	Bearing Temp Sensors
34152	Comm Loss: Outdoor Air Temperature	0 = Normal 1 = In Alarm	Outdoor Air Temp Sensor
34153	Comm Loss: Programmable Relay Board 1	0 = Normal 1 = In Alarm	Operating Status Programmable Relays
34154	Comm Loss: Programmable Relay Board 2	0 = Normal 1 = In Alarm	Operating Status Programmable Relays
34155	Comm Loss: Purge Alarm Relay Circuit 1	0 = Normal 1 = In Alarm	Purge
34156	Comm Loss: Purge Alarm Relay Circuit 2	0 = Normal 1 = In Alarm	Purge
34157	Comm Loss: Purge Carbon Tank Heater Rly Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
34158	Comm Loss: Purge Carbon Tank Heater Rly Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank

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Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34159	Comm Loss: Purge Carbon Tank Temperature Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
34160	Comm Loss: Purge Carbon Tank Temperature Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
34161	Comm Loss: Purge Condensing Unit Relay Circuit 1	0 = Normal 1 = In Alarm	Purge
34162	Comm Loss: Purge Condensing Unit Relay Circuit 2	0 = Normal 1 = In Alarm	Purge
34163	Comm Loss: Purge Cprsr Suction Rfgt Temp Circuit 1	0 = Normal 1 = In Alarm	Purge
34164	Comm Loss: Purge Cprsr Suction Rfgt Temp Circuit 2	0 = Normal 1 = In Alarm	Purge
34165	Comm Loss: Purge Exhaust Solenoid Output Circuit 1	0 = Normal 1 = In Alarm	Purge
34166	Comm Loss: Purge Exhaust Solenoid Output Circuit 2	0 = Normal 1 = In Alarm	Purge
34167	Comm Loss: Purge Liquid Level Switch Circuit 1	0 = Normal 1 = In Alarm	Purge
34168	Comm Loss: Purge Liquid Level Switch Circuit 2	0 = Normal 1 = In Alarm	Purge
34169	Comm Loss: Purge Liquid Temperature Circuit 1	0 = Normal 1 = In Alarm	Purge
34170	Comm Loss: Purge Liquid Temperature Circuit 2	0 = Normal 1 = In Alarm	Purge
34171	Comm Loss: Purge Pumpout Relay Circuit 1	0 = Normal 1 = In Alarm	Purge
34172	Comm Loss: Purge Pumpout Relay Circuit 2	0 = Normal 1 = In Alarm	Purge
34173	Comm Loss: Purge Pumpout Solenoid Output Circuit 1	0 = Normal 1 = In Alarm	Purge
34174	Comm Loss: Purge Pumpout Solenoid Output Circuit 2	0 = Normal 1 = In Alarm	Purge
34175	Comm Loss: Purge Regen Solenoid Relay Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
34176	Comm Loss: Purge Regen Solenoid Relay Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
34177	Comm Loss: Refrigerant Monitor Input	0 = Normal 1 = In Alarm	Refrigerant Monitor
34178	Comm Loss: Starter Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34179	Comm Loss: Starter Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD



Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34180	Comm Loss: Starter Fault Circuit 1	0 = Normal 1 = In Alarm	Solid State Starters Remote Mount Non-Comm AFD
34181	Comm Loss: Starter Fault Circuit 2	0 = Normal 1 = In Alarm	Solid State Starters Remote Mount Non-Comm AFD
34182	Comm Loss: Unit Purge Alarm Relay	0 = Normal 1 = In Alarm	Purge
34183	Diagnostic: Compressor Did Not Accelerate: Shutdown Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34184	Diagnostic: Compressor Did Not Accelerate: Shutdown Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34185	Diagnostic: Cond Saturated Refrigerant Temp Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard
34186	Diagnostic: Cond Saturated Refrigerant Temp Sensor Circuit 2	0 = Normal 1 = In Alarm	Standard
34187	Diagnostic: Condenser Diff Water Pressure Xdcr	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Differential Pressure
34188	Diagnostic: Condenser Entering Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensors
34189	Diagnostic: Condenser Entering Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
34190	Diagnostic: Condenser High Pressure Cutout Circuit 1	0 = Normal 1 = In Alarm	Standard
34191	Diagnostic: Condenser High Pressure Cutout Circuit 2	0 = Normal 1 = In Alarm	Standard
34192	Diagnostic: Condenser Leaving Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensors
34193	Diagnostic: Condenser Leaving Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
34194	Diagnostic: Condenser Liquid Level Sensor Circuit 1	0 = Normal 1 = In Alarm	Economizer Bypass
34195	Diagnostic: Condenser Liquid Level Sensor Circuit 2	0 = Normal 1 = In Alarm	Economizer Bypass
34196	Diagnostic: Condenser Refrigerant Pressure Xdcr Circuit 1	0 = Normal 1 = In Alarm	Cond Pressure Sensor
34197	Diagnostic: Condenser Refrigerant Pressure Xdcr Circuit 2	0 = Normal 1 = In Alarm	Cond Pressure Sensor
34198	Diagnostic: Condenser Water Flow Lost	0 = Normal 1 = In Alarm	Standard
34199	Diagnostic: Condenser Water Flow Overdue	0 = Normal 1 = In Alarm	Standard

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34200	Diagnostic: Cprsr Did Not Accelerate: Transition Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34201	Diagnostic: Cprsr Did Not Accelerate: Transition Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34202	Diagnostic: Cprsr Discharge Refrigerant Temp Sensor Circuit 1	0 = Normal 1 = In Alarm	Compressor Refrigerant Discharge Temp Sensor
34203	Diagnostic: Cprsr Discharge Refrigerant Temp Sensor Circuit 2	0 = Normal 1 = In Alarm	Compressor Refrigerant Discharge Temp Sensor
34204	Diagnostic: Differential Oil Pressure Overdue Circuit 1	0 = Normal 1 = In Alarm	Standard
34205	Diagnostic: Differential Oil Pressure Overdue Circuit 2	0 = Normal 1 = In Alarm	Standard
34207	Diagnostic: Emergency Stop	0 = Normal 1 = In Alarm	Standard
34208	Diagnostic: Evap Saturated Refrigerant Temp Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard
34209	Diagnostic: Evap Saturated Refrigerant Temp Sensor Circuit 2	0 = Normal 1 = In Alarm	standard
34210	Diagnostic: Evaporator Diff Water Pressure Xdcr	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Differential Pressure
34211	Diagnostic: Evaporator Entering Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Dual Pressure Sensors
34212	Diagnostic: Evaporator Entering Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
34213	Diagnostic: Evaporator Leaving Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Dual Pressure Sensors
34214	Diagnostic: Evaporator Leaving Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
34215	Diagnostic: Evaporator Refrigerant Pressure Xdcr Circuit 1	0 = Normal 1 = In Alarm	Evap Pressure Sensor
34216	Diagnostic: Evaporator Refrigerant Pressure Xdcr Circuit 2	0 = Normal 1 = In Alarm	Evap Pressure Sensor
34217	Diagnostic: Evaporator Water Flow Lost	0 = Normal 1 = In Alarm	Standard
34218	Diagnostic: Evaporator Water Flow Overdue	0 = Normal 1 = In Alarm	Standard
34219	Diagnostic: Excessive Loss of Communication	0 = Normal 1 = In Alarm	Standard
34222	Diagnostic: Extended Compressor Surge Circuit 1	0 = Normal 1 = In Alarm	Standard
34223	Diagnostic: Extended Compressor Surge Circuit 2	0 = Normal 1 = In Alarm	Standard



Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34224	Diagnostic: External Base Loading Setpoint	0 = Normal 1 = In Alarm	Base Loading
34225	Diagnostic: External Chilled/Hot Water Setpoint	0 = Normal 1 = In Alarm	External Chilled Water Setpoint
34226	Diagnostic: External Demand Limit Setpoint	0 = Normal 1 = In Alarm	External Demand Limit Setpoint
34231	Diagnostic: Generator Fault Relay Open Circuit 1	0 = Normal 1 = In Alarm	Engine/Generator
34232	Diagnostic: Generator Fault Relay Open Circuit 2	0 = Normal 1 = In Alarm	Engine/Generator
34233	Diagnostic: Generator Ready Signal Overdue Circuit 1	0 = Normal 1 = In Alarm	Engine/Generator
34234	Diagnostic: Generator Ready Signal Overdue Circuit 2	0 = Normal 1 = In Alarm	Engine/Generator
34235	Diagnostic: Heat Recovery Entering Water Temp Sensor	0 = Normal 1 = In Alarm	Heat Recovery
34236	Diagnostic: Heat Recovery Leaving Water Temp Sensor	0 = Normal 1 = In Alarm	Heat Recovery
34237	Diagnostic: High Cprsr Rfgt Discharge Temperature Circuit 1	0 = Normal 1 = In Alarm	Compressor Refrigerant Discharge Temp Sensor
34238	Diagnostic: High Cprsr Rfgt Discharge Temperature Circuit 2	0 = Normal 1 = In Alarm	Compressor Refrigerant Discharge Temp Sensor
34239	Diagnostic: High Differential Refrigerant Pressure Circuit 1	0 = Normal 1 = In Alarm	Standard
34240	Diagnostic: High Differential Refrigerant Pressure Circuit 2	0 = Normal 1 = In Alarm	Standard
34241	Diagnostic: High Evaporator Refrigerant Temperature Circuit 1	0 = Normal 1 = In Alarm	Standard
34242	Diagnostic: High Evaporator Refrigerant Temperature Circuit 2	0 = Normal 1 = In Alarm	Standard
34243	Diagnostic: High Evaporator Water Temperature	0 = Normal 1 = In Alarm	Standard
34244	Diagnostic: High Inboard Bearing Temperature Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensors
34245	Diagnostic: High Inboard Bearing Temperature Circuit 2	0 = Normal 1 = In Alarm	Bearing Temp Sensors
34246	Diagnostic: High Motor Winding Temperature 1 Circuit 1	0 = Normal 1 = In Alarm	Standard
34247	Diagnostic: High Motor Winding Temperature 1 Circuit 2	0 = Normal 1 = In Alarm	Standard
34248	Diagnostic: High Motor Winding Temperature 2 Circuit 1	0 = Normal 1 = In Alarm	Standard
34249	Diagnostic: High Motor Winding Temperature 2 Circuit 2	0 = Normal 1 = In Alarm	Standard

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34250	Diagnostic: High Motor Winding Temperature 3 Circuit 1	0 = Normal 1 = In Alarm	Standard
34251	Diagnostic: High Motor Winding Temperature 3 Circuit 2	0 = Normal 1 = In Alarm	Standard
34252	Diagnostic: High Oil Temperature Circuit 1	0 = Normal 1 = In Alarm	Standard
34253	Diagnostic: High Oil Temperature Circuit 2	0 = Normal 1 = In Alarm	Standard
34254	Diagnostic: High Outboard Bearing Pad Temperature 1 Circuit 1	0 = Normal 1 = In Alarm	CDHH
34255	Diagnostic: High Outboard Bearing Pad Temperature 1 Circuit 2	0 = Normal 1 = In Alarm	CDHH
34256	Diagnostic: High Outboard Bearing Pad Temperature 2 Circuit 1	0 = Normal 1 = In Alarm	CDHH
34257	Diagnostic: High Outboard Bearing Pad Temperature 2 Circuit 2	0 = Normal 1 = In Alarm	CDHH
34258	Diagnostic: High Outboard Bearing Pad Temperature 3 Circuit 1	0 = Normal 1 = In Alarm	CDHH
34259	Diagnostic: High Outboard Bearing Pad Temperature 3 Circuit 2	0 = Normal 1 = In Alarm	CDHH
34260	Diagnostic: High Outboard Bearing Temp Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensors
34261	Diagnostic: High Outboard Bearing Temp Circuit 2	0 = Normal 1 = In Alarm	Bearing Temp Sensors
34262	Diagnostic: High Vacuum Lockout Circuit 1	0 = Normal 1 = In Alarm	Standard
34263	Diagnostic: High Vacuum Lockout Circuit 2	0 = Normal 1 = In Alarm	Standard
34267	Diagnostic: HPC/High AFD Heat Sink Water Pressure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34268	Diagnostic: HPC/High AFD Heat Sink Water Pressure Circuit 2	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDD,E,F (LF2) Remote Mount Comm AFD - (PF7000)
34269	Diagnostic: Inboard Bearing Temp Sensor Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensors
34270	Diagnostic: Inboard Bearing Temp Sensor Circuit 2	0 = Normal 1 = In Alarm	Bearing Temp Sensors
34271	Diagnostic: Inverted Condenser Water Temperature	0 = Normal 1 = In Alarm	Standard
34272	Diagnostic: Inverted Evaporator Water Temperature	0 = Normal 1 = In Alarm	Standard
34273	Diagnostic: Loss of Economizer Bypass Valve Control Circuit 1	0 = Normal 1 = In Alarm	Economizer Bypass
34274	Diagnostic: Loss of Economizer Bypass Valve Control Circuit 2	0 = Normal 1 = In Alarm	Economizer Bypass



Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34275	Diagnostic: Low Differential Oil Pressure Circuit 1	0 = Normal 1 = In Alarm	Standard
34276	Diagnostic: Low Differential Oil Pressure Circuit 2	0 = Normal 1 = In Alarm	Standard
34277	Diagnostic: Low Evap Leaving Water Temp: Unit Off	0 = Normal 1 = In Alarm	Standard
34278	Diagnostic: Low Evap Leaving Water Temp: Unit On	0 = Normal 1 = In Alarm	Standard
34279	Diagnostic: Low Evaporator Refrigerant Temperature Circuit 1	0 = Normal 1 = In Alarm	Standard
34280	Diagnostic: Low Evaporator Refrigerant Temperature Circuit 2	0 = Normal 1 = In Alarm	Standard
34281	Diagnostic: Low Evaporator Water Flow	0 = Normal 1 = In Alarm	Evap Water Flow Measurement
34282	Diagnostic: Low Oil Temperature Circuit 1	0 = Normal 1 = In Alarm	Standard
34283	Diagnostic: Low Oil Temperature Circuit 2	0 = Normal 1 = In Alarm	Standard
34284	Diagnostic: Momentary Power Loss Circuit 1	0 = Normal 1 = In Alarm	Momentary Power Loss
34285	Diagnostic: Momentary Power Loss Circuit 2	0 = Normal 1 = In Alarm	Momentary Power Loss
34286	Diagnostic: Motor Current Overload Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34287	Diagnostic: Motor Current Overload Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34288	Diagnostic: Motor Winding Temperature 1 Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard
34289	Diagnostic: Motor Winding Temperature 1 Sensor Circuit 2	0 = Normal 1 = In Alarm	Standard
34290	Diagnostic: Motor Winding Temperature 2 Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard
34291	Diagnostic: Motor Winding Temperature 2 Sensor Circuit 2	0 = Normal 1 = In Alarm	Standard
34292	Diagnostic: Motor Winding Temperature 3 Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard
34293	Diagnostic: Motor Winding Temperature 3 Sensor Circuit 2	0 = Normal 1 = In Alarm	Standard
34294	Diagnostic: MP: Invalid Configuration	0 = Normal 1 = In Alarm	Standard
34295	Diagnostic: MP: Reset Has Occurred	0 = Normal 1 = In Alarm	Standard

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Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34296	Diagnostic: Oil Pressure Sensor Calibration Circuit 1	0 = Normal 1 = In Alarm	Standard
34297	Diagnostic: Oil Pressure Sensor Calibration Circuit 2	0 = Normal 1 = In Alarm	Standard
34298	Diagnostic: Oil Pump Discharge Pressure Transducer Circuit 1	0 = Normal 1 = In Alarm	Standard
34299	Diagnostic: Oil Pump Discharge Pressure Transducer Circuit 2	0 = Normal 1 = In Alarm	Standard
34300	Diagnostic: Oil Tank Pressure Transducer Circuit 1	0 = Normal 1 = In Alarm	Standard
34301	Diagnostic: Oil Tank Pressure Transducer Circuit 2	0 = Normal 1 = In Alarm	Standard
34302	Diagnostic: Oil Tank Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard
34303	Diagnostic: Oil Tank Temperature Sensor Circuit 2	0 = Normal 1 = In Alarm	Standard
34304	Diagnostic: Outboard Bearing Pad Temp 1 Sensor Circuit 1	0 = Normal 1 = In Alarm	CDHH
34305	Diagnostic: Outboard Bearing Pad Temp 1 Sensor Circuit 2	0 = Normal 1 = In Alarm	CDHH
34306	Diagnostic: Outboard Bearing Pad Temp 2 Sensor Circuit 1	0 = Normal 1 = In Alarm	CDHH
34307	Diagnostic: Outboard Bearing Pad Temp 2 Sensor Circuit 2	0 = Normal 1 = In Alarm	CDHH
34308	Diagnostic: Outboard Bearing Pad Temp 3 Sensor Circuit 1	0 = Normal 1 = In Alarm	CDHH
34309	Diagnostic: Outboard Bearing Pad Temp 3 Sensor Circuit 2	0 = Normal 1 = In Alarm	CDHH
34310	Diagnostic: Outboard Bearing Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	CDHH
34311	Diagnostic: Outboard Bearing Temperature Sensor Circuit 2	0 = Normal 1 = In Alarm	CDHH
34312	Diagnostic: Outdoor Air Temperature Sensor	0 = Normal 1 = In Alarm	Outdoor Air Temp Sensor
34313	Diagnostic: Over Voltage Circuit 1	0 = Normal 1 = In Alarm	Line Voltage Sensing
34314	Diagnostic: Over Voltage Circuit 2	0 = Normal 1 = In Alarm	Line Voltage Sensing
34315	Diagnostic: Phase Loss Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34316	Diagnostic: Phase Loss Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD



Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34317	Diagnostic: Phase Reversal Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34318	Diagnostic: Phase Reversal Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34319	Diagnostic: Power Loss Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34320	Diagnostic: Power Loss Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34321	Diagnostic: Purge Carbon Regen Temp Limit Exceeded Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
34322	Diagnostic: Purge Carbon Regen Temp Limit Exceeded Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
34323	Diagnostic: Purge Carbon Regen Temp Not Satisfied Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
34324	Diagnostic: Purge Carbon Regen Temp Not Satisfied Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
34325	Diagnostic: Purge Carbon Regen Temperature Too Low Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
34326	Diagnostic: Purge Carbon Regen Temperature Too Low Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
34327	Diagnostic: Purge Carbon Tank Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
34328	Diagnostic: Purge Carbon Tank Temperature Sensor Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
34329	Diagnostic: Purge Cprsr Suction Rfght Temp Sensor Circuit 1	0 = Normal 1 = In Alarm	Purge
34330	Diagnostic: Purge Cprsr Suction Rfght Temp Sensor Circuit 2	0 = Normal 1 = In Alarm	Purge
34331	Diagnostic: Purge Daily Pumpout Limit Exceeded Circuit 1	0 = Normal 1 = In Alarm	Purge
34332	Diagnostic: Purge Daily Pumpout Limit Exceeded Circuit 2	0 = Normal 1 = In Alarm	Purge
34333	Diagnostic: Purge Liquid Level Too High Continuously Circuit 1	0 = Normal 1 = In Alarm	Purge
34334	Diagnostic: Purge Liquid Level Too High Continuously Circuit 2	0 = Normal 1 = In Alarm	Purge
34335	Diagnostic: Purge Liquid Level Too High Warning Circuit 1	0 = Normal 1 = In Alarm	Purge
34336	Diagnostic: Purge Liquid Level Too High Warning Circuit 2	0 = Normal 1 = In Alarm	Purge



Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34337	Diagnostic: Purge Liquid Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	Purge
34338	Diagnostic: Purge Liquid Temperature Sensor Circuit 2	0 = Normal 1 = In Alarm	Purge
34339	Diagnostic: Purge Regen Cooldown Temp Too High Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
34340	Diagnostic: Purge Regen Cooldown Temp Too High Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
34342	Diagnostic: Refrigerant Monitor Input	0 = Normal 1 = In Alarm	Refrigerant Monitor
34343	Diagnostic: Restart Inhibit Circuit 1	0 = Normal 1 = In Alarm	Standard
34344	Diagnostic: Restart Inhibit Circuit 2	0 = Normal 1 = In Alarm	Standard
34345	Diagnostic: Severe Current Unbalance Circuit 1	0 = Normal 1 = In Alarm	Line Voltage Sensing
34346	Diagnostic: Severe Current Unbalance Circuit 2	0 = Normal 1 = In Alarm	Line Voltage Sensing
34347	Diagnostic: Software Error 1001: Call Trane Service	0 = Normal 1 = In Alarm	Standard
34348	Diagnostic: Software Error 1004: Call Trane Service	0 = Normal 1 = In Alarm	Standard
34349	Diagnostic: Starter Comm Loss: Main Processor Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34350	Diagnostic: Starter Comm Loss: Main Processor Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34351	Diagnostic: Starter Contactor Interrupt Failure Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34352	Diagnostic: Starter Contactor Interrupt Failure Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34353	Diagnostic: Starter Did Not Fully Accelerate Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34354	Diagnostic: Starter Did Not Fully Accelerate Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34355	Diagnostic: Starter Did Not Transition Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD



Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34356	Diagnostic: Starter Did Not Transition Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34357	Diagnostic: Starter Dry Run Test Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34358	Diagnostic: Starter Dry Run Test Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34359	Diagnostic: Starter Failed to Arm/Start Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34360	Diagnostic: Starter Failed to Arm/Start Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34361	Diagnostic: Starter Fault Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34362	Diagnostic: Starter Fault Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34363	Diagnostic: Starter Fault Type I Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34364	Diagnostic: Starter Fault Type I Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34365	Diagnostic: Starter Fault Type II Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34366	Diagnostic: Starter Fault Type II Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34367	Diagnostic: Starter Fault Type III Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34368	Diagnostic: Starter Fault Type III Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34369	Diagnostic: Starter Module Memory Error Type 1 Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD



Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34370	Diagnostic: Starter Module Memory Error Type 1 Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34371	Diagnostic: Starter Module Memory Error Type 2 Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34372	Diagnostic: Starter Module Memory Error Type 2 Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34373	Diagnostic: Transition Complete Input Opened Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34374	Diagnostic: Transition Complete Input Opened Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34375	Diagnostic: Transition Complete Input Shorted Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34376	Diagnostic: Transition Complete Input Shorted Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34377	Diagnostic: Under Voltage Circuit 1	0 = Normal 1 = In Alarm	Line Voltage Sensing
34378	Diagnostic: Under Voltage Circuit 2	0 = Normal 1 = In Alarm	Line Voltage Sensing
34379	Diagnostic: Unexpected Differential Oil Pressure Circuit 1	0 = Normal 1 = In Alarm	Standard
34380	Diagnostic: Unexpected Differential Oil Pressure Circuit 2	0 = Normal 1 = In Alarm	Standard
34381	Diagnostic: Unexpected Starter Shutdown Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34382	Diagnostic: Unexpected Starter Shutdown Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
34383	Diagnostic: AFD Bus Over Voltage Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
34384	Diagnostic: AFD Bus Over Voltage Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
34385	Diagnostic: AFD Bus Under Voltage Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
34386	Diagnostic: AFD Bus Under Voltage Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)

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Modbus Register	Diagnostic Name	Object States	Configuration Dependency
34387	Diagnostic: AFD Motor Fault Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
34388	Diagnostic: AFD Motor Fault Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
34389	Diagnostic: AFD Precharge Fault Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
34390	Diagnostic: AFD Precharge Fault Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
34391	Diagnostic: AFD Over Temperature Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
34392	Diagnostic: AFD Over Temperature Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)



Modbus Register	Object Name	Object States	Configuration Dependency
43011	Base Loading Request	0 = Off 1 = On	Base Loading
43012	Reset Diagnostic	0 = Normal 1 = Reset	Standard
43013	Evaporator Water Pump Request BAS	0 = Auto 1 = On	Standard
43014	Condenser Water Pump Request BAS	0 = Auto 1 = On	Standard
43015	Chiller Auto Stop Command BAS	0 = Stop 1 = Auto	Standard
43016	Circuit 1 Lockout BAS	0 = Normal 1 = Locked Out	Standard
43017	Circuit 2 Lockout BAS	0 = Normal 1 = Locked Out	Standard
43018	Energy Consumption Reset	0 = Accumulating 1 = Reset	Energy Meter EM Starters w/Line Voltage Sensing Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) Remote Mount Comm AFD (PF7000)



Modbus Register	Object Name	Object States	Configuration Dependency
32011	Running Mode	1 = Chiller Off 2 = Chiller In Start Mode 3 = Chiller In Run Mode 4 = Chiller In Pre-Shutdown Mode 5 = Chiller In Service Mode	Standard
32012	Operating Mode	1 = Cool 2 = Heat 3 = Ice Making 4 = Free Cooling	Standard
32013	Chiller Setpoint Source	1 = BAS 2 = External 3 = Front Panel	Standard
32014	Cooling Type	1 = Water Cooled	Standard
32015	Refrigerant Type	1 = R-11 2 = R-12 3 = R-22 4 = R-123 5 = R-134a 8 = R-113 9 = R-114 10 = R-500 11 = R-502 13 = R-513A 14 = R-1233zd(E) 15 = R-514A	Standard
32016	Manufacturing Location	1 = Field Applied 2 = La Crosse 15 = Taicang	Standard
32017	Model Information [GEN2]	1 = CVHF 2 = CVGF 3 = CVHS 11 = CTVD 12 = CVR 13 = CVHH 14 = CDHH 20 = CVHM 38 = CVHE 39 = CVHG 40 = CVHL	Standard

