



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.



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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

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BACnet® and Modbus™

CenTraVac™ Simplex

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Reference Document: BAS-SVP083*-EN



BACnet Object Identifier	Modbus Register	Object Name	Units	Configuration Dependency
AI-10100	30011	Active Chilled Water Setpoint	Temperature	Standard
AI-10101	30013	Chilled Water Setpoint Status	Temperature	Standard
AI-10102	30015	Active Base Loading Setpoint	Percent	Base Loading
AI-10103	30017	Active Hot Water Setpoint	Temperature	Hot Water Control
AI-10104	30019	Calculated Chiller Capacity	Power, Cooling	Evap Water Flow Sensing
AI-10105	30021	Total Demand Distortion	Percent	Active Harmonic Dampening
AI-10106	30023	Active Cool/Heat Setpoint Temperature	Temperature	Standard
AI-10107	30025	Evaporator Leaving Water Temperature	Temperature	Standard
AI-10108	30027	Evaporator Entering Water Temperature	Temperature	Standard
AI-10109	30029	Condenser Entering Water Temperature	Temperature	Standard
AI-10110	30031	Condenser Leaving Water Temperature	Temperature	Standard
AI-10111	30033	Evaporator Water Flow Rate	Flow, water	Evap Water Flow Sensing
AI-10112	30035	Evaporator Differential Water Pressure	Differential Pressure	Evap Water Flow Differential Pressure or Dual Pressure Sensors
AI-10113	30037	Condenser Water Flow Rate	Flow, water	Cond Water Flow Sensing
AI-10114	30039	Condenser Differential Water Pressure	Differential Pressure	Cond Water Flow Differential Pressure or Dual Pressure Sensors
AI-10115	30041	Heat Recovery Entering Water Temperature	Temperature	Heat Recovery
AI-10116	30043	Heat Recovery Leaving Water Temperature	Temperature	Heat Recovery
AI-10117	30045	AFD Last Diagnostic Code Ckt1	None	Unit Mount AFD w/o THD filter Remote Mount Comm AFD (PF6000)
AI-10118	30047	Unit Source ID (Last Diagnostic Code)	None	Standard
AI-10119	30049	Drive Input Voltage Calculated	Voltage	TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755)
AI-10120	30051	Number of Circuits	None	Standard
AI-10121	30053	Number of Compressors Circuit 1	None	Standard
AI-10122	30055	Number of Compressors Circuit 2	None	Standard
AI-10123	30057	Refrigerant Monitor	Concentration	Refrigerant Monitor
AI-10124	30059	Evaporator Refrigerant Pressure Circuit 1	Pressure	Standard
AI-10125	30061	Condenser Refrigerant Pressure Circuit 1	Pressure	Standard
AI-10126	30063	Differential Refrigerant Pressure Circuit 1	Differential Pressure	Standard
AI-10127	30065	Low Side Oil Pressure - Compressor 1A	Pressure	Not CVHS or CVGF CVR w/Oil Pressure Transducers or Oil Lite
AI-10128	30067	High Side Oil Pressure - Compressor 1A	Pressure	Not CVHS or CVGF CVR w/Oil Pressure Transducers or Oil Lite

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AI-10129	30069	Oil Differential Pressure Circuit 1	Differential Pressure	Not CVHS or CVGF CVR w/Oil Pressure Transducers or Oil Lite
AI-10130	30071	Oil Temperature - Compressor 1A	Temperature	Not CVHS
AI-10131	30073	Evaporator Saturated Refrigerant Temperature Circuit 1	Temperature	Standard
AI-10132	30075	Condenser Saturated Refrigerant Temperature Circuit 1	Temperature	Standard
AI-10133	30077	Refrigerant Discharge Temperature - Compressor 1A	Temperature	Discharge Temperature Protection
AI-10134	30079	Inlet Guide Vane 1 Percent Open Circuit 1	Percent	Standard
AI-10135	30081	Inlet Guide Vane 2 Percent Open Circuit 1	Percent	Dual IGV2
AI-10136	30083	Purge Carbon Tank Temperature Circuit 1	Temperature	Purge w/Carbon Tank
AI-10137	30085	Purge Liquid Temperature Circuit 1	Temperature	Purge
AI-10138	30087	Purge Refrigerant Compressor Suction Temperature Circuit 1	Temperature	Purge
AI-10139	30089	Time Until Next Purge Run Circuit 1 (in seconds)	None	Purge
AI-10140	30091	Purge Pumpout Chiller On % (7 Days) Circuit 1	Percent	Purge
AI-10141	30093	Purge Pumpout Chiller Off % (7 Days) Circuit 1	Percent	Purge
AI-10142	30095	Purge 24 Hour Pumpout Circuit 1 (in seconds)	None	Purge
AI-10143	30097	Purge Pumpout - Life Circuit 1 (in seconds)	None	Purge
AI-10144	30099	Refrigeration - Life Circuit 1 (in seconds)	None	Purge
AI-10145	30101	Starts - Compressor 1A	None	Standard
AI-10146	30103	Run Time - Compressor 1A (in seconds)	None	Standard
AI-10147	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)
AI-10148	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)
AI-10149	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)

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BACnet Object Identifier	Modbus Register	Object Name	Units	Configuration Dependency
AI-10150	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)
AI-10151	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)
AI-10152	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)
AI-10153	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)
AI-10154	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)
AI-10155	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)
AI-10156	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)

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BACnet Object Identifier	Modbus Register	Object Name	Units	Configuration Dependency
AI-10157	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)
AI-10158	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)
AI-10159	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) TR200 Modbus AFD Communicating AFD (AFD3) Communicating AFD (PF755) Energy Meter
AI-10160	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)
AI-10161	30133	Inboard Bearing Temperature Circuit 1	Temperature	Bearing Temp Sensors (Not CVHM)
AI-10162	30135	Outboard Bearing Temperature Circuit 1	Temperature	Bearing Temp Sensors
AI-10163	30137	Motor Winding Temperature 1 Circuit 1	Temperature	Standard
AI-10164	30139	Motor Winding Temperature 2 Circuit 1	Temperature	Standard
AI-10165	30141	Motor Winding Temperature 3 Circuit 1	Temperature	Not CVHS and CVHM
AI-10166	30143	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)



BACnet Object Identifier	Modbus Register	Object Name	Units	Configuration Dependency
AI-10167	30145	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	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)
AI-10169	30149	Drive Current Line 1 Circuit 1	Current	Unit Mount AFD (LF2) w/Line Side Items
AI-10170	30151	Drive Current Line 2 Circuit 1	Current	Unit Mount AFD (LF2) w/Line Side Items
AI-10171	30153	Drive Current Line 3 Circuit 1	Current	Unit Mount AFD (LF2) w/Line Side Items
AI-10172	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)
AI-10173	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)
AI-10174	30159	Drive Inverter Base Temperature Circuit 1	Temperature	Unit Mount AFD (LF2) w/Line Side Items Communicating AFD (AFD3)
AI-10175	30161	Drive Rectifier Base Temperature Circuit 1	Temperature	Unit Mount AFD (LF2) w/Line Side Items Communicating AFD (AFD3)
AI-10176	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)
AI-10177	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)
AI-10178	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)

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BACnet Object Identifier	Modbus Register	Object Name	Units	Configuration Dependency
AI-10179	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)
AI-10180	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)
AI-10181	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)
AI-10182	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)
AI-10183	30177	Drive Motor Voltage UV Circuit 1	Voltage	Communicating AFD (AFD3)
AI-10184	30179	Drive Motor Voltage VW Circuit 1	Voltage	Communicating AFD (AFD3)
AI-10185	30181	Drive Motor Voltage WU Circuit 1	Voltage	Communicating AFD (AFD3)
AI-10186	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)
AI-10187	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)
AI-10188	30187	Lube Differential Pressure	Differential Pressure	CVHS
AI-10189	30189	Lube Pump Suction Pressure	Pressure	CVHS
AI-10190	30191	Lube Pump Discharge Pressure	Pressure	CVHS
AI-10191	30193	Motor Coolant Temperature	Temperature	MTC Temp Sensor
AI-10192	30195	AFD % RLA Ripple	Percent	Communicating AFD (AFD3)
AI-10193	30197	AFD Inverter Module Temperature U	Temperature	Communicating AFD (AFD3)
AI-10194	30199	AFD Inverter Module Temperature V	Temperature	Communicating AFD (AFD3)
AI-10195	30201	AFD Inverter Module Temperature W	Temperature	Communicating AFD (AFD3)
AI-10196	30203	Outboard Bearing Pad Temperature #1 Ckt1	Temperature	CVHH

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AI-10197	30205	Outboard Bearing Pad Temperature #2 Ckt1	Temperature	CVHH
AI-10198	30207	Outboard Bearing Pad Temperature #3 Ckt1	Temperature	CVHH
AI-10199	30209	Condenser Control Output	Percent	Head Pressure Control
AI-10200	30211	Restart Inhibit Time Remaining	None	Standard
AI-10201	30213	Chiller Design Capacity	Power, Cooling	Standard
AI-10202	30215	Entering Condenser Water Pressure	Pressure	Condenser Water Flow Differential Pressure Sensors
AI-10203	30217	Entering Evaporator Water Pressure	Pressure	Evaporator Water Flow Differential Pressure Sensors
AI-10204	30219	Leaving Condenser Water Pressure	Pressure	Condenser Water Flow Differential Pressure Sensors
AI-10205	30221	Leaving Evaporator Water Pressure	Pressure	Evaporator Water Flow Differential Pressure Sensors
AI-10206	30223	Condenser Approach Temperature Circuit 1	Temperature, Delta	Standard
AI-10207	30225	Evaporator Approach Temperature Circuit 1	Temperature, Delta	Standard
AI-10208	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)
AI-10209	30229	Active Demand Limit Setpoint	Percent	Standard
AI-10210	30231	Demand Limit Setpoint Status	Percent	Ice Building
AI-10211	30233	Drive Heatsink Temperature Compressor 1A	Temperature	TR200 Modbus AFD
AI-10212	30235	Heat Recovery Differential Water Pressure	Differential Pressure	Heat Recovery Water Flow Differential Pressure or Dual Pressure Sensors
AI-10213	30237	Heat Recovery Water Flow Rate	Flow, water	Heat Recovery Water Flow Sensing
AI-10214	30239	Heat Recovery Calculated Capacity	Power, Heating	Heat Recovery Water Flow Sensing
AI-10215	30241	Heat Recovery Entering Water Pressure	Pressure	Heat Recovery Water Flow Differential Pressure Sensors
AI-10216	30243	Heat Recovery Leaving Water Pressure	Pressure	Heat Recovery Water Flow Differential Pressure Sensors
AI-10217	30245	Voltage L1-L2	Voltage	Energy Meter
AI-10218	30247	Voltage L2-L3	Voltage	Energy Meter
AI-10219	30249	Voltage L1-L3	Voltage	Energy Meter
AI-10220	30251	Chiller Average Line Voltage	Voltage	Energy Meter
AI-10221	30253	Current L1	Current	Energy Meter
AI-10222	30255	Current L2	Current	Energy Meter
AI-10223	30257	Current L3	Current	Energy Meter
AI-10224	30259	Unit Average Line Current	Current	Energy Meter

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BACnet Object Identifier	Modbus Register	Object Name	Units	Configuration Dependency
AI-10225	30261	Line Frequency	None	Energy Meter
AI-10226	30263	Power Factor	None	Energy Meter
AI-10227	30265	Unit Power Demand	None	Energy Meter
AI-10228	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) Communicating AFD (PF755)
AI-10229	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) Communicating AFD (PF755)
AI-10230	30271	Outdoor Air Temperature Local	Temperature	Outdoor Air Temperature
AI-10231	30273	Heat Recovery Approach Temperature Circuit 1	Temperature, Delta	Heat Recovery
AI-10232	30275	High Side Oil Gauge Pressure - Compressor 1A	Pressure	Standard
AI-10233	30277	Low Side Oil Gauge Pressure - Compressor 1A	Pressure	Standard
AI-10234	30279	Condenser Refrigerant Gauge Pressure Circuit 1	Pressure	Standard
AI-10235	30281	Entering Condenser Water Gauge Pressure	Pressure	Condenser Water Flow Differential Pressure Sensors
AI-10236	30283	Entering Evaporator Water Gauge Pressure	Pressure	Evaporator Water Flow Differential Pressure Sensors
AI-10237	30285	Evaporator Refrigerant Gauge Pressure Circuit 1	Pressure	Standard
AI-10238	30287	Heat Recovery Entering Water Gauge Pressure	Pressure	Heat Recovery Water Flow Differential Pressure Sensors
AI-10239	30289	Heat Recovery Leaving Water Gauge Pressure	Pressure	Heat Recovery Water Flow Differential Pressure Sensors
AI-10240	30291	Leaving Condenser Water Gauge Pressure	Pressure	Condenser Water Flow Differential Pressure Sensors
AI-10241	30293	Leaving Evaporator Water Gauge Pressure	Pressure	Evaporator Water Flow Differential Pressure Sensors
AI-10242	30295	Lube Pump Suction Gauge Pressure	Pressure	CVHS
AI-10243	30297	Lube Pump Discharge Gauge Pressure	Pressure	CVHS
AI-10244	30299	Active Cooling Differential to Start	Temperature, Delta	Standard
AI-10245	30301	Active Cooling Differential to Stop	Temperature, Delta	Standard
AI-10246	30303	Active Heating Differential to Start	Temperature, Delta	Hot Water Control
AI-10247	30305	Active Heating Differential to Stop	Temperature, Delta	Hot Water Control
AI-10248	30307	Calculated Heating Capacity	Power, Heating	Cond Water Flow Sensing

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BACnet Object Identifier	Modbus Register	Object Name	Units	Configuration Dependency
AI-10249	30309	Discharge Superheat Compressor 1A	Temperature, Delta	Discharge Temperature Protection

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AV-10100	40011	Chilled Water Setpoint	Temperature	Standard
AV-10101	40013	Demand Limit Setpoint	Percent	Standard
AV-10102	40015	Hot Water Setpoint	Temperature	Hot Water Control
AV-10103	40017	Base Loading Setpoint	Percent	Base Loading

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BACnet Object Identifier	Modbus Register	Object Name	Object States	Configuration Dependency
BI-10100	33011	Base Loading Request Active	0 = Off 1 = On	Base Loading
BI-10101	33012	Emergency Stop	0 = Auto 1 = Emergency Stop - Manual Reset Required	Standard
BI-10102	33013	Manual Override Exists	0 = Off 1 = On	Standard
BI-10103	33014	Base Loading Active	0 = Inactive 1 = Active	Base Loading
BI-10104	33015	Run Enabled	0 = Run Not Enabled 1 = Run Enabled	Standard
BI-10105	33016	Local Setpoint Control	0 = Remote Control 1 = Local Control	Standard
BI-10106	33017	Maximum Capacity	0 = Off 1 = On	Standard
BI-10107	33018	Evaporator Leaving Water Temperature	0 = Not Limited 1 = Limited	Standard
BI-10108	33019	Head Relief Request	0 = Off 1 = On	Standard
BI-10109	33020	Hot Gas Bypass Active	0 = Inactive 1 = Active	Hot Gas Bypass
BI-10110	33021	Purge Compressor Relay Circuit 1	0 = Off 1 = On	Purge
BI-10111	33022	Pump Out Relay Circuit 1	0 = Off 1 = On	Purge
BI-10112	33023	Purge Regenerating Valve Solenoid Circuit 1	0 = Off 1 = On	Purge w/Carbon Tank
BI-10113	33024	Chiller Running State	0 = Off 1 = On	Standard
BI-10114	33025	Evaporator Water Pump Request	0 = Off 1 = On	Standard
BI-10115	33026	Evaporator Water Flow Status	0 = No Flow 1 = Flow	Standard
BI-10116	33027	Condenser Water Pump Request	0 = Off 1 = On	Standard
BI-10117	33028	Condenser Water Flow Status	0 = No Flow 1 = Flow	Standard
BI-10118	33029	Diagnostic Present	0 = Normal 1 = In Alarm	Standard
BI-10119	33030	Diagnostic Shutdown Present	0 = Normal 1 = In Alarm	Standard
BI-10120	33031	Diagnostic: Manual Reset Required	0 = Normal 1 = In Alarm	Standard
BI-10121	33032	Diagnostic: Local Manual Reset Required	0 = Normal 1 = In Alarm	Standard
BI-10122	33033	Diagnostic Present: Information	0 = Normal 1 = In Alarm	Standard
BI-10123	33034	Diagnostic Present: Advisory	0 = Normal 1 = In Alarm	Standard

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BACnet Object Identifier	Modbus Register	Object Name	Object States	Configuration Dependency
BI-10124	33035	Diagnostic Present: Critical	0 = Normal 1 = In Alarm	Standard
BI-10125	33036	Diagnostic Present: Service Required	0 = Normal 1 = In Alarm	Standard
BI-10126	33037	Compressor 1A Status	0 = Off 1 = Running	Standard
BI-10127	33038	Front Panel Auto Stop	0 = Stop 1 = Auto	Standard
BI-10128	33039	External Auto Stop Input Status	0 = Stop 1 = Auto	Standard
BI-10129	33040	Heat Recovery Water Flow Status	0 = No Flow 1 = Flow	Heat Recovery Water Flow Switch
BI-10130	33041	AFD Shutdown Diagnostic Present Circuit 1	0 = Normal 1 = In Alarm	Standard



BACnet Object Identifier	Modbus Register	Diagnostic Name	Object States	Configuration Dependency
BI-11000	34001	Diagnostic: AFD AD Calibration Error Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11001	34002	Diagnostic: AFD AHD Frequency Out of Range Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11002	34003	Diagnostic: AFD AHD Sync Signal Error Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11003	34004	Diagnostic: AFD Bump Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11004	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)
BI-11005	34006	Diagnostic: AFD Bus Ripple Too High Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11006	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)
BI-11007	34008	Evaporator Leaving Water Temperature	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
BI-11008	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)
BI-11009	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)
BI-11010	34011	Diagnostic: AFD Current Sensor Self Test Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11011	34012	Diagnostic: AFD Desaturation Detected Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11012	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)
BI-11013	34014	Diagnostic: AFD Drive Fault Circuit 1	0 = Normal 1 = In Alarm	MV Remote Mount Comm AFD
BI-11014	34015	Diagnostic: AFD DSP Board ID Error Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11015	34016	Diagnostic: AFD DSP Board Initialization Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11016	34017	Diagnostic: AFD DSP Board Low Voltage Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11017	34018	Diagnostic: AFD DSP Board Over Temp Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11018	34019	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	34020	Diagnostic: AFD Estimated Junction Over Temp Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)



BACnet Object Identifier	Modbus Register	Diagnostic Name	Object States	Configuration Dependency
BI-11020	34021	Diagnostic: AFD Excessive AHD Inhibit Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11021	34022	Diagnostic: AFD External Fault Input Circuit 1	0 = Normal 1 = In Alarm	Unit Mount Comm AFD - AFDY (PF755)
BI-11022	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)
BI-11023	34024	Diagnostic: AFD Fault Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
BI-11024	34025	Diagnostic: AFD Gate Drive Board Over Temp Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11025	34026	Diagnostic: AFD Gate Drive Fault Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11026	34027	Diagnostic: AFD Gate Drive Low Voltage Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11027	34028	Diagnostic: AFD Gate Drive Module Comm Loss Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11028	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)
BI-11029	34030	Diagnostic: AFD General Failure Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
BI-11030	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 Remote Mount Comm AFD - VFDB (PF6000)
BI-11031	34032	Diagnostic: AFD Ground Fault Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
BI-11032	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 Remote Mount Comm AFD - VFDB (PF6000)
BI-11033	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)
BI-11034	34035	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	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)
BI-11036	34037	Diagnostic: AFD IGBT Self Test Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11037	34038	Diagnostic: AFD IMC 24V Detection Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11038	34039	Diagnostic: AFD Input Transformer or Filter High Temp Circuit 1	0 = Normal 1 = In Alarm	Unit Mount Comm AFD - AFDY (PF755)



BACnet Object Identifier	Modbus Register	Diagnostic Name	Object States	Configuration Dependency
BI-11039	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)
BI-11040	34041	Diagnostic: AFD Interrupt Failure Circuit 1	0 = Normal 1 = In Alarm	Communicating AFD
BI-11041	34042	Diagnostic: AFD Invalid Drive Command Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11042	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
BI-11043	34044	Diagnostic: AFD Loss of AHD Sync Signal Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11044	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)
BI-11045	34046	Diagnostic: AFD Mains Phase Loss Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
BI-11046	34047	Diagnostic: AFD Motor Current Overload Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
BI-11047	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)
BI-11048	34049	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	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)
BI-11050	34051	Diagnostic: AFD Non-Volatile Memory Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11051	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)
BI-11052	34053	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	34054	Diagnostic: AFD Overspeed Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11054	34055	Diagnostic: AFD Panel Interlock Fault Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11055	34056	Diagnostic: AFD Panel Interlock Warning Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11056	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)



BACnet Object Identifier	Modbus Register	Diagnostic Name	Object States	Configuration Dependency
BI-11057	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)
BI-11058	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)
BI-11059	34060	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	34061	Diagnostic: AFD Rectifier Heatsink Over Temp Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11061	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)
BI-11062	34063	Diagnostic: AFD Safe Stop Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
BI-11063	34064	Diagnostic: AFD Short Circuit Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
BI-11064	34065	Diagnostic: AFD Speed Configuration Mismatch Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD (TR200)
BI-11065	34066	Diagnostic: AFD Start Failure Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11066	34067	Diagnostic: AFD Temperature Sensor Warning Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11067	34068	Diagnostic: AFD Watchdog Timer Overflow Circuit 1	0 = Normal 1 = In Alarm	Unit Mount AFD - AFDN,P (AFD3)
BI-11068	34069	Diagnostic: At Speed Input Opened Circuit 1	0 = Normal 1 = In Alarm	Non-comm AFD Solid State Starter
BI-11069	34070	Diagnostic: At Speed Input Shorted Circuit 1	0 = Normal 1 = In Alarm	Non-comm AFD Solid State Starter
BI-11070	34071	Diagnostic: Bearing Lube Flow First Stage Sensor Input	0 = Normal 1 = In Alarm	CVHS
BI-11071	34072	Diagnostic: Bearing Lube Flow Second Stage Sensor Input	0 = Normal 1 = In Alarm	CVHS
BI-11072	34073	Diagnostic: Brg Lube Flow Overdue First Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11073	34074	Diagnostic: Brg Lube Flow Overdue Second Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11075	34076	Diagnostic: Check Lube Filter Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11076	34077	Diagnostic: Check Oil Filter Circuit 1	0 = Normal 1 = In Alarm	Oil Pump
BI-11077	34078	Diagnostic: Check Oil Heater Circuit 1	0 = Normal 1 = In Alarm	Oil Heater
BI-11078	34079	Comm Loss: Adaptive Frequency Drive Circuit 1	0 = Normal 1 = In Alarm	Communicating AFD
BI-11079	34080	Comm Loss: AFD Speed Signal VDC Output Circuit 1	0 = Normal 1 = In Alarm	Non-comm AFD
BI-11080	34081	Comm Loss: Bearing Lube Flow First Stage	0 = Normal 1 = In Alarm	CVHS