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Modbus Register	Object Name	Object States	Configuration Dependency
42011	Chiller Mode Command BAS	1 = Cool 2 = Heat 3 = Ice Making 4 = Free Cooling	Standard



Diagnostics Codes



Diagnostic Code (Dec)	Diagnostic Name
1001	MP: Invalid Configuration
1003	Check Clock
1006	MP: Reset Has Occurred
11001	Comm Loss: Evap Entering Water Temp
11002	Comm Loss: Evap Leaving Water Temp
11005	Comm Loss: Evap Diff Water Pressure
11006	Evaporator Entering Water Temp Sensor
11007	Evaporator Leaving Water Temp Sensor
11008	Evaporator Diff Water Pressure Xdcr
11009	Evaporator Inverted Water Temp
11012	Evaporator Entering Water Pressure
11013	Evaporator Leaving Water Pressure
11014	Comm Loss: Evaporator Entering Water Pressure
11015	Comm Loss: Evaporator Leaving Water Pressure
21001	Comm Loss: Condenser Entering Water Temp
21002	Comm Loss: Condenser Leaving Water Temp
21003	Comm Loss: Heat Recovery Entering Water Temp
21004	Comm Loss: Heat Recovery Leaving Water Temp
21005	Comm Loss: Cond Diff Water Pressure
21006	Condenser Entering Water Temp Sensor
21007	Condenser Leaving Water Temp Sensor
21008	Heat Recovery Entering Water Temp Sensor
21009	Heat Recovery Leaving Water Temp Sensor
21010	Condenser Diff Water Pressure Xdcr
21011	Condenser Inverted Water Temp
21012	Condenser Entering Water Pressure
21013	Condenser Leaving Water Pressure
21014	Comm Loss: Condenser Entering Water Pressure
21015	Comm Loss: Condenser Leaving Water Pressure
21016	Comm Loss: Heat Recovery Entering Water Pressure
21017	Heat Recovery Entering Water Pressure
21018	Comm Loss: Heat Recovery Leaving Water Pressure
21019	Heat Recovery Leaving Water Pressure
21020	Heat Recovery Differential Water Pressure



Diagnostic Code (Dec)	Diagnostic Name
21021	Comm Loss: Heat Recovery Differential Water Pressure
31001	Evaporator Water Flow Overdue
31002	Evaporator Water Flow Lost
31003	Comm Loss: Evaporator Water Flow Switch
31004	Comm Loss: Evaporator Water Pump Relay
31005	Low Evaporator Water Flow
31006	High Evaporator Water Temperature
41001	Condenser Water Flow Overdue
41002	Condenser Water Flow Lost
41003	Comm Loss: Condenser Water Flow Switch
41004	Comm Loss: Condenser Water Pump Relay
41005	Comm Loss: Heat Recovery Water Flow Switch
61001	Comm Loss: High Lift Unload Valve Relay
71001	Emergency Stop
71002	Comm Loss: External Auto/Stop
71003	Comm Loss: Emergency Stop
71004	Comm Loss: Ext Chilled/Hot Wtr Setpoint
71005	Comm Loss: Ext Demand Limit Setpoint
71009	External Chilled/Hot Water Setpoint
71010	External Demand Limit Setpoint
71012	Comm Loss: Cond Rfgt Pressure Output
71014	Comm Loss: Refrigerant Monitor Input
71021	Comm Loss: External Hot Water Command
71022	Comm Loss: Compressor Motor % RLA Output
71023	Refrigerant Monitor Input
71026	Comm Loss: Programmable Relay Board 1
71027	Comm Loss: Programmable Relay Board 2
71028	Comm Loss: Cond Head Pressure Control Output
81001	Comm Loss: External Free Cooling Command
81002	Comm Loss: Free Cool Actrs Closed Input
81003	Comm Loss: Free Cool Liq Line Actr Relay
81004	Comm Loss: Free Cool Gas Line Actr Relay
81005	Comm Loss: Free Cooling Auxiliary Relay
81006	Free Cooling Actuators Not Open



Diagnostic Code (Dec)	Diagnostic Name
81007	Free Cooling Actrs Not Open During FC
81008	Free Cooling Actuators Not Closed
81009	Free Cooling Actuators Unexpectedly Open
101001	Comm Loss: Purge Liquid Temperature
101002	Comm Loss: Purge Cprsr Suction Rfgt Temp
101003	Comm Loss: Purge Carbon Tank Temperature
101004	Comm Loss: Purge Liquid Level Switch
101006	Comm Loss: Purge Pumpout Relay
101007	Comm Loss: Purge Carbon Tank Heater Rly
101008	Comm Loss: Purge Regen Solenoid Relay
101009	Comm Loss: Purge Alarm Relay
101010	Comm Loss: Purge Pumpout Solenoid Output
101011	Comm Loss: Purge Exhaust Solenoid Output
101012	Comm Loss: Purge Condensing Unit Relay
101013	Purge Liquid Temperature Sensor
101014	Purge Cprsr Suction Rfgt Temp Sensor
101015	Purge Carbon Tank Temperature Sensor
101016	Purge Liquid Level Too High Warning
101017	Purge Liquid Level Too High Continuously
101018	Purge Carbon Regen Temperature Too Low
101019	Purge Carbon Regen Temp Limit Exceeded
101020	Purge Regen Cooldown Temp Too High
101021	Purge Daily Pumpout Limit Exceeded
101022	Purge Carbon Regen Temp Not Satisfied
111001	Comm Loss: Evap Saturated Rfgt Temp
111002	Comm Loss: Cond Saturated Rfgt Temp
111003	Comm Loss: Cond Refrigerant Pressure
111004	Evap Saturated Refrigerant Temp Sensor
111005	Cond Saturated Refrigerant Temp Sensor
111006	Condenser Refrigerant Pressure Xdcr
111007	Evaporator Approach Temp Inverted
111008	Condenser Approach Temp Inverted
121001	Starter Failed to Arm/Start
121003	Comm Loss: EM Starter



Diagnostic Code (Dec)	Diagnostic Name
121004	Comm Loss: Adaptive Frequency Drive
121005	Starter Fault
121006	Comm Loss: Starter Fault
121008	Unexpected Starter Shutdown
121017	AFD Interrupt Failure
121018	AFD Drive Fault
121019	AFD Mains Phase Loss
121020	AFD Motor Current Overload
121021	AFD Ground Current
121022	AFD Short Circuit
121023	AFD Safe Stop
121024	AFD Fault
121025	AFD Comm Loss: Main Processor
121026	AFD Speed Mismatch
121027	AFD General Diagnostic
131005	Comm Loss: Energy Meter
131006	Comm Loss: Outdoor Air Temperature
131007	Outdoor Air Temp Sensor
131008	Excessive Loss of Communication
131009	Comm Loss: Generator Start/Stop Relay
131010	Comm Loss: Generator Speed Signal Output
131011	Comm Loss: Generator Up To Speed Input
131012	Generator Fault Relay Open
131013	Generator Ready Signal Overdue
131014	Comm Loss: Generator Fault Input
131015	AFD Speed Signal Comm Loss
131018	Software Error 1001
131019	Software Error 1004
141001	Comm Loss: IGV First Stage Actuator
141001	External Base Loading Setpoint
141002	Comm Loss: IGV Second Stage Actuator
141002	Comm Loss: Ext Base Loading Setpoint
141003	Comm Loss: Ext Base Loading Command
161001	Low Evap Leaving Water Temp: Unit Off



Diagnostic Code (Dec)	Diagnostic Name
161002	Low Evap Leaving Water Temp: Unit On
161003	Evap Rfgt Temp Deviate From Selection
171001	Low Differential Oil Pressure
171002	Check Oil Filter
171003	Oil Pressure Sensor Calibration
171004	High Vacuum Lockout
171005	Unexpected Differential Oil Pressure
171006	Low Oil Temperature
171007	High Oil Temperature
171008	Differential Oil Pressure Overdue
171009	Comm Loss: Oil Pump Discharge Pressure
171010	Comm Loss: Oil Tank Pressure
171011	Comm Loss: Oil Diff Pressure Switch
171012	Comm Loss: Oil Tank Temperature
171013	Comm Loss: Oil/Refrigerant Pump Relay
171014	Comm Loss: Oil Tank Heater Relay
171015	Oil Pump Discharge Pressure Transducer
171016	Oil Tank Pressure Transducer
171017	Oil Tank Temperature Sensor
171018	Comm Loss: Oil Lite Status
171019	Comm Loss: Oil Tank Heater Relay 1
171020	Comm Loss: Oil Tank Heater Relay 2
171021	Check Oil Heater
171022	Comm Loss: Evap Lubrication Source Valve
171024	Comm Loss: Bearing Lube Flow First Stage
171025	Comm Loss: Bearing Lube Flow Second Stage
171026	Low Bearing Lube Flow First Stage
171027	Low Bearing Lube Flow Second Stage
171028	Comm Loss: Lube Pump Discharge Pressure
171029	Comm Loss: Lube Pump Suction Pressure
171030	Comm Loss: Lube/Refrigerant Pump Relay
171031	Differential Lube Pressure Overdue
171032	Low Differential Lube Pressure
171033	Lube Pressure Sensor Calibration



Diagnostic Code (Dec)	Diagnostic Name
171034	Lube Pump Discharge Pressure Transducer
171035	Lube Pump Suction Pressure Transducer
171036	Unexpected Differential Lube Pressure
171037	Check Lube Filter
171038	Comm Loss: Cond Lubrication Source Valve
171039	Bearing Lube Flow First Stage Sensor Input
171040	Bearing Lube Flow Second Stage Sensor Input
171041	Comm Loss: Cooler Solenoid
171042	Comm Loss: Oil Vent Line Actuator Signal Output
171043	Low Bearing Lube Flow Lockout First Stage
171044	Low Bearing Lube Flow Lockout Second Stage
171045	Lube Pump Override Low Diff Pressure
171046	Lube Pump Override Low Flow First Stage
171047	Lube Pump Override Low Flow Second Stage
171048	Bearing Flow Overdue First Stage
171049	Bearing Flow Overdue Second Stage
201001	Low Evaporator Refrigerant Temperature
201002	Condenser High Pressure Cutout
201003	Comm Loss: Cond High Pressure Cutout
201004	High Evaporator Refrigerant Temperature
201005	High Differential Refrigerant Pressure
201006	Software High Pressure Cutout
211004	Bypass SCR Pole 1,2, or 3 not closed
211005	Extended Compressor Surge
211013	RAM Failure in IPC3 Starter Micro
211014	EEPROM Failure in IPC3 Starter Micro
211015	EEPROM Failure in IT Starter Micro
211016	EEPROM Failure in IT SSS Starter Micro
211028	Thermal Overload Trip
211031	Compressor did Accelerate: Forced Full voltage Ramp
211032	Compressor did Accelerate: Shutdown
211033	Zero Voltage Cross
211035	Starter: Watchdog
211036	Starter Phase Lock Loop



Diagnostic Code (Dec)	Diagnostic Name
211037	Starter Illegal Address
211038	At Speed Input Shorted
211039	Starter Did Not Fully Accelerate
211040	At Speed Input Opened
211080	Starter Comm Loss: Main Processor
211081	Starter Fault Type I
211082	Starter Fault Type II
211083	Starter Fault Type III
211084	EM Starter Contactor Interrupt Failure
211085	Starter Did Not Transition
211086	Transition Complete Input Shorted
211087	EM Phase Loss
211088	EM Phase Reversal
211089	EM Severe Current Unbalance
211090	EM Power Loss
211091	EM Momentary Power Loss
211092	EM Motor Current Overload
211093	Compressor Did Not Accelerate: Shutdown
211095	Cprsr Did Not Accelerate: Transition
211096	Transition Complete Input Opened
211097	Starter Module Memory Error Type 1
211098	Starter Module Memory Error Type 2
211099	EM Starter Dry Run Test
211120	AFD Power Loss
211121	AFD Start Inhibited
211122	AFD Motor Current Overload
211123	AFD Motor Short
211124	AFD Instantaneous Current Overload
211125	AFD High Temperature
211126	AFD Output Phase Loss
211127	AFD Ground Fault
211128	HPC/High AFD Heat Sink Water Pressure
211129	AFD Comm Loss: Main Processor
211130	AFD High Bus Voltage



Diagnostic Code (Dec)	Diagnostic Name
211131	AFD Control Board Memory Error Type 2
211132	AFD General Failure
211133	AFD Fatal Software Error
211134	AFD I/O Board Failure
211135	AFD Power Intfc Controller Board Failure
211136	AFD Power Structure Board Failure
211137	AFD DPI Device Failure
211138	AFD DPI Communication Failure
211139	AFD RS485 Board Memory Error Type 2
211144	High Outboard Bearing Pad Temperature 1
211145	High Outboard Bearing Pad Temperature 2
211146	High Outboard Bearing Pad Temperature 3
211147	Outboard Bearing Pad Temperature Sensor 1
211148	Outboard Bearing Pad Temperature Sensor 2
211149	Outboard Bearing Pad Temperature Sensor 3
211150	Comm Loss: Outboard Bearing Pad Temperature 1
211151	Comm Loss: Outboard Bearing Pad Temperature 2
211152	Comm Loss: Outboard Bearing Pad Temperature 3
211160	High Motor Winding Temperature 1
211161	High Motor Winding Temperature 2
211162	High Motor Winding Temperature 3
211163	Comm Loss: Motor Winding Temperature 1
211164	Comm Loss: Motor Winding Temperature 2
211165	Comm Loss: Motor Winding Temperature 3
211166	High Inboard Bearing Temperature
211167	High Outboard Bearing Temperature
211168	Comm Loss: Inboard Bearing Temperature
211169	Comm Loss: Outboard Bearing Temperature
211170	High Cprsr Rfght Discharge Temperature
211171	Comm Loss: Cprsr Discharge Rfght Temp
211172	Under Voltage
211173	Over Voltage
211174	Motor Winding Temperature 1 Sensor
211175	Motor Winding Temperature 2 Sensor



Diagnostic Code (Dec)	Diagnostic Name
211176	Motor Winding Temperature 3 Sensor
211177	Inboard Bearing Temperature Sensor
211178	Outboard Bearing Temperature Sensor
211179	Cprsr Discharge Refrigerant Temp Sensor
211183	Comm Loss: MTC Input
211184	MTC Sensor
211185	Comm Loss: Winding Temp Lite
211186	Restart Inhibit
211187	Motor Coolant Temp Comm Loss
211188	Motor Coolant Temperature Sensor
211189	High Motor Coolant Temperature
211192	AFD DSP Board Over Temp
211193	AFD DSP Board Initialization Failure
211194	AFD DSP Board ID Error
211195	AFD Non-Volatile Memory Failure
211196	AFD AD Calibration Error
211197	AFD Watchdog Timer Overflow
211198	AFD Overspeed
211199	AFD Low Rotor Flux Feedback
211200	AFD Bump Failure
211201	AFD Start Failure
211202	AFD IGBT Self Test Failure
211203	AFD Gate Kill Active
211204	AFD Inverter Heatsink Over Temp
211205	AFD Rectifier Heatsink Over Temp
211206	AFD Gate Drive Board Over Temp
211207	AFD Bus Ripple Too High
211208	AFD DSP Board Low Voltage Failure
211209	AFD Bus Under Voltage
211210	AFD Current Sensor Self Test Failure
211211	AFD Gate Drive Fault
211212	AFD Panel Interlock Fault
211213	AFD Panel Interlock Warning
211214	AFD Gate Drive Module Comm Loss



Diagnostic Code (Dec)	Diagnostic Name
211215	AFD Emergency Stop
211216	AFD Desaturation Detected
211217	AFD Estimated Junction Over Temp
211218	AFD Invalid Drive Command
211219	AFD IMC 24V Low Voltage Failure
211220	AFD AHD Frequency Out Of Range
211221	AFD Loss Of AHD Sync Signal
211222	AFD AHD Sync Signal Error
211223	AFD Excessive AHD Inhibit
211224	AFD Gate Drive Low Voltage Failure
211225	AFD Temperature Sensor Warning
211226	AFD Bus Over Voltage
211227	Vibration Level Sensor Comm Loss
211228	Vibration Level Sensor
211230	AFD Precharge Fault
211231	AFD Over Temperature
211232	AFD Motor Fault
211233	AFD External Fault Input
211234	AFD Input Transformer or Filter High Temp
241001	Comm Loss: External Ice Building Command
241002	Comm Loss: Ice Building Relay
261001	Extended Compressor Surge
281001	Comm Loss: Hot Gas Bypass Load Relay
281002	Comm Loss: Hot Gas Bypass Actr Closed In
281003	Comm Loss: Hot Gas Bypass Unload Relay
281004	Hot Gas Bypass Valve Closure Overdue
281005	Hot Gas Bypass Valve Opening Overdue
281006	Hot Gas Bypass Valve Unexpectedly Open
381001	Condenser Liquid Level Sensor
381002	Comm Loss: Condenser Liquid Level Sensor
381003	Economizer Liquid Level Sensor
381004	Comm Loss: Economizer Liquid Level Sensor
381005	Comm Loss: Economizer Bypass Valve Feedback
381006	Economizer Bypass Valve Loss of Control