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BACnet Object Identifier	Modbus Register	Diagnostic Name	Object States	Configuration Dependency
BI-11081	34082	Comm Loss: Bearing Lube Flow Second Stage	0 = Normal 1 = In Alarm	CVHS
BI-11082	34083	Comm Loss: Compressor Motor % RLA Output Circuit 1	0 = Normal 1 = In Alarm	% RLA Output
BI-11083	34084	Comm Loss: Cond Diff Water Pressure	0 = Normal 1 = In Alarm	Cond Differential Pressure Flow Measurement
BI-11084	34085	Comm Loss: Cond Head Press Cntrl Output	0 = Normal 1 = In Alarm	Head Pressure Control
BI-11085	34086	Comm Loss: Cond High Pressure Cutout	0 = Normal 1 = In Alarm	Standard
BI-11086	34087	Comm Loss: Cond Lubrication Source Valve	0 = Normal 1 = In Alarm	CVHS
BI-11087	34088	Comm Loss: Cond Refrigerant Pressure	0 = Normal 1 = In Alarm	Standard
BI-11088	34089	Comm Loss: Cond Rfgt Pressure Output	0 = Normal 1 = In Alarm	Cond Refrigerant Pressure Output
BI-11089	34090	Comm Loss: Cond Saturated Rfgt Temp	0 = Normal 1 = In Alarm	Standard
BI-11090	34091	Comm Loss: Condenser Entering Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensor
BI-11091	34092	Comm Loss: Condenser Entering Water Temp	0 = Normal 1 = In Alarm	Standard
BI-11092	34093	Comm Loss: Condenser Leaving Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensor
BI-11093	34094	Comm Loss: Condenser Leaving Water Temp	0 = Normal 1 = In Alarm	Standard
BI-11094	34095	Comm Loss: Condenser Liquid Level Sensor	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11096	34097	Comm Loss: Condenser Water Flow Switch	0 = Normal 1 = In Alarm	Standard
BI-11097	34098	Comm Loss: Condenser Water Pump Relay	0 = Normal 1 = In Alarm	Standard
BI-11098	34099	Comm Loss: Cprsr Discharge Rfgt Temp	0 = Normal 1 = In Alarm	Compressor Discharge Temp Sensor
BI-11099	34100	Comm Loss: Economizer Bypass Valve	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11102	34103	Comm Loss: Emergency Stop	0 = Normal 1 = In Alarm	Standard
BI-11103	34104	Comm Loss: Energy Meter Circuit 1	0 = Normal 1 = In Alarm	Energy Meter
BI-11104	34105	Comm Loss: Evap Diff Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Differential Pressure
BI-11105	34106	Comm Loss: Evap Entering Water Temp	0 = Normal 1 = In Alarm	Standard
BI-11106	34107	Comm Loss: Evap Leaving Water Temp	0 = Normal 1 = In Alarm	Standard
BI-11107	34108	Comm Loss: Evap Lube Source Valve Relay	0 = Normal 1 = In Alarm	CVHS

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BACnet Object Identifier	Modbus Register	Diagnostic Name	Object States	Configuration Dependency
BI-11108	34109	Comm Loss: Evap Saturated Rfgt Temp	0 = Normal 1 = In Alarm	Standard
BI-11109	34110	Comm Loss: Evaporator Entering Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Dual Pressure Sensor
BI-11110	34111	Comm Loss: Evaporator Leaving Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Dual Pressure Sensor
BI-11111	34112	Comm Loss: Evaporator Water Flow Switch	0 = Normal 1 = In Alarm	Standard
BI-11112	34113	Comm Loss: Evaporator Water Pump Relay	0 = Normal 1 = In Alarm	Standard
BI-11113	34114	Comm Loss: Ext Base Loading Command	0 = Normal 1 = In Alarm	Base Loading
BI-11114	34115	Comm Loss: Ext Base Loading Setpoint	0 = Normal 1 = In Alarm	Base Loading
BI-11115	34116	Comm Loss: Ext Chilled/Hot Water Setpoint	0 = Normal 1 = In Alarm	External Chilled Water Setpoint
BI-11116	34117	Comm Loss: Ext Demand Limit Setpoint	0 = Normal 1 = In Alarm	External Demand Limit
BI-11117	34118	Comm Loss: External Auto/Stop	0 = Normal 1 = In Alarm	Standard
BI-11118	34119	Comm Loss: External Free Cooling Command	0 = Normal 1 = In Alarm	Free Cooling
BI-11119	34120	Comm Loss: External Hot Water Command	0 = Normal 1 = In Alarm	Hot Water Control
BI-11120	34121	Comm Loss: External Ice Building Command	0 = Normal 1 = In Alarm	Ice Building
BI-11121	34122	Comm Loss: Free Cool Actrs Closed Input	0 = Normal 1 = In Alarm	Free Cooling
BI-11122	34123	Comm Loss: Free Cool Gas Line Actr Relay	0 = Normal 1 = In Alarm	Free Cooling
BI-11123	34124	Comm Loss: Free Cool Liq Line Actr Relay	0 = Normal 1 = In Alarm	Free Cooling
BI-11124	34125	Comm Loss: Free Cooling Auxiliary Relay	0 = Normal 1 = In Alarm	Free Cooling
BI-11125	34126	Comm Loss: Generator Fault Input	0 = Normal 1 = In Alarm	Engine Generator Power Source
BI-11126	34127	Comm Loss: Generator Speed Signal Output	0 = Normal 1 = In Alarm	Engine Generator Power Source
BI-11127	34128	Comm Loss: Generator Start/Stop Relay	0 = Normal 1 = In Alarm	Engine Generator Power Source
BI-11128	34129	Comm Loss: Generator Up To Speed Input	0 = Normal 1 = In Alarm	Engine Generator Power Source
BI-11129	34130	Comm Loss: Heat Recovery Differential Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery Water Flow Measurement - Differential Pressure
BI-11130	34131	Comm Loss: Heat Recovery Entering Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery Water Flow Measurement - Dual Pressure Sensor
BI-11131	34132	Comm Loss: Heat Recovery Entering Water Temp	0 = Normal 1 = In Alarm	Heat Recovery

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BI-11132	34133	Comm Loss: Heat Recovery Leaving Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery Water Flow Measurement - Dual Pressure Sensor
BI-11133	34134	Comm Loss: Heat Recovery Leaving Water Temp	0 = Normal 1 = In Alarm	Heat Recovery
BI-11134	34135	Comm Loss: Heat Recovery Water Flow Switch	0 = Normal 1 = In Alarm	Heat Recovery Water Flow Switch
BI-11135	34136	Comm Loss: High Lift Unload Valve Relay	0 = Normal 1 = In Alarm	CVGF
BI-11136	34137	Comm Loss: Hot Gas Bypass Actr Closed In	0 = Normal 1 = In Alarm	Hot Gas Bypass
BI-11137	34138	Comm Loss: Hot Gas Bypass Load Relay	0 = Normal 1 = In Alarm	Hot Gas Bypass
BI-11138	34139	Comm Loss: Hot Gas Bypass Unload Relay	0 = Normal 1 = In Alarm	Hot Gas Bypass
BI-11139	34140	Comm Loss: Ice Building Relay	0 = Normal 1 = In Alarm	Ice Building
BI-11140	34141	Comm Loss: IGV First Stage Actuator Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11141	34142	Comm Loss: IGV Second Stage Actuator Circuit 1	0 = Normal 1 = In Alarm	Dual Actuators
BI-11142	34143	Comm Loss: Inboard Bearing Temperature Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensor
BI-11143	34144	Comm Loss: Lube Pump Discharge Pressure	0 = Normal 1 = In Alarm	CVHS
BI-11144	34145	Comm Loss: Lube Pump Suction Pressure	0 = Normal 1 = In Alarm	CVHS
BI-11145	34146	Comm Loss: Lube/Refrigerant Pump Relay	0 = Normal 1 = In Alarm	CVHS
BI-11146	34147	Comm Loss: Motor Coolant Temperature	0 = Normal 1 = In Alarm	MTC Temperature Sensor
BI-11147	34148	Comm Loss: Motor Temp/Overload	0 = Normal 1 = In Alarm	"Lite" Motor Temp Protection
BI-11148	34149	Comm Loss: Motor Temperature Cutout	0 = Normal 1 = In Alarm	MTC Switch
BI-11149	34150	Comm Loss: Motor Winding Temperature 1 Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M,S CVGF
BI-11150	34151	Comm Loss: Motor Winding Temperature 2 Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M,S CVGF
BI-11151	34152	Comm Loss: Motor Winding Temperature 3 Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L CVGF
BI-11152	34153	Comm Loss: Oil Cooler Solenoid Circuit 1	0 = Normal 1 = In Alarm	CVHH Oil Cooler Solenoid Valve
BI-11153	34154	Comm Loss: Oil Diff Pressure Switch Circuit 1	0 = Normal 1 = In Alarm	CVGF
BI-11154	34155	Comm Loss: Oil Pressure Status Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M
BI-11155	34156	Comm Loss: Oil Pump Discharge Pressure Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M

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BI-11156	34157	Comm Loss: Oil Tank Heater 4E1 Relay Circuit 1	0 = Normal 1 = In Alarm	CVHH CVGF
BI-11157	34158	Comm Loss: Oil Tank Heater 4E2 Relay Circuit 1	0 = Normal 1 = In Alarm	CVHH CVGF
BI-11158	34159	Comm Loss: Oil Tank Heater Relay Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M
BI-11159	34160	Comm Loss: Oil Tank Pressure Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M
BI-11160	34161	Comm Loss: Oil Tank Temperature Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M CVGF
BI-11161	34162	Comm Loss: Oil Vent Line Circuit 1	0 = Normal 1 = In Alarm	CVHH
BI-11162	34163	Comm Loss: Oil/Refrigerant Pump Relay Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M CVGF
BI-11163	34164	Comm Loss: Outboard Bearing Pad Temp 1 Circuit 1	0 = Normal 1 = In Alarm	CVHH
BI-11164	34165	Comm Loss: Outboard Bearing Pad Temp 2 Circuit 1	0 = Normal 1 = In Alarm	CVHH
BI-11165	34166	Comm Loss: Outboard Bearing Pad Temp 3 Circuit 1	0 = Normal 1 = In Alarm	CVHH
BI-11166	34167	Comm Loss: Outboard Bearing Temperature Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensor
BI-11167	34168	Comm Loss: Outdoor Air Temperature	0 = Normal 1 = In Alarm	Outdoor Air Temp Sensor
BI-11168	34169	Comm Loss: Programmable Relay Board 1	0 = Normal 1 = In Alarm	Programmable Status Relays
BI-11169	34170	Comm Loss: Programmable Relay Board 2	0 = Normal 1 = In Alarm	Programmable Status Relays
BI-11170	34171	Comm Loss: Purge Alarm Relay Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11171	34172	Comm Loss: Purge Carbon Tank Heater Rly Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank
BI-11172	34173	Comm Loss: Purge Carbon Tank Temperature Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank
BI-11173	34174	Comm Loss: Purge Condensing Unit Relay Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11174	34175	Comm Loss: Purge Cprsr Suction Rfgt Temp Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11175	34176	Comm Loss: Purge Exhaust Solenoid Output Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11176	34177	Comm Loss: Purge Liquid Level Switch Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11177	34178	Comm Loss: Purge Pumpout Relay Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11178	34179	Comm Loss: Purge Pumpout Solenoid Output Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11179	34180	Comm Loss: Purge Regen Solenoid Relay Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank

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BACnet Object Identifier	Modbus Register	Diagnostic Name	Object States	Configuration Dependency
BI-11180	34181	Comm Loss: Refrigerant Monitor Input	0 = Normal 1 = In Alarm	Refrigerant Monitor
BI-11181	34182	Comm Loss: Starter Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11182	34183	Comm Loss: Starter Fault Circuit 1	0 = Normal 1 = In Alarm	Non-comm AFD Solid State Starter
BI-11183	34184	Comm Loss: Vibration Sensor Input	0 = Normal 1 = In Alarm	Vibration Sensor
BI-11184	34185	Diagnostic: Compressor Did Not Accelerate: Shutdown Compressor 1A	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11185	34186	Diagnostic: Cond Saturated Refrigerant Temp Sensor	0 = Normal 1 = In Alarm	Standard
BI-11186	34187	Diagnostic: Condenser Diff Water Pressure Xdcr	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Differential Pressure
BI-11187	34188	Diagnostic: Condenser Entering Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensor
BI-11188	34189	Diagnostic: Condenser Entering Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
BI-11189	34190	Diagnostic: Condenser High Pressure Cutout	0 = Normal 1 = In Alarm	Standard
BI-11190	34191	Diagnostic: Condenser Leaving Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensor
BI-11191	34192	Diagnostic: Condenser Leaving Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
BI-11192	34193	Diagnostic: Condenser Liquid Level Sensor	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11193	34194	Diagnostic: Condenser Refrigerant Pressure Xdcr	0 = Normal 1 = In Alarm	Condenser Refrigerant Pressure Sensor
BI-11195	34196	Diagnostic: Condenser Water Flow Lost	0 = Normal 1 = In Alarm	Standard
BI-11196	34197	Diagnostic: Condenser Water Flow Overdue	0 = Normal 1 = In Alarm	Standard
BI-11197	34198	Diagnostic: Cprsr Did Not Accelerate: Transition	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11198	34199	Diagnostic: Cprsr Discharge Refrigerant Temp Sensor	0 = Normal 1 = In Alarm	Compressor Discharge Temp Sensor
BI-11199	34200	Diagnostic: Differential Lube Pressure Overdue Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11200	34201	Diagnostic: Differential Oil Pressure Overdue Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M CVGF
BI-11202	34203	Diagnostic: Emergency Stop	0 = Normal 1 = In Alarm	Standard
BI-11203	34204	Diagnostic: Evap Rfgt Temp Deviate From Selection	0 = Normal 1 = In Alarm	Standard

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BI-11204	34205	Diagnostic: Evap Saturated Refrigerant Temp Sensor	0 = Normal 1 = In Alarm	Standard
BI-11205	34206	Diagnostic: Evaporator Diff Water Pressure Xdcr	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Differential Pressure
BI-11206	34207	Diagnostic: Evaporator Entering Water Pressure	0 = Normal 1 = In Alarm	Evap Flow Measurement - Dual Pressure Sensor
BI-11207	34208	Diagnostic: Evaporator Entering Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
BI-11208	34209	Diagnostic: Evaporator Leaving Water Pressure	0 = Normal 1 = In Alarm	Evap Flow Measurement - Dual Pressure Sensor
BI-11209	34210	Diagnostic: Evaporator Leaving Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
BI-11210	34211	Diagnostic: Evaporator Water Flow Lost	0 = Normal 1 = In Alarm	Standard
BI-11211	34212	Diagnostic: Evaporator Water Flow Overdue	0 = Normal 1 = In Alarm	Standard
BI-11212	34213	Diagnostic: Excessive Loss of Communication	0 = Normal 1 = In Alarm	Standard
BI-11213	34215	Diagnostic: Extended Compressor Surge Compressor 1A	0 = Normal 1 = In Alarm	Standard
BI-11214	34216	Diagnostic: External Base Loading Setpoint	0 = Normal 1 = In Alarm	Base Loading
BI-11215	34217	Diagnostic: External Chilled/Hot Water Setpoint	0 = Normal 1 = In Alarm	External Chilled Water Setpoint
BI-11216	34218	Diagnostic: External Demand Limit Setpoint	0 = Normal 1 = In Alarm	External Demand Limit Setpoint
BI-11217	34219	Diagnostic: Free Cooling Actrs Not Open During FC	0 = Normal 1 = In Alarm	Free Cooling
BI-11218	34220	Diagnostic: Free Cooling Actuators Not Closed	0 = Normal 1 = In Alarm	Free Cooling
BI-11219	34221	Diagnostic: Free Cooling Actuators Not Open	0 = Normal 1 = In Alarm	Free Cooling
BI-11220	34222	Diagnostic: Free Cooling Actuators Unexpectedly Open	0 = Normal 1 = In Alarm	Free Cooling
BI-11221	34223	Diagnostic: Generator Fault Relay Open	0 = Normal 1 = In Alarm	Engine Generator Power Source
BI-11222	34224	Diagnostic: Generator Ready Signal Overdue	0 = Normal 1 = In Alarm	Engine Generator Power Source
BI-11223	34225	Diagnostic: Heat Recovery Diff Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery Water Flow Measurement - Differential Pressure
BI-11224	34226	Diagnostic: Heat Recovery Entering Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery Water Flow Measurement - Dual Pressure Sensor
BI-11225	34227	Diagnostic: Heat Recovery Entering Water Temp Sensor	0 = Normal 1 = In Alarm	Heat Recovery
BI-11226	34228	Diagnostic: Heat Recovery Leaving Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery Water Flow Measurement - Dual Pressure Sensor
BI-11227	34229	Diagnostic: Heat Recovery Leaving Water Temp Sensor	0 = Normal 1 = In Alarm	Heat Recovery

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BI-11228	34230	Diagnostic: High Condenser Pressure	0 = Normal 1 = In Alarm	Standard
BI-11229	34231	Diagnostic: High Cprsr Rfgt Discharge Temperature	0 = Normal 1 = In Alarm	Compressor Discharge Temp Sensor
BI-11230	34232	Diagnostic: High Differential Refrigerant Pressure	0 = Normal 1 = In Alarm	CVHE,F,G,H, L,M,S
BI-11231	34233	Diagnostic: High Evaporator Refrigerant Temperature	0 = Normal 1 = In Alarm	Standard
BI-11232	34234	Diagnostic: High Evaporator Water Temperature	0 = Normal 1 = In Alarm	Standard
BI-11233	34235	Diagnostic: High Inboard Bearing Temperature Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensor
BI-11234	34236	Diagnostic: High Motor Coolant Temperature Circuit 1	0 = Normal 1 = In Alarm	MTC Temperature Sensor
BI-11235	34237	Diagnostic: High Motor Winding Temperature 1 Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,S,M,L CVGF
BI-11236	34238	Diagnostic: High Motor Winding Temperature 2 Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,S,M,L CVGF
BI-11237	34239	Diagnostic: High Motor Winding Temperature 3 Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L CVGF
BI-11238	34240	Diagnostic: High Oil Temperature Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11239	34241	Diagnostic: High Outboard Bearing Pad Temperature 1 Circuit 1	0 = Normal 1 = In Alarm	CVHH
BI-11240	34242	Diagnostic: High Outboard Bearing Pad Temperature 2 Circuit 1	0 = Normal 1 = In Alarm	CVHH
BI-11241	34243	Diagnostic: High Outboard Bearing Pad Temperature 3 Circuit 1	0 = Normal 1 = In Alarm	CVHH
BI-11242	34244	Diagnostic: High Outboard Bearing Temp Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensor
BI-11243	34245	Diagnostic: High Vacuum Lockout Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11244	34246	Diagnostic: Hot Gas Bypass Valve Closure Overdue	0 = Normal 1 = In Alarm	Hot Gas Bypass
BI-11245	34247	Diagnostic: Hot Gas Bypass Valve Opening Overdue	0 = Normal 1 = In Alarm	Hot Gas Bypass
BI-11246	34248	Diagnostic: Hot Gas Bypass Valve Unexpectedly Open	0 = Normal 1 = In Alarm	Hot Gas Bypass
BI-11247	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)
BI-11248	34250	Diagnostic: Inboard Bearing Temp Sensor Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensor
BI-11249	34251	Diagnostic: Inverted Condenser Approach Temperature	0 = Normal 1 = In Alarm	Standard
BI-11250	34252	Diagnostic: Inverted Condenser Water Temperature	0 = Normal 1 = In Alarm	Standard
BI-11251	34253	Diagnostic: Inverted Evaporator Approach Temperature	0 = Normal 1 = In Alarm	Standard

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BI-11252	34254	Diagnostic: Inverted Evaporator Water Temperature	0 = Normal 1 = In Alarm	Standard
BI-11253	34255	Diagnostic: Loss of Economizer Bypass Valve Control	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11254	34256	Diagnostic: Low Bearing Lube Flow First Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11255	34257	Diagnostic: Low Bearing Lube Flow Second Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11256	34258	Diagnostic: Low Brg Lube Flow Lockout First Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11257	34259	Diagnostic: Low Brg Lube Flow Lockout Second Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11258	34260	Diagnostic: Low Differential Lube Pressure Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11259	34261	Diagnostic: Low Differential Oil Pressure Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M CVGF
BI-11260	34262	Diagnostic: Low Evap Leaving Water Temp: Unit Off	0 = Normal 1 = In Alarm	Standard
BI-11261	34263	Diagnostic: Low Evap Leaving Water Temp: Unit On	0 = Normal 1 = In Alarm	Standard
BI-11262	34264	Diagnostic: Low Evaporator Refrigerant Temperature	0 = Normal 1 = In Alarm	Standard
BI-11263	34265	Diagnostic: Low Evaporator Water Flow	0 = Normal 1 = In Alarm	Water Flow Sensing
BI-11264	34266	Diagnostic: Low Oil Temperature Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L CVGF
BI-11265	34267	Diagnostic: Lube Pressure Sensor Calibration Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11266	34268	Diagnostic: Lube Pump Disch Pressure Xdcr Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11267	34269	Diagnostic: Lube Pump Override: Low Diff Press Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11268	34270	Diagnostic: Lube Pump Override: Low Flow 1st Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11269	34271	Diagnostic: Lube Pump Override: Low Flow 2nd Stage Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11270	34272	Diagnostic: Lube Pump Suction Pressure Xdcr Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11271	34273	Diagnostic: Momentary Power Loss	0 = Normal 1 = In Alarm	Momentary Power Loss
BI-11272	34274	Diagnostic: Motor Coolant Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	MTC Temperature Sensor
BI-11273	34275	Diagnostic: Motor Current Overload Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11274	34276	Diagnostic: Motor Temperature Cutout Tripped Circuit 1	0 = Normal 1 = In Alarm	MTC Switch

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BI-11275	34277	Diagnostic: Motor Winding Temperature 1 Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11276	34278	Diagnostic: Motor Winding Temperature 2 Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11277	34279	Diagnostic: Motor Winding Temperature 3 Sensor Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H, L CVGF
BI-11278	34280	Diagnostic: MP: Invalid Configuration	0 = Normal 1 = In Alarm	Standard
BI-11279	34281	Diagnostic: MP: Reset Has Occurred	0 = Normal 1 = In Alarm	Standard
BI-11280	34282	Diagnostic: Oil Pressure Sensor Calibration Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M
BI-11281	34283	Diagnostic: Oil Pump Discharge Pressure Transducer Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M
BI-11282	34284	Diagnostic: Oil Tank Pressure Transducer Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M
BI-11283	34285	Diagnostic: Oil Tank Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M CVGF
BI-11284	34286	Diagnostic: Outboard Bearing Pad Temp 1 Sensor Circuit 1	0 = Normal 1 = In Alarm	CVHH
BI-11285	34287	Diagnostic: Outboard Bearing Pad Temp 2 Sensor Circuit 1	0 = Normal 1 = In Alarm	CVHH
BI-11286	34288	Diagnostic: Outboard Bearing Pad Temp 3 Sensor Circuit 1	0 = Normal 1 = In Alarm	CVHH
BI-11287	34289	Diagnostic: Outboard Bearing Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensor
BI-11288	34290	Diagnostic: Outdoor Air Temperature Sensor	0 = Normal 1 = In Alarm	Outdoor Air Temp Sensor
BI-11289	34291	Diagnostic: Over Voltage Circuit 1	0 = Normal 1 = In Alarm	Line Voltage Sensing
BI-11290	34292	Diagnostic: Phase Loss Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11291	34293	Diagnostic: Phase Reversal Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11292	34294	Diagnostic: Power Loss Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11293	34295	Diagnostic: Purge Carbon Regen Temp Limit Exceeded Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank
BI-11294	34296	Diagnostic: Purge Carbon Regen Temp Not Satisfied Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank
BI-11295	34297	Diagnostic: Purge Carbon Regen Temperature Too Low Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank
BI-11296	34298	Diagnostic: Purge Carbon Tank Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank



BACnet Object Identifier	Modbus Register	Diagnostic Name	Object States	Configuration Dependency
BI-11297	34299	Diagnostic: Purge Cprsr Suction Rfgt Temp Sensor Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11298	34300	Diagnostic: Purge Daily Pumpout Limit Exceeded Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11299	34301	Diagnostic: Purge Liquid Level Too High Continuously Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11300	34302	Diagnostic: Purge Liquid Level Too High Warning Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11301	34303	Diagnostic: Purge Regen Cooldown Temp Too High Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon Tank
BI-11302	34304	Diagnostic: Refrigerant Monitor Input	0 = Normal 1 = In Alarm	Refrigerant Monitor
BI-11303	34305	Diagnostic: Restart Inhibit	0 = Normal 1 = In Alarm	Standard
BI-11304	34306	Diagnostic: Severe Current Unbalance Circuit 1	0 = Normal 1 = In Alarm	Line Voltage Sensing
BI-11305	34307	Diagnostic: Software Error 1001: Call Trane Service	0 = Normal 1 = In Alarm	Standard
BI-11306	34308	Diagnostic: Software Error 1004: Call Trane Service	0 = Normal 1 = In Alarm	Standard
BI-11307	34309	Diagnostic: Starter Comm Loss: Main Processor Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11308	34310	Diagnostic: Starter Contactor Interrupt Failure Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11309	34311	Diagnostic: Starter Did Not Fully Accelerate Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11310	34312	Diagnostic: Starter Did Not Transition Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11311	34313	Diagnostic: Starter Dry Run Test Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11312	34314	Diagnostic: Starter Failed to Arm/Start Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11313	34315	Diagnostic: Starter Fault Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11314	34316	Diagnostic: Starter Fault Type I Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11315	34317	Diagnostic: Starter Fault Type II Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs

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BACnet Object Identifier	Modbus Register	Diagnostic Name	Object States	Configuration Dependency
BI-11316	34318	Diagnostic: Starter Fault Type III Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11317	34319	Diagnostic: Starter Module Memory Error Type 1 Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11318	34320	Diagnostic: Starter Module Memory Error Type 2 Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11319	34321	Diagnostic: Transition Complete Input Opened Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11320	34322	Diagnostic: Transition Complete Input Shorted Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11321	34323	Diagnostic: Under Voltage Circuit 1	0 = Normal 1 = In Alarm	Line Voltage Sensing
BI-11322	34324	Diagnostic: Unexpected Differential Lube Pressure Circuit 1	0 = Normal 1 = In Alarm	CVHS
BI-11323	34325	Diagnostic: Unexpected Differential Oil Pressure Circuit 1	0 = Normal 1 = In Alarm	CVHE,F,G,H,L,M CVGF
BI-11324	34326	Diagnostic: Unexpected Starter Shutdown Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Non-comm AFDs
BI-11325	34327	Diagnostic: Vibration Sensor Input	0 = Normal 1 = In Alarm	Vibration Sensor
BI-11326	34328	Comm Loss: Evap Refrigerant Pressure Circuit 1	0 = Normal 1 = In Alarm	Evap Pressure Sensor
BI-11327	34329	Diagnostic: Evaporator Refrigerant Pressure Xdcr Circuit 1	0 = Normal 1 = In Alarm	Evap Pressure Sensor
BI-11328	34330	Diagnostic: Inverted Heat Recovery Approach Temperature Circuit 1	0 = Normal 1 = In Alarm	Heat Recovery
BI-11329	34331	Comm Loss: Sporlan Automatic Econ Valve Circuit 1	0 = Normal 1 = In Alarm	Sporlan Automatic Valve
BI-11330	34332	Comm Loss: Sporlan Automatic Cond Valve Circuit 1	0 = Normal 1 = In Alarm	Sporlan Automatic Valve
BI-11331	34333	Comm Loss: Trane IGV Cond Valve Circuit 1	0 = Normal 1 = In Alarm	Variable Orifice
BI-11332	34334	Comm Loss: Trane IGV Econ Valve Circuit 1	0 = Normal 1 = In Alarm	Variable Orifice
BI-11333	34335	Diagnostic: External Hot Water Setpoint	0 = Normal 1 = In Alarm	External Hot Water Setpoint
BI-11334	34336	Diagnostic: External Chilled Water Setpoint	0 = Normal 1 = In Alarm	External Chilled Water Setpoint
BI-11335	34337	Comm Loss: External Hot Wtr Setpoint	0 = Normal 1 = In Alarm	External Hot Water Setpoint
BI-11336	34338	Comm Loss: External Chilled Wtr Setpoint	0 = Normal 1 = In Alarm	External Chilled Water Setpoint

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BI-11337	34339	Comm Loss: Motor Cooling Vent Valve Circuit 1	0 = Normal 1 = In Alarm	Booster Heat Pump
BI-11338	34340	Diagnostic: Motor Cooling Vent Valve Position Error Circuit 1	0 = Normal 1 = In Alarm	Booster Heat Pump
BI-11339	34341	Comm Loss: Oil Heat Exchanger Vent Valve Circuit 1	0 = Normal 1 = In Alarm	Booster Heat Pump
BI-11340	34342	Diagnostic: Oil Heat Exchanger Vent Valve Position Error Circuit 1	0 = Normal 1 = In Alarm	Booster Heat Pump
BI-11341	34343	Diagnostic: High Evaporator Refrigerant Temperature	0 = Normal 1 = In Alarm	Booster Heat Pump
BI-11342	34344	Diagnostic: Low Condenser Water Flow	0 = Normal 1 = In Alarm	Hot Water Control
BI-11343	34345	Diagnostic: Low Heat Recovery Water Flow	0 = Normal 1 = In Alarm	Heat Recovery

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BV-10100	43011	Base Loading Request	0 = Off 1 = On	Base Loading
BV-10101	43012	Reset Diagnostic	0 = Normal 1 = Reset	Standard
BV-10102	43013	Evaporator Water Pump Request BAS	0 = Auto 1 = On	Standard
BV-10103	43014	Condenser Water Pump Request BAS	0 = Auto 1 = On	Standard
BV-10104	43015	Chiller Auto Stop Command BAS	0 = Stop 1 = Auto	Standard
BV-10105	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)

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MI-10100	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
MI-10101	32012	Operating Mode	1 = Cool 2 = Heat 3 = Ice Making 4 = Free Cooling	Standard
MI-10102	32013	Chiller Setpoint Source	1 = BAS 2 = External 3 = Front Panel	Standard
MI-10103	32014	Model Information [GEN2]	1 = CVHF 2 = CVGF 3 = CVHS 11 = CDHF 12 = CVR 13 = CVHH 14 = CDHH 20 = CVHM 38 = CVHE 39 = CVHG 40 = CVHL 43 = CDHG	Standard
MI-10104	32015	Cooling Type	1 = Water Cooled	Standard
MI-10105	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
MI-10106	32017	Manufacturing Location	1 = Field Applied 2 = La Crosse 15 = Taicang	Standard

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BACnet Object Identifier	Modbus Register	Object Name	Property Value	Configuration Dependency
MV-10100	42011	Chiller Mode Command BAS	1 = Cool 2 = Heat 3 = Ice Making 4 = Free Cooling	Standard

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AI-10100	30011	Active Chilled Water Setpoint	Temperature	Standard
AI-10101	30013	Chilled Water Setpoint Status	Temperature	Standard
AI-10102	30015	Active Base Loading Setpoint	Percentage	Base Loading
AI-10103	30017	Hot Water Setpoint Active	Temperature	Hot Water Control
AI-10104	30019	Calculated Chiller Capacity	Power, Cooling	Evap Water Flow Sensing
AI-10105	30021	Active Cool/Heat Setpoint Temperature	Temperature	Standard
AI-10106	30023	Evaporator Leaving Water Temperature	Temperature	Standard
AI-10107	30025	Evaporator Entering Water Temperature	Temperature	Standard
AI-10108	30027	Condenser Entering Water Temperature	Temperature	Standard
AI-10109	30029	Condenser Leaving Water Temperature	Temperature	Standard
AI-10110	30031	Evaporator Water Flow Rate	Flow, Water	Evap Water Flow Sensing
AI-10111	30033	Evaporator Differential Water Pressure	Differential Pressure	Evap Water Flow Differential Pressure or Dual Pressure Sensors
AI-10112	30035	Condenser Water Flow Rate	Flow, Water	Cond Water Flow Sensing
AI-10113	30037	Condenser Differential Water Pressure	Differential Pressure	Cond Water Flow Differential Pressure or Dual Pressure Sensors
AI-10114	30039	AFD Last Diagnostic Code Ckt1	None	Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Comm AFD (PF6000)
AI-10115	30041	Unit Source ID (Last Diagnostic Code)	None	Standard
AI-10116	30043	Refrigerant Monitor	Concentration	Refrigerant Monitor
AI-10117	30045	Evaporator Refrigerant Pressure Circuit 1	Pressure	Standard
AI-10118	30047	Condenser Refrigerant Pressure Circuit 1	Pressure	Standard
AI-10119	30049	Differential Refrigerant Pressure Circuit 1	Differential Pressure	Standard
AI-10120	30051	Low Side Oil Pressure - Compressor 1A	Pressure	Standard
AI-10121	30053	High Side Oil Pressure - Compressor 1A	Pressure	Standard
AI-10122	30055	Oil Differential Pressure Circuit 1	Differential Pressure	Standard
AI-10123	30057	Oil Temperature - Compressor 1A	Temperature	Standard
AI-10124	30059	Evaporator Saturated Refrigerant Temperature Circuit 1	Temperature	Standard
AI-10125	30061	Condenser Saturated Refrigerant Temperature Circuit 1	Temperature	Standard
AI-10126	30063	Refrigerant Discharge Temperature - Compressor 1A	Temperature	Compressor Refrigerant Discharge Temperature
AI-10127	30065	Inlet Guide Vane 1 Percent Open Circuit 1	Percentage	Standard
AI-10128	30067	Inlet Guide Vane 2 Percent Open Circuit 1	Percentage	Dual IGv
AI-10129	30069	Purge Carbon Tank Temperature Circuit 1	Temperature	Purge w/Carbon Tank
AI-10130	30071	Purge Liquid Temperature Circuit 1	Temperature	Purge

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BACnet Object Identifier	Modbus Register	Object Name	Units	Configuration Dependency
AI-10131	30073	Purge Refrigerant Compressor Suction Temperature Circuit 1	Temperature	Purge
AI-10132	30075	Time Until Next Purge Run Circuit 1 (in seconds)	None	Purge
AI-10133	30077	Purge Pumpout Chiller On % (7 Days) Circuit 1	Percentage	Purge
AI-10134	30079	Purge Pumpout Chiller Off % (7 Days) Circuit 1	Percentage	Purge
AI-10135	30081	Purge 24 Hour Pumpout Circuit 1 (in seconds)	None	Purge
AI-10136	30083	Purge Pumpout - Life Circuit 1 (in seconds)	None	Purge
AI-10137	30085	Refrigeration - Life Circuit 1 (in seconds)	None	Purge
AI-10138	30087	Starts - Compressor 1A	None	Standard
AI-10139	30089	Run Time - Compressor 1A (in seconds)	None	Standard
AI-10140	30091	Phase AB Voltage - Compressor 1A	Voltage	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Non-Communicating AFD
AI-10141	30093	Phase BC Voltage - Compressor 1A	Voltage	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Non-Communicating AFD
AI-10142	30095	Phase CA Voltage - Compressor 1A	Voltage	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Non-Communicating AFD
AI-10143	30097	Starter Average Phase Volt Circuit 1	Voltage	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Non-Communicating AFD
AI-10144	30099	Line 1 Current - Compressor 1A	Current	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Non-Communicating AFD TR200 Modbus AFD
AI-10145	30101	Line 2 Current - Compressor 1A	Current	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Non-Communicating AFD TR200 Modbus AFD
AI-10146	30103	Line 3 Current - Compressor 1A	Current	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Non-Communicating AFD TR200 Modbus AFD

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AI-10147	30105	Average Line Current Circuit 1	Current	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Comm AFD (PF6000) Remote Mount Non-Communicating AFD TR200 Modbus AFD
AI-10148	30107	Line 1 Current RLA - Compressor 1A	Percentage	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Non-Communicating AFD TR200 Modbus AFD
AI-10149	30109	Line 2 Current RLA - Compressor 1A	Percentage	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Non-Communicating AFD TR200 Modbus AFD
AI-10150	30111	Line 3 Current RLA - Compressor 1A	Percentage	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Non-Communicating AFD TR200 Modbus AFD
AI-10151	30113	Actual Running Capacity	Percentage	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Energy Meter
AI-10153	30117	Starter Load Power Factor - Compressor 1A	None	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Comm AFD (PF6000) Remote Mount Non-Communicating AFD
AI-10154	30119	Inboard Bearing Temperature Circuit 1	Temperature	Bearing Temperature Sensor
AI-10155	30121	Outboard Bearing Temperature Circuit 1	Temperature	Bearing Temperature Sensor
AI-10156	30123	Motor Winding Temperature 1 Circuit 1	Temperature	Standard
AI-10157	30125	Motor Winding Temperature 2 Circuit 1	Temperature	Standard
AI-10158	30127	Motor Winding Temperature 3 Circuit 1	Temperature	Standard
AI-10159	30129	AFD Frequency Circuit 1	None	Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Comm AFD (PF6000) TR200 Modbus AFD
AI-10160	30131	AFD Transistor Temperature Circuit 1	Temperature	Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000)
AI-10161	30133	Drive Average Line Current Circuit 1	Current	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF7000) w/Line Side Items Remote Mount Comm AFD (PF6000)

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AI-10162	30135	Drive Line Frequency Circuit 1	None	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF7000) w/Line Side Items Remote Mount Comm AFD (PF6000)
AI-10163	30137	Drive Motor Voltage Circuit 1	Voltage	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF7000) w/Line Side Items Remote Mount Comm AFD (PF6000)
AI-10164	30139	Drive Inverter Base Temperature Circuit 1	Temperature	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF7000) w/Line Side Items
AI-10165	30141	Drive Rectifier Base Temperature Circuit 1	Temperature	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF7000) w/Line Side Items
AI-10166	30143	Drive Output Power Circuit 1	Power, Electrical	Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Comm AFD (PF6000) TR200 Modbus AFD
AI-10167	30145	Frequency Command Circuit 1	None	Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) TR200 Modbus AFD
AI-10168	30147	Outboard Bearing Pad Temperature #1 Ckt1	Temperature	CDHH
AI-10169	30149	Outboard Bearing Pad Temperature #2 Ckt1	Temperature	CDHH
AI-10170	30151	Outboard Bearing Pad Temperature #3 Ckt1	Temperature	CDHH
AI-10171	30153	Restart Inhibit Time Remaining Circuit 1	None	Standard
AI-10172	30155	Chiller Design Capacity	Power, Cooling	Standard
AI-10173	30157	Entering Condenser Water Pressure	Pressure	Condenser Water Flow Differential Pressure Sensors
AI-10174	30159	Entering Evaporator Water Pressure	Pressure	Evaporator Water Flow Differential Pressure Sensors
AI-10175	30161	Leaving Condenser Water Pressure	Pressure	Condenser Water Flow Differential Pressure Sensors
AI-10176	30163	Leaving Evaporator Water Pressure	Pressure	Evaporator Water Flow Differential Pressure Sensors
AI-10177	30165	Condenser Approach Temperature Circuit 1	Temperature, Delta	Standard
AI-10178	30167	Evaporator Approach Temperature Circuit 1	Temperature, Delta	Standard
AI-10179	30169	Drive DC Bus Voltage Circuit 1	Voltage	Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) TR200 Modbus AFD
AI-10180	30171	Drive Motor Average Current RLA Circuit 1	Percentage	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Non-Communicating AFD TR200 Modbus AFD
AI-10182	30175	Active Demand Limit Setpoint	Percentage	Ice Building
AI-10183	30177	Active Demand Limit Setpoint	Percentage	Not Ice Building
AI-10184	30179	Demand Limit Setpoint Status	Percentage	Ice Building
AI-10185	30181	Number of Circuits	None	Standard

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AI-10186	30183	Number of Compressors Circuit 1	None	Standard
AI-10187	30185	Number of Compressors Circuit 2	None	Standard
AI-10188	30187	Low Side Oil Pressure - Compressor 2A	Pressure	Standard
AI-10189	30189	High Side Oil Pressure - Compressor 2A	Pressure	Standard
AI-10190	30191	Oil Differential Pressure Circuit 2	Differential Pressure	Standard
AI-10191	30193	Oil Temperature - Compressor 2A	Temperature	Standard
AI-10192	30195	Evaporator Saturated Refrigerant Temperature Circuit 2	Temperature	Standard
AI-10193	30197	Condenser Saturated Refrigerant Temperature Circuit 2	Temperature	Standard
AI-10194	30199	Refrigerant Discharge Temperature - Compressor 2A	Temperature	Compressor Refrigerant Discharge Temperature
AI-10195	30201	Inlet Guide Vane 1 Percent Open Circuit 2	Percentage	Standard
AI-10196	30203	Inlet Guide Vane 2 Percent Open Circuit 2	Percentage	IGV2
AI-10197	30205	Purge Carbon Tank Temperature Circuit 2	Temperature	Purge w/Carbon Tank
AI-10198	30207	Purge Liquid Temperature Circuit 2	Temperature	Purge
AI-10199	30209	Purge Refrigerant Compressor Suction Temperature Circuit 2	Temperature	Purge
AI-10200	30211	Time Until Next Purge Run Circuit 2 (in seconds)	None	Purge
AI-10201	30213	Refrigeration - Life Circuit 2 (in seconds)	None	Purge
AI-10202	30215	Starts - Compressor 2A	None	Standard
AI-10203	30217	Run Time - Compressor 2A (in seconds)	None	Standard
AI-10204	30219	Starter Average Phase Volt Circuit 2	Voltage	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Non-Communicating AFD
AI-10205	30221	Line 1 Current - Compressor 2A	Current	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Non-Communicating AFD TR200 Modbus AFD
AI-10206	30223	Line 2 Current - Compressor 2A	Current	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Non-Communicating AFD TR200 Modbus AFD
AI-10207	30225	Line 3 Current - Compressor 2A	Current	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Non-Communicating AFD TR200 Modbus AFD

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AI-10208	30227	Average Line Current Circuit 2	Current	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Comm AFD (PF6000) Remote Mount Non-Communicating AFD TR200 Modbus AFD
AI-10209	30229	Drive Average Line Current Circuit 2	Current	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF7000) w/Line Side Items Remote Mount Comm AFD (PF6000)
AI-10210	30231	Starter Load Power Factor - Compressor 2A	None	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Comm AFD (PF6000)
AI-10211	30233	Inboard Bearing Temperature Circuit 2	Temperature	Bearing Temperature Sensor
AI-10212	30235	Outboard Bearing Temperature Circuit 2	Temperature	Bearing Temperature Sensor
AI-10213	30237	Motor Winding Temperature 1 Circuit 2	Temperature	Standard
AI-10214	30239	Motor Winding Temperature 2 Circuit 2	Temperature	Standard
AI-10215	30241	Motor Winding Temperature 3 Circuit 2	Temperature	Standard
AI-10216	30243	AFD Transistor Temperature Circuit 2	Temperature	Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000)
AI-10217	30245	Heat Recovery Entering Water Temp	Temperature	Heat Recovery
AI-10218	30247	Heat Recovery Leaving Water Temp	Temperature	Heat Recovery
AI-10219	30249	Purge Pumpout Chiller On % (7 Days) Circuit 2	Percentage	Purge
AI-10220	30251	Purge Pumpout Chiller Off % (7 Days) Circuit 2	Percentage	Purge
AI-10221	30253	Purge 24 Hour Pumpout Circuit 2 (in seconds)	None	Purge
AI-10222	30255	Phase AB Voltage - Compressor 2A	Voltage	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Non-Communicating AFD
AI-10223	30257	Phase BC Voltage - Compressor 2A	Voltage	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Non-Communicating AFD
AI-10224	30259	Phase CA Voltage - Compressor 2A	Voltage	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Non-Communicating AFD
AI-10225	30261	Purge Pumpout - Life Circuit 2 (in seconds)	None	Purge

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AI-10226	30263	Drive Motor Average Current RLA Circuit 2	Percentage	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Non-Communicating AFD TR200 Modbus AFD
AI-10227	30265	Drive Inverter Base Temperature Circuit 2	Temperature	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF7000) w/Line Side Items
AI-10228	30267	Drive Rectifier Base Temperature Circuit 2	Temperature	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF7000) w/Line Side Items
AI-10229	30269	Outboard Bearing Pad Temperature #1 Ckt2	Temperature	CDHH
AI-10230	30271	Outboard Bearing Pad Temperature #2 Ckt2	Temperature	CDHH
AI-10231	30273	Outboard Bearing Pad Temperature #3 Ckt2	Temperature	CDHH
AI-10232	30275	Evaporator Refrigerant Pressure Circuit 2	Pressure	Standard
AI-10233	30277	Condenser Refrigerant Pressure Circuit 2	Pressure	Standard
AI-10234	30279	Differential Refrigerant Pressure Circuit 2	Differential Pressure	Standard
AI-10235	30281	Restart Inhibit Time Remaining Circuit 2	None	Standard
AI-10236	30283	AFD Frequency Circuit 2	None	Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Comm AFD (PF6000) TR200 Modbus AFD
AI-10237	30285	Drive Line Frequency Circuit 2	None	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF7000) w/Line Side Items Remote Mount Comm AFD (PF6000)
AI-10238	30287	Frequency Command Circuit 2	None	Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) TR200 Modbus AFD
AI-10239	30289	Drive DC Bus Voltage Circuit 2	Voltage	Unit Mount AFD (LF2) Remote Mount Comm AFD (PF6000) TR200 Modbus AFD
AI-10240	30291	Drive Output Power Circuit 2	Power, Electrical	Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Comm AFD (PF6000) TR200 Modbus AFD
AI-10241	30293	Line 1 Current RLA - Compressor 2A	Percentage	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Non-Communicating AFD TR200 Modbus AFD
AI-10242	30295	Line 2 Current RLA - Compressor 2A	Percentage	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Non-Communicating AFD TR200 Modbus AFD

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AI-10243	30297	Line 3 Current RLA - Compressor 2A	Percentage	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Non-Communicating AFD TR200 Modbus AFD
AI-10244	30299	Drive Current Line 1 Circuit 1	Current	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF7000) w/Line Side Items
AI-10245	30301	Drive Current Line 2 Circuit 1	Current	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF7000) w/Line Side Items
AI-10246	30303	Drive Current Line 3 Circuit 1	Current	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF7000) w/Line Side Items
AI-10247	30305	Drive Current Line 1 Circuit 2	Current	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF7000) w/Line Side Items
AI-10248	30307	Drive Current Line 2 Circuit 2	Current	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF7000) w/Line Side Items
AI-10249	30309	Drive Current Line 3 Circuit 2	Current	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF7000) w/Line Side Items
AI-10250	30311	Starter Input Power Consumption Ckt1	Power, Electrical	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000)
AI-10251	30313	Starter Input Power Consumption Ckt2	Power, Electrical	EM Starter Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000)
AI-10252	30315	Drive Motor Voltage Circuit 2	Voltage	Unit Mount AFD (LF2) w/Line Side Items Remote Mount Comm AFD (PF7000) w/Line Side Items Remote Mount Comm AFD (PF6000)
AI-10253	30317	Chiller Control Signal	Percentage	Standard
AI-10254	30319	Head Pressure Control Status	Percentage	Head Pressure Control
AI-10255	30321	AFD Last Diagnostic Code Ckt2	None	Unit Mount AFD (LF2) Remote Mount Comm AFD (PF7000) Remote Mount Comm AFD (PF6000)
AI-10256	30323	Voltage L1-L2 Circuit 1	Voltage	Energy Meter
AI-10257	30325	Voltage L1-L3 Circuit 1	Voltage	Energy Meter
AI-10258	30327	Voltage L2-L3 Circuit 1	Voltage	Energy Meter
AI-10259	30329	Voltage L1-L2 Circuit 2	Voltage	Energy Meter
AI-10260	30331	Voltage L1-L3 Circuit 2	Voltage	Energy Meter
AI-10261	30333	Voltage L2-L3 Circuit 2	Voltage	Energy Meter
AI-10262	30335	Average Line Voltage Circuit 1	Voltage	Energy Meter
AI-10263	30337	Average Line Voltage Circuit 2	Voltage	Energy Meter
AI-10264	30339	Line Current L1 Circuit 1	Current	Energy Meter
AI-10265	30341	Line Current L2 Circuit 1	Current	Energy Meter

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AI-10266	30343	Line Current L3 Circuit 1	Current	Energy Meter
AI-10267	30345	Line Current L1 Circuit 2	Current	Energy Meter
AI-10268	30347	Line Current L2 Circuit 2	Current	Energy Meter
AI-10269	30349	Line Current L3 Circuit 2	Current	Energy Meter
AI-10270	30351	Unit Average Line Current Circuit 1	Current	Energy Meter
AI-10271	30353	Unit Average Line Current Circuit 2	Current	Energy Meter
AI-10272	30355	Line Frequency Circuit 1	None	Energy Meter
AI-10273	30357	Line Frequency Circuit 2	None	Energy Meter
AI-10274	30359	Power Factor Circuit 1	None	Energy Meter
AI-10275	30361	Power Factor Circuit 2	None	Energy Meter
AI-10276	30363	Power Demand Circuit 1	Power, Electrical	Energy Meter
AI-10277	30365	Power Demand Circuit 2	Power, Electrical	Energy Meter
AI-10278	30367	Total Real Power	Power, Electrical	Energy Meter
AI-10279	30369	Unit Power Consumption	Power, Electrical	Energy Meter
AI-10280	30371	Energy Consumption	Energy, Electrical	Energy Meter
AI-10281	30373	Energy Consumption Lifetime	Energy, Electrical	Energy Meter
AI-10282	30375	Condenser Approach Temperature Circuit 2	Temperature, Delta	Standard
AI-10283	30377	Evaporator Approach Temperature Circuit 2	Temperature, Delta	Standard
AI-10284	30379	Drive Input Voltage Calculated 1A	Voltage	TR200 Modbus AFD
AI-10285	30381	Drive Input Voltage Calculated 2A	Voltage	TR200 Modbus AFD
AI-10286	30383	Drive Heatsink Temperature Compressor 1A	Temperature	TR200 Modbus AFD
AI-10287	30385	Drive Heatsink Temperature Compressor 2A	Temperature	TR200 Modbus AFD
AI-10288	30387	Outdoor Air Temperature Local	Temperature	Outdoor Air Temperature
AI-10289	30389	Heat Recovery Differential Water Pressure	Pressure	Heat Recovery Water Flow Differential Pressure or Dual Pressure Sensors
AI-10290	30391	Heat Recovery Water Flow Rate	Flow, Water	Heat Recovery Water Flow Sensing
AI-10291	30393	Heat Recovery Calculated Capacity	Power, Heating	Heat Recovery Water Flow Sensing
AI-10292	30395	Heat Recovery Entering Water Pressure	Pressure	Heat Recovery Water Flow Dual Pressure Sensors
AI-10293	30397	Heat Recovery Leaving Water Pressure	Pressure	Heat Recovery Water Flow Dual Pressure Sensors
AI-10294	30399	Heat Recovery Approach Temperature Circuit 1	Temperature, Delta	Heat Recovery
AI-10295	30401	Heat Recovery Approach Temperature Circuit 2	Temperature, Delta	Heat Recovery
AI-10296	30403	High Side Oil Gauge Pressure - Compressor 1A	Pressure	Standard
AI-10297	30405	Low Side Oil Gauge Pressure - Compressor 1A	Pressure	Standard
AI-10298	30407	High Side Oil Gauge Pressure - Compressor 2A	Pressure	Standard

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AI-10299	30409	Low Side Oil Gauge Pressure - Compressor 2A	Pressure	Standard
AI-10300	30411	Condenser Refrigerant Gauge Pressure Circuit 1	Pressure	Standard
AI-10301	30413	Condenser Refrigerant Gauge Pressure Circuit 2	Pressure	Standard
AI-10302	30415	Entering Condenser Water Gauge Pressure	Pressure	Cond Water Flow Differential Dual Pressure Sensors
AI-10303	30417	Entering Evaporator Water Gauge Pressure	Pressure	Evap Water Flow Differential Dual Pressure Sensors
AI-10304	30419	Evaporator Refrigerant Gauge Pressure Circuit 1	Pressure	Standard
AI-10305	30421	Evaporator Refrigerant Gauge Pressure Circuit 2	Pressure	Standard
AI-10306	30423	Heat Recovery Entering Water Gauge Pressure	Pressure	Heat Recovery Water Flow Dual Pressure Sensors
AI-10307	30425	Heat Recovery Leaving Water Gauge Pressure	Pressure	Heat Recovery Water Flow Dual Pressure Sensors
AI-10308	30427	Leaving Condenser Water Gauge Pressure	Pressure	Cond Water Flow Differential Dual Pressure Sensors
AI-10309	30429	Leaving Evaporator Water Gauge Pressure	Pressure	Evap Water Flow Differential Dual Pressure Sensors
AI-10310	30431	Compressor Discharge Superheat Circuit 1	Temperature, Delta	Compressor Refrigerant Discharge Temperature
AI-10311	30433	Compressor Discharge Superheat Circuit 2	Temperature, Delta	Compressor Refrigerant Discharge Temperature

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AV-10100	40011	Chilled Water Setpoint	Temperature	Standard
AV-10101	40013	Demand Limit Setpoint	Percent	Standard
AV-10102	40015	Hot Water Setpoint	Temperature	Hot Water Control
AV-10103	40017	Base Loading Setpoint	Percent	Base Loading



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BI-10101	33011	Manual Override Exists	0 = Off 1 = On	Standard
BI-10102	33012	Base Loading Request Active	0 = Inactive 1 = Active	Base Loading
BI-10103	33013	Run Enabled	0 = Run Not Enabled 1 = Run Enabled	Standard
BI-10104	33014	Local Setpoint Control	0 = Remote Control 1 = Local Control	Standard
BI-10105	33015	Maximum Capacity	0 = Off 1 = On	Standard
BI-10106	33016	Capacity Limited	0 = Not Limited 1 = Limited	Standard
BI-10107	33017	Head Relief Request	0 = Off 1 = On	Standard
BI-10108	33018	Purge Compressor Relay Circuit 1	0 = Off 1 = On	Purge
BI-10109	33019	Pump Out Relay Circuit 1	0 = Off 1 = On	Purge
BI-10110	33020	Purge Regenerating Valve Solenoid Circuit 1	0 = Off 1 = On	Purge w/Carbon Tank
BI-10111	33021	Chiller Running State	0 = Off 1 = On	Standard
BI-10112	33022	Evaporator Water Pump Request	0 = Off 1 = On	Standard
BI-10113	33023	Evaporator Water Flow Status	0 = No Flow 1 = Flow	Standard
BI-10114	33024	Condenser Water Pump Request	0 = Off 1 = On	Standard
BI-10115	33025	Condenser Water Flow Status	0 = No Flow 1 = Flow	Standard
BI-10116	33026	Diagnostic Present	0 = Normal 1 = In Alarm	Standard
BI-10117	33027	Diagnostic Shutdown Present	0 = Normal 1 = In Alarm	Standard
BI-10118	33028	Diagnostic: Manual Reset Required	0 = Normal 1 = In Alarm	Standard
BI-10119	33029	Diagnostic: Local Manual Reset Required	0 = Normal 1 = In Alarm	Standard
BI-10120	33030	Diagnostic Present: Information	0 = Normal 1 = In Alarm	Standard
BI-10121	33031	Diagnostic Present: Advisory	0 = Normal 1 = In Alarm	Standard
BI-10122	33032	Diagnostic Present: Critical	0 = Normal 1 = In Alarm	Standard
BI-10123	33033	Diagnostic Present: Service Required	0 = Normal 1 = In Alarm	Standard
BI-10124	33034	Compressor 1A Status	0 = Off 1 = Running	Standard

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BACnet Object Identifier	Modbus Register	Object Name	Object States	Configuration Dependency
BI-10125	33035	Front Panel Auto Stop	0 = Stop 1 = Auto	Standard
BI-10126	33036	External Auto Stop Input Status	0 = Stop 1 = Auto	Standard
BI-10127	33037	Purge Compressor Relay Circuit 2	0 = Off 1 = On	Purge
BI-10128	33038	Purge Regenerating Valve Solenoid Circuit 2	0 = Off 1 = On	Purge w/Carbon Tank
BI-10130	33039	Pump Out Relay Circuit 2	0 = Off 1 = On	Purge
BI-10131	33040	Compressor 2A Status	0 = Off 1 = Running	Standard
BI-10132	33041	Emergency Stop	0 = Auto 1 = Emergency Stop - Manual Reset Required	Standard
BI-10133	33042	Circuit 1 Cooling Available	0 = No 1 = Yes	Standard
BI-10134	33043	Circuit 2 Cooling Available	0 = No 1 = Yes	Standard
BI-10135	33044	Circuit 1 Lockout Front Panel	0 = Normal 1 = Locked Out	Standard
BI-10136	33045	Circuit 2 Lockout Front Panel	0 = Normal 1 = Locked Out	Standard
BI-10137	33046	Circuit 1 Lockout External	0 = Normal 1 = Locked Out	Standard
BI-10138	33047	Circuit 2 Lockout External	0 = Normal 1 = Locked Out	Standard
BI-10139	33048	Circuit 1 Lockout Active	0 = Normal 1 = Locked Out	Standard
BI-10140	33049	Circuit 2 Lockout Active	0 = Normal 1 = Locked Out	Standard
BI-10141	33050	Diagnostic Shutdown Present: AFD/Starter Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-10142	33051	Diagnostic Shutdown Present: AFD/Starter Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-10143	33052	Heat Recovery Water Flow Status	0 = No Flow 1 = Flow	Heat Recovery