Diagnostic Code (Dec)	Diagnostic Name
381007	Condenser Rfgt Valve Loss of Control
381008	Comm Loss: Condenser Rfgt Valve Feedback
381009	Economizer Rfgt Valve Loss of Control
381010	Comm Loss: Economizer Rfgt Valve Feedback
381011	Comm Loss: Economizer Intermediate Pressure
381012	Economizer Intermediate Pressure



Diagnostic Code (Dec)	Diagnostic Name
1001	MP: Invalid Configuration
1003	Check Clock
1006	MP: Reset Has Occurred
11001	Comm Loss: Evap Entering Water Temp
11002	Comm Loss: Evap Leaving Water Temp
11005	Comm Loss: Evap Diff Water Pressure
11006	Evaporator Entering Water Temp Sensor
11007	Evaporator Leaving Water Temp Sensor
11008	Evaporator Diff Water Pressure Xdcr
11009	Inverted Evaporator Water Temperature
11012	Evaporator Entering Water Pressure
11013	Evaporator Leaving Water Pressure
11014	Comm Loss: Evaporator Entering Water Pressure
11015	Comm Loss: Evaporator Leaving Water Pressure
21001	Comm Loss: Condenser Entering Water Temp
21002	Comm Loss: Condenser Leaving Water Temp
21003	Comm Loss: Heat Recovery Entering Water Temp
21004	Comm Loss: Heat Recovery Leaving Water Temp
21005	Comm Loss: Cond Diff Water Pressure
21006	Condenser Entering Water Temp Sensor
21007	Condenser Leaving Water Temp Sensor
21008	Heat Recovery Entering Water Temp Sensor
21009	Heat Recovery Leaving Water Temp Sensor
21010	Condenser Diff Water Pressure Xdcr
21011	Inverted Condenser Water Temperature
21012	Condenser Entering Water Pressure
21013	Condenser Leaving Water Pressure
21014	Comm Loss: Condenser Entering Water Pressure
21015	Comm Loss: Condenser Leaving Water Pressure
31001	Evaporator Water Flow Overdue
31002	Evaporator Water Flow Lost
31003	Comm Loss: Evaporator Water Flow Switch
31004	Comm Loss: Evaporator Water Pump Relay
31005	Low Evaporator Water Flow



Diagnostic Code (Dec)	Diagnostic Name
31006	High Evaporator Water Temperature
41001	Condenser Water Flow Overdue
41002	Condenser Water Flow Lost
41003	Comm Loss: Condenser Water Flow Switch
41004	Comm Loss: Condenser Water Pump Relay
71001	Emergency Stop
71002	Comm Loss: External Auto/Stop
71003	Comm Loss: Emergency Stop
71004	Comm Loss: Ext Chilled/Hot Water Setpoint
71005	Comm Loss: Ext Demand Limit Setpoint
71009	External Chilled/Hot Water Setpoint
71010	External Demand Limit Setpoint
71011	Comm Loss: Programmable Relay Board 1 - ckt 1
71012	Comm Loss: Cond Rfgt Pressure Output - ckt 1
71013	Comm Loss: Compressor Running Relay
71014	Comm Loss: Refrigerant Monitor Input
71015	Comm Loss: Non-Wrn Latching Alarm Relay
71016	Comm Loss: Non-Wrn Nonlatching Alm Relay
71017	Comm Loss: Unit Purge Alarm Relay
71018	Comm Loss: Limit Warning Relay
71019	Comm Loss: Maximum Capacity Relay
71020	Comm Loss: Head Relief Request Relay
71021	Comm Loss: External Hot Water Command
71022	Comm Loss: Compressor Motor % RLA Output - ckt 1
71023	Refrigerant Monitor Input
71024	Comm Loss: Programmable Relay Board 2 - ckt 2
71025	Comm Loss: Cond Head Press Cntrl Output
72012	Comm Loss: Cond Rfgt Pressure Output - ckt 2
72022	Comm Loss: Compressor Motor % RLA Output - ckt 2
81001	Comm Loss: External Free Cooling Command
81006	Free Cooling Actuators Not Open
81007	Free Cooling Actrs Not Open During FC
81008	Free Cooling Actuators Not Closed
81009	Free Cooling Actuators Unexpectedly Open



Diagnostic Code (Dec)	Diagnostic Name
91001	Comm Loss: Energy Meter 1
92001	Comm Loss: Energy Meter 2
101001	Comm Loss: Purge Liquid Temperature - ckt 1
101002	Comm Loss: Purge Cprsr Suction Rfgt Temp - ckt 1
101003	Comm Loss: Purge Carbon Tank Temperature - ckt 1
101004	Comm Loss: Purge Liquid Level Switch - ckt 1
101006	Comm Loss: Purge Pumpout Relay - ckt 1
101007	Comm Loss: Purge Carbon Tank Heater Rly - ckt 1
101008	Comm Loss: Purge Regen Solenoid Relay - ckt 1
101009	Comm Loss: Purge Alarm Relay - ckt 1
101010	Comm Loss: Purge Pumpout Solenoid Output - ckt 1
101011	Comm Loss: Purge Exhaust Solenoid Output - ckt 1
101012	Comm Loss: Purge Condensing Unit Relay - ckt 1
101013	Purge Liquid Temperature Sensor - ckt 1
101014	Purge Cprsr Suction Rfgt Temp Sensor - ckt 1
101015	Purge Carbon Tank Temperature Sensor - ckt 1
101016	Purge Liquid Level Too High Warning - ckt 1
101017	Purge Liquid Level Too High Continuously - ckt 1
101018	Purge Carbon Regen Temperature Too Low - ckt 1
101019	Purge Carbon Regen Temp Limit Exceeded - ckt 1
101020	Purge Regen Cooldown Temp Too High - ckt 1
101021	Purge Daily Pumpout Limit Exceeded - ckt 1
101022	Purge Carbon Regen Temp Not Satisfied - ckt 1
102001	Comm Loss: Purge Liquid Temperature - ckt 2
102002	Comm Loss: Purge Cprsr Suction Rfgt Temp - ckt 2
102003	Comm Loss: Purge Carbon Tank Temperature - ckt 2
102004	Comm Loss: Purge Liquid Level Switch - ckt 2
102006	Comm Loss: Purge Pumpout Relay - ckt 2
102007	Comm Loss: Purge Carbon Tank Heater Rly - ckt 2
102008	Comm Loss: Purge Regen Solenoid Relay - ckt 2
102009	Comm Loss: Purge Alarm Relay - ckt 2
102010	Comm Loss: Purge Pumpout Solenoid Output - ckt 2
102011	Comm Loss: Purge Exhaust Solenoid Output - ckt 2
102012	Comm Loss: Purge Condensing Unit Relay - ckt 2



Diagnostic Code (Dec)	Diagnostic Name
102013	Purge Liquid Temperature Sensor - ckt 2
102014	Purge Cprsr Suction Rfgt Temp Sensor - ckt 2
102015	Purge Carbon Tank Temperature Sensor - ckt 2
102016	Purge Liquid Level Too High Warning - ckt 2
102017	Purge Liquid Level Too High Continuously - ckt 2
102018	Purge Carbon Regen Temperature Too Low - ckt 2
102019	Purge Carbon Regen Temp Limit Exceeded - ckt 2
102020	Purge Regen Cooldown Temp Too High - ckt 2
102021	Purge Daily Pumpout Limit Exceeded - ckt 2
102022	Purge Carbon Regen Temp Not Satisfied - ckt 2
111001	Comm Loss: Evap Sat Refrig Temp - ckt 1
111002	Comm Loss: Cond Saturated Rfgt Temp - ckt 1
111003	Comm Loss: Cond Refrigerant Pressure - ckt 1
111004	Evap Saturated Refrigerant Temp Sensor - ckt 1
111005	Cond Saturated Refrigerant Temp Sensor - ckt 1
111006	Condenser Refrigerant Pressure Xdcr - ckt 1
111007	Comm Loss: External Ckt Lockout - ckt 1
111008	Comm Loss: Generator Start/Stop Relay - ckt 1
111009	Comm Loss: Generator Speed Signal Output - ckt 1
111010	Comm Loss: Generator Up To Speed Input - ckt 1
111011	Generator Fault Relay Open - ckt 1
111012	Generator Ready Signal Overdue - ckt 1
111013	Comm Loss: Generator Fault Input - ckt 1
111015	Comm Loss: AFD Speed Signal VDC Output - ckt 1
111016	Comm Loss: Evap Refrigerant Pressure - ckt 1
111017	Evaporator Refrigerant Pressure Xdcr - ckt 1
112001	Comm Loss: Evap Sat Refrig Temp - ckt 2
112002	Comm Loss: Cond Saturated Rfgt Temp - ckt 2
112003	Comm Loss: Cond Refrigerant Pressure - ckt 2
112004	Evap Saturated Refrigerant Temp Sensor - ckt 2
112005	Cond Saturated Refrigerant Temp Sensor - ckt 2
112006	Condenser Refrigerant Pressure Xdcr - ckt 2
112007	Comm Loss: External Ckt Lockout - ckt 2
112008	Comm Loss: Generator Start/Stop Relay - ckt 2



Diagnostic Code (Dec)	Diagnostic Name
112009	Comm Loss: Generator Speed Signal Output - ckt 2
112010	Comm Loss: Generator Up To Speed Input - ckt 2
112011	Generator Fault Relay Open - ckt 2
112012	Generator Ready Signal Overdue - ckt 2
112013	Comm Loss: Generator Fault Input - ckt 2
112015	Comm Loss: AFD Speed Signal VDC Output - ckt 2
112016	Comm Loss: Evap Refrigerant Pressure - ckt 2
112017	Evaporator Refrigerant Pressure Xdcr - ckt 2
121001	Starter Failed to Arm/Start - ckt 1
121003	Comm Loss: Starter - ckt 1
121004	Comm Loss: Adaptive Frequency Drive - ckt 1
121005	Starter Fault - ckt 1
121006	Comm Loss: Starter Fault - ckt 1
121007	AFD Interrupt Failure - ckt 1
121008	Unexpected Starter Shutdown - ckt 1
122001	Starter Failed to Arm/Start - ckt 2
122003	Comm Loss: Starter - ckt 2
122004	Comm Loss: Adaptive Frequency Drive - ckt 2
122005	Starter Fault - ckt 2
122006	Comm Loss: Starter Fault - ckt 2
122007	AFD Interrupt Failure - ckt 2
122008	Unexpected Starter Shutdown - ckt 2
131006	Comm Loss: Outdoor Air Temperature
131007	Outdoor Air Temperature Sensor
131008	Excessive Loss of Communication
131022	Software Error 1001: Call Trane Service
131023	Software Error 1004: Call Trane Service
141001	Comm Loss: IGV First Stage Actuator - ckt 1
141001	External Base Loading Setpoint
141002	Comm Loss: Ext Base Loading Setpoint
141002	Comm Loss: IGV Second Stage Actuator - ckt 1
141003	Comm Loss: Ext Base Loading Command
142001	Comm Loss: IGV First Stage Actuator - ckt 2
142002	Comm Loss: IGV Second Stage Actuator - ckt 2



Diagnostic Code (Dec)	Diagnostic Name
161001	Low Evap Leaving Water Temp: Unit Off
161002	Low Evap Leaving Water Temp: Unit On
171001	Low Differential Oil Pressure - ckt 1
171002	Check Oil Filter - ckt 1
171003	Oil Pressure Sensor Calibration - ckt 1
171004	High Vacuum Lockout - ckt 1
171005	Unexpected Differential Oil Pressure - ckt 1
171006	Low Oil Temperature - ckt 1
171007	High Oil Temperature - ckt 1
171008	Differential Oil Pressure Overdue - ckt 1
171009	Comm Loss: Oil Pump Discharge Pressure - ckt 1
171010	Comm Loss: Oil Tank Pressure - ckt 1
171012	Comm Loss: Oil Tank Temperature - ckt 1
171013	Comm Loss: Oil/Refrigerant Pump Relay - ckt 1
171014	Comm Loss: Oil Tank Heater Relay - ckt 1
171015	Oil Pump Discharge Pressure Transducer - ckt 1
171016	Oil Tank Pressure Transducer - ckt 1
171017	Oil Tank Temperature Sensor - ckt 1
171018	Check Oil Heater - ckt 1
171019	Comm Loss: Oil Tank Heater 4E1 Relay - ckt 1
171020	Comm Loss: Oil Tank Heater 4E2 Relay - ckt 1
171021	Comm Loss: Oil Vent Line - ckt 1
171022	Comm Loss: Oil Cooler Solenoid - ckt 1
172001	Low Differential Oil Pressure - ckt 2
172002	Check Oil Filter - ckt 2
172003	Oil Pressure Sensor Calibration - ckt 2
172004	High Vacuum Lockout - ckt 2
172005	Unexpected Differential Oil Pressure - ckt 2
172006	Low Oil Temperature - ckt 2
172007	High Oil Temperature - ckt 2
172008	Differential Oil Pressure Overdue - ckt 2
172009	Comm Loss: Oil Pump Discharge Pressure - ckt 2
172010	Comm Loss: Oil Tank Pressure - ckt 2
172012	Comm Loss: Oil Tank Temperature - ckt 2



Diagnostic Code (Dec)	Diagnostic Name
172013	Comm Loss: Oil/Refrigerant Pump Relay - ckt 2
172014	Comm Loss: Oil Tank Heater Relay - ckt 2
172015	Oil Pump Discharge Pressure Transducer - ckt 2
172016	Oil Tank Pressure Transducer - ckt 2
172017	Oil Tank Temperature Sensor - ckt 2
172018	Check Oil Heater - ckt 2
172019	Comm Loss: Oil Tank Heater 4E1 Relay - ckt 2
172020	Comm Loss: Oil Tank Heater 4E2 Relay - ckt 2
172021	Comm Loss: Oil Vent Line - ckt 2
172022	Comm Loss: Oil Cooler Solenoid - ckt 2
201001	Low Evaporator Refrigerant Temperature - ckt 1
201002	Condenser High Pressure Cutout - ckt 1
201003	Comm Loss: Cond High Pressure Cutout - ckt 1
201004	High Evaporator Refrigerant Temperature - ckt 1
201005	High Differential Refrigerant Pressure - ckt 1
202001	Low Evaporator Refrigerant Temperature - ckt 2
202002	Condenser High Pressure Cutout - ckt 2
202003	Comm Loss: Cond High Pressure Cutout - ckt 2
202004	High Evaporator Refrigerant Temperature - ckt 2
202005	High Differential Refrigerant Pressure - ckt 2
211005	Extended Compressor Surge - ckt 1
211013	RAM Failure in IPC3 Starter Micro
211014	EEPROM Failure in IPC3 Starter Micro
211038	At Speed Input Shorted - ckt 1
211039	Starter Did Not Fully Accelerate - ckt 1
211040	At Speed Input Opened - ckt 1
211080	Starter Comm Loss: Main Processor - ckt 1
211081	Starter Fault Type I - ckt 1
211082	Starter Fault Type II - ckt 1
211083	Starter Fault Type III - ckt 1
211084	Starter Contactor Interrupt Failure - ckt 1
211085	Starter Did Not Transition - ckt 1
211086	Transition Complete Input Shorted - ckt 1
211087	Phase Loss - ckt 1



Diagnostic Code (Dec)	Diagnostic Name
211088	Phase Reversal - ckt 1
211089	Severe Current Unbalance - ckt 1
211090	Power Loss - ckt 1
211091	Momentary Power Loss - ckt 1
211092	Motor Current Overload - ckt 1
211093	Compressor Did Not Accelerate: Shutdown - ckt 1
211095	Cprsr Did Not Accelerate: Transition - ckt 1
211096	Transition Complete Input Opened - ckt 1
211097	Starter Module Memory Error Type 1 - ckt 1
211098	Starter Module Memory Error Type 2 - ckt 1
211099	Starter Dry Run Test - ckt 1
211120	AFD Power Loss - ckt 1
211121	AFD Start Inhibited - ckt 1
211122	AFD Motor Current Overload - ckt 1
211123	AFD Motor Short - ckt 1
211124	AFD Instantaneous Current Overload - ckt 1
211125	AFD High Temperature - ckt 1
211126	AFD Output Phase Loss - ckt 1
211127	AFD Ground Fault - ckt 1
211128	HPC/High AFD Heat Sink Water Pressure - ckt 1
211129	AFD Comm Loss: Main Processor - ckt 1
211130	AFD High Bus Voltage - ckt 1
211131	AFD Control Board Memory Error Type 2 - ckt 1
211132	AFD General Failure - ckt 1
211133	AFD Fatal Software Error - ckt 1
211134	AFD I/O Board Failure - ckt 1
211135	AFD Power Intfc Controller Board Failure - ckt 1
211136	AFD Power Structure Board Failure - ckt 1
211138	AFD DPI Communication Failure - ckt 1
211139	AFD RS485 Board Memory Error Type 2 - ckt 1
211144	High Outboard Bearing Pad Temperature 1 - ckt 1
211145	High Outboard Bearing Pad Temperature 2 - ckt 1
211146	High Outboard Bearing Pad Temperature 3 - ckt 1
211147	Outboard Bearing Pad Temp 1 Sensor - ckt 1