BACnet Object Identifier	Modbus Register	Object Name	Object States	Configuration Dependency
BI-11000	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)
BI-11001	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)
BI-11002	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)
BI-11003	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)
BI-11004	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)
BI-11005	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)
BI-11006	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)
BI-11007	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)
BI-11008	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)
BI-11009	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)
BI-11010	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)
BI-11011	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)
BI-11012	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)
BI-11013	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)
BI-11014	34015	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	34016	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	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)
BI-11017	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)
BI-11018	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)



BACnet Object Identifier	Modbus Register	Object Name	Object States	Configuration Dependency
BI-11019	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)
BI-11020	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)
BI-11021	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)
BI-11022	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)
BI-11023	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)
BI-11024	34025	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	34026	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	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)
BI-11027	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)
BI-11028	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)
BI-11029	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)
BI-11030	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)
BI-11031	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)
BI-11032	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)
BI-11033	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)
BI-11034	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)
BI-11035	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)
BI-11038	34039	Diagnostic: At Speed Input Opened Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Non-Comm AFD Solid State Starter

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BI-11039	34040	Diagnostic: At Speed Input Opened Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Non-Comm AFD Solid State Starter
BI-11040	34041	Diagnostic: At Speed Input Shorted Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Non-Comm AFD Solid State Starter
BI-11041	34042	Diagnostic: At Speed Input Shorted Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Non-Comm AFD Solid State Starter
BI-11042	34043	Diagnostic: Check Clock	0 = Normal 1 = In Alarm	Standard
BI-11043	34044	Diagnostic: Check Oil Filter Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11044	34045	Diagnostic: Check Oil Filter Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11045	34046	Diagnostic: Check Oil Heater Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11046	34047	Diagnostic: Check Oil Heater Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11047	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)
BI-11048	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)
BI-11049	34050	Comm Loss: AFD Speed Signal VDC Output Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Non-Comm AFD
BI-11050	34051	Comm Loss: AFD Speed Signal VDC Output Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Non-Comm AFD
BI-11051	34052	Comm Loss: Compressor Motor % RLA Output Circuit 1	0 = Normal 1 = In Alarm	% RLA Output
BI-11052	34053	Comm Loss: Compressor Motor % RLA Output Circuit 2	0 = Normal 1 = In Alarm	% RLA Output
BI-11053	34054	Comm Loss: Cond Diff Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement
BI-11054	34055	Comm Loss: Cond Head Press Cntrl Output	0 = Normal 1 = In Alarm	Head Pressure Control
BI-11055	34056	Comm Loss: Cond High Pressure Cutout Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11056	34057	Comm Loss: Cond High Pressure Cutout Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11057	34058	Comm Loss: Cond Refrigerant Pressure Circuit 1	0 = Normal 1 = In Alarm	Condenser Pressure Sensor
BI-11058	34059	Comm Loss: Cond Refrigerant Pressure Circuit 2	0 = Normal 1 = In Alarm	Condenser Pressure Sensor
BI-11059	34060	Comm Loss: Cond Rfgt Pressure Output Circuit 1	0 = Normal 1 = In Alarm	Condenser Refrigerant Pressure Output
BI-11060	34061	Comm Loss: Cond Rfgt Pressure Output Circuit 2	0 = Normal 1 = In Alarm	Condenser Refrigerant Pressure Output



BACnet Object Identifier	Modbus Register	Object Name	Object States	Configuration Dependency
BI-11061	34062	Comm Loss: Cond Saturated Rfgt Temp Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11062	34063	Comm Loss: Cond Saturated Rfgt Temp Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11063	34064	Comm Loss: Condenser Entering Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensors
BI-11064	34065	Comm Loss: Condenser Entering Water Temp	0 = Normal 1 = In Alarm	Standard
BI-11065	34066	Comm Loss: Condenser Leaving Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensors
BI-11066	34067	Comm Loss: Condenser Leaving Water Temp	0 = Normal 1 = In Alarm	Standard
BI-11067	34068	Comm Loss: Condenser Liquid Level Sensor Circuit 1	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11068	34069	Comm Loss: Condenser Liquid Level Sensor Circuit 2	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11069	34070	Comm Loss: Condenser Water Flow Switch	0 = Normal 1 = In Alarm	Standard
BI-11070	34071	Comm Loss: Condenser Water Pump Relay	0 = Normal 1 = In Alarm	Standard
BI-11071	34072	Comm Loss: Cprsr Discharge Rfgt Temp Circuit 1	0 = Normal 1 = In Alarm	Compressor Refrigerant Discharge Temp Sensor
BI-11072	34073	Comm Loss: Cprsr Discharge Rfgt Temp Circuit 2	0 = Normal 1 = In Alarm	Compressor Refrigerant Discharge Temp Sensor
BI-11073	34074	Comm Loss: Economizer Bypass Valve Circuit 1	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11074	34075	Comm Loss: Economizer Bypass Valve Circuit 2	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11075	34076	Comm Loss: Emergency Stop	0 = Normal 1 = In Alarm	Standard
BI-11076	34077	Comm Loss: Energy Meter 1 Circuit 1	0 = Normal 1 = In Alarm	Energy Meter
BI-11077	34078	Comm Loss: Energy Meter 2 Circuit 2	0 = Normal 1 = In Alarm	Energy Meter
BI-11078	34079	Comm Loss: Evap Diff Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement
BI-11079	34080	Comm Loss: Evap Entering Water Temp	0 = Normal 1 = In Alarm	Standard
BI-11080	34081	Comm Loss: Evap Leaving Water Temp	0 = Normal 1 = In Alarm	Standard
BI-11081	34082	Comm Loss: Evap Refrigerant Pressure Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11082	34083	Comm Loss: Evap Refrigerant Pressure Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11083	34084	Comm Loss: Evap Sat Refrig Temp Circuit 1	0 = Normal 1 = In Alarm	Standard

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BI-11084	34085	Comm Loss: Evap Sat Refrig Temp Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11085	34086	Comm Loss: Evaporator Entering Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Dual Pressure Sensors
BI-11086	34087	Comm Loss: Evaporator Leaving Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Dual Pressure Sensors
BI-11087	34088	Comm Loss: Evaporator Water Flow Switch	0 = Normal 1 = In Alarm	Standard
BI-11088	34089	Comm Loss: Evaporator Water Pump Relay	0 = Normal 1 = In Alarm	Standard
BI-11089	34090	Comm Loss: Ext Base Loading Command	0 = Normal 1 = In Alarm	Base Loading
BI-11090	34091	Comm Loss: Ext Base Loading Setpoint	0 = Normal 1 = In Alarm	Base Loading
BI-11091	34092	Comm Loss: Ext Chilled/Hot Water Setpoint	0 = Normal 1 = In Alarm	External Chilled Water Setpoint
BI-11092	34093	Comm Loss: Ext Demand Limit Setpoint	0 = Normal 1 = In Alarm	External Demand Limit Setpoint
BI-11093	34094	Comm Loss: External Auto/Stop	0 = Normal 1 = In Alarm	Standard
BI-11094	34095	Comm Loss: External Ckt Lockout Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11095	34096	Comm Loss: External Ckt Lockout Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11097	34098	Comm Loss: External Hot Water Command	0 = Normal 1 = In Alarm	Hot Water Control
BI-11098	34099	Comm Loss: External Ice Building Command	0 = Normal 1 = In Alarm	Ice Building
BI-11099	34100	Comm Loss: Generator Fault Input Circuit 1	0 = Normal 1 = In Alarm	Engine/Generator
BI-11100	34101	Comm Loss: Generator Fault Input Circuit 2	0 = Normal 1 = In Alarm	Engine/Generator
BI-11101	34102	Comm Loss: Generator Speed Signal Output Circuit 1	0 = Normal 1 = In Alarm	Engine/Generator
BI-11102	34103	Comm Loss: Generator Speed Signal Output Circuit 2	0 = Normal 1 = In Alarm	Engine/Generator
BI-11103	34104	Comm Loss: Generator Start/Stop Relay Circuit 1	0 = Normal 1 = In Alarm	Engine/Generator
BI-11104	34105	Comm Loss: Generator Start/Stop Relay Circuit 2	0 = Normal 1 = In Alarm	Engine/Generator
BI-11105	34106	Comm Loss: Generator Up To Speed Input Circuit 1	0 = Normal 1 = In Alarm	Engine/Generator
BI-11106	34107	Comm Loss: Generator Up To Speed Input Circuit 2	0 = Normal 1 = In Alarm	Engine/Generator
BI-11107	34108	Comm Loss: Heat Recovery Entering Water Temp	0 = Normal 1 = In Alarm	Heat Recovery



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BI-11108	34109	Comm Loss: Heat Recovery Leaving Water Temp	0 = Normal 1 = In Alarm	Heat Recovery
BI-11112	34113	Comm Loss: Ice Building Relay	0 = Normal 1 = In Alarm	Ice Building
BI-11113	34114	Comm Loss: IGV First Stage Actuator Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11114	34115	Comm Loss: IGV First Stage Actuator Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11115	34116	Comm Loss: IGV Second Stage Actuator Circuit 1	0 = Normal 1 = In Alarm	IGV Actuator - Dual
BI-11116	34117	Comm Loss: IGV Second Stage Actuator Circuit 2	0 = Normal 1 = In Alarm	IGV Actuator - Dual
BI-11117	34118	Comm Loss: Inboard Bearing Temperature Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensors
BI-11118	34119	Comm Loss: Inboard Bearing Temperature Circuit 2	0 = Normal 1 = In Alarm	Bearing Temp Sensors
BI-11119	34120	Comm Loss: Motor Winding Temperature 1 Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11120	34121	Comm Loss: Motor Winding Temperature 1 Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11121	34122	Comm Loss: Motor Winding Temperature 2 Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11122	34123	Comm Loss: Motor Winding Temperature 2 Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11123	34124	Comm Loss: Motor Winding Temperature 3 Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11124	34125	Comm Loss: Motor Winding Temperature 3 Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11125	34126	Comm Loss: Oil Cooler Solenoid Circuit 1	0 = Normal 1 = In Alarm	Oil Cooler Solenoid Valve
BI-11126	34127	Comm Loss: Oil Cooler Solenoid Circuit 2	0 = Normal 1 = In Alarm	Oil Cooler Solenoid Valve
BI-11127	34128	Comm Loss: Oil Pump Discharge Pressure Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11128	34129	Comm Loss: Oil Pump Discharge Pressure Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11129	34130	Comm Loss: Oil Tank Heater 4E1 Relay Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11130	34131	Comm Loss: Oil Tank Heater 4E1 Relay Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11131	34132	Comm Loss: Oil Tank Heater 4E2 Relay Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11132	34133	Comm Loss: Oil Tank Heater 4E2 Relay Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11133	34134	Comm Loss: Oil Tank Heater Relay