Diagnostic Code (Dec)	Diagnostic Name
211148	Outboard Bearing Pad Temp 2 Sensor - ckt 1
211149	Outboard Bearing Pad Temp 3 Sensor - ckt 1
211150	Comm Loss: Outboard Bearing Pad Temp 1 - ckt 1
211151	Comm Loss: Outboard Bearing Pad Temp 2 - ckt 1
211152	Comm Loss: Outboard Bearing Pad Temp 3 - ckt 1
211160	High Motor Winding Temperature 1 - ckt 1
211161	High Motor Winding Temperature 2 - ckt 1
211162	High Motor Winding Temperature 3 - ckt 1
211163	Comm Loss: Motor Winding Temperature 1 - ckt 1
211164	Comm Loss: Motor Winding Temperature 2 - ckt 1
211165	Comm Loss: Motor Winding Temperature 3 - ckt 1
211166	High Inboard Bearing Temperature - ckt 1
211167	High Outboard Bearing Temp - ckt 1
211168	Comm Loss: Inboard Bearing Temperature - ckt 1
211169	Comm Loss: Outboard Bearing Temperature - ckt 1
211170	High Cprsr Rfgt Discharge Temperature - ckt 1
211171	Comm Loss: Cprsr Discharge Rfgt Temp - ckt 1
211172	Under Voltage - ckt 1
211173	Over Voltage - ckt 1
211174	Motor Winding Temperature 1 Sensor - ckt 1
211175	Motor Winding Temperature 2 Sensor - ckt 1
211176	Motor Winding Temperature 3 Sensor - ckt 1
211177	Inboard Bearing Temp Sensor - ckt 1
211178	Outboard Bearing Temperature Sensor - ckt 1
211179	Cprsr Discharge Refrigerant Temp Sensor - ckt 1
211186	Restart Inhibit - ckt 1
211209	AFD Bus Under Voltage - ckt 1
211226	AFD Bus Over Voltage - ckt 1
211230	AFD Precharge Fault - ckt 1
211231	AFD Over Temperature - ckt 1
211232	AFD Motor Fault - ckt 1
212005	Extended Compressor Surge - ckt 2
212038	At Speed Input Shorted - ckt 2
212039	Starter Did Not Fully Accelerate - ckt 2



Diagnostic Code (Dec)	Diagnostic Name
212040	At Speed Input Opened - ckt 2
212080	Starter Comm Loss: Main Processor - ckt 2
212081	Starter Fault Type I - ckt 2
212082	Starter Fault Type II - ckt 2
212083	Starter Fault Type III - ckt 2
212084	Starter Contactor Interrupt Failure - ckt 2
212085	Starter Did Not Transition - ckt 2
212086	Transition Complete Input Shorted - ckt 2
212087	Phase Loss - ckt 2
212088	Phase Reversal - ckt 2
212089	Severe Current Unbalance - ckt 2
212090	Power Loss - ckt 2
212091	Momentary Power Loss - ckt 2
212092	Motor Current Overload - ckt 2
212093	Compressor Did Not Accelerate: Shutdown - ckt 2
212095	Cprsr Did Not Accelerate: Transition - ckt 2
212096	Transition Complete Input Opened - ckt 2
212097	Starter Module Memory Error Type 1 - ckt 2
212098	Starter Module Memory Error Type 2 - ckt 2
212099	Starter Dry Run Test - ckt 2
212120	AFD Power Loss - ckt 2
212121	AFD Start Inhibited - ckt 2
212122	AFD Motor Current Overload - ckt 2
212123	AFD Motor Short - ckt 2
212124	AFD Instantaneous Current Overload - ckt 2
212125	AFD High Temperature - ckt 2
212126	AFD Output Phase Loss - ckt 2
212127	AFD Ground Fault - ckt 2
212128	HPC/High AFD Heat Sink Water Pressure - ckt 2
212129	AFD Comm Loss: Main Processor - ckt 2
212130	AFD High Bus Voltage - ckt 2
212131	AFD Control Board Memory Error Type 2 - ckt 2
212132	AFD General Failure - ckt 2
212133	AFD Fatal Software Error - ckt 2



Diagnostic Code (Dec)	Diagnostic Name
212134	AFD I/O Board Failure - ckt 2
212135	AFD Power Intfc Controller Board Failure - ckt 2
212136	AFD Power Structure Board Failure - ckt 2
212138	AFD DPI Communication Failure - ckt 2
212139	AFD RS485 Board Memory Error Type 2 - ckt 2
212144	High Outboard Bearing Pad Temperature 1 - ckt 2
212145	High Outboard Bearing Pad Temperature 2 - ckt 2
212146	High Outboard Bearing Pad Temperature 3 - ckt 2
212147	Outboard Bearing Pad Temp 1 Sensor - ckt 2
212148	Outboard Bearing Pad Temp 2 Sensor - ckt 2
212149	Outboard Bearing Pad Temp 3 Sensor - ckt 2
212150	Comm Loss: Outboard Bearing Pad Temp 1 - ckt 2
212151	Comm Loss: Outboard Bearing Pad Temp 2 - ckt 2
212152	Comm Loss: Outboard Bearing Pad Temp 3 - ckt 2
212160	High Motor Winding Temperature 1 - ckt 2
212161	High Motor Winding Temperature 2 - ckt 2
212162	High Motor Winding Temperature 3 - ckt 2
212163	Comm Loss: Motor Winding Temperature 1 - ckt 2
212164	Comm Loss: Motor Winding Temperature 2 - ckt 2
212165	Comm Loss: Motor Winding Temperature 3 - ckt 2
212166	High Inboard Bearing Temperature - ckt 2
212167	High Outboard Bearing Temp - ckt 2
212168	Comm Loss: Inboard Bearing Temperature - ckt 2
212169	Comm Loss: Outboard Bearing Temperature - ckt 2
212170	High Cprsr Rfgt Discharge Temperature - ckt 2
212171	Comm Loss: Cprsr Discharge Rfgt Temp - ckt 2
212172	Under Voltage - ckt 2
212173	Over Voltage - ckt 2
212174	Motor Winding Temperature 1 Sensor - ckt 2
212175	Motor Winding Temperature 2 Sensor - ckt 2
212176	Motor Winding Temperature 3 Sensor - ckt 2
212177	Inboard Bearing Temp Sensor - ckt 2
212178	Outboard Bearing Temperature Sensor - ckt 2



Diagnostic Code (Dec)	Diagnostic Name
212179	Cprsr Discharge Refrigerant Temp Sensor - ckt 2
212186	Restart Inhibit - ckt 2
212209	AFD Bus Under Voltage - ckt 2
212226	AFD Bus Over Voltage - ckt 2
212230	AFD Precharge Fault - ckt 2
212231	AFD Over Temperature - ckt 2
212232	AFD Motor Fault - ckt 2
241001	Comm Loss: External Ice Building Command
241002	Comm Loss: Ice Building Relay
261001	Extended Compressor Surge - ckt 1
262001	Extended Compressor Surge - ckt 2
281001	Comm Loss: Hot Gas Bypass Load Relay
281002	Comm Loss: Hot Gas Bypass Actr Closed In
281003	Comm Loss: Hot Gas Bypass Unload Relay
281004	Hot Gas Bypass Valve Closure Overdue
281005	Hot Gas Bypass Valve Opening Overdue
281006	Hot Gas Bypass Valve Unexpectedly Open
381001	Condenser Liquid Level Sensor - ckt 1
381002	Comm Loss: Condenser Liquid Level Sensor - ckt 1
381005	Comm Loss: Economizer Bypass Valve - ckt 1
381006	Loss of Economizer Bypass Valve Control - ckt 1
382001	Condenser Liquid Level Sensor - ckt 2
382002	Comm Loss: Condenser Liquid Level Sensor - ckt 2
382005	Comm Loss: Economizer Bypass Valve - ckt 2
382006	Loss of Economizer Bypass Valve Control - ckt 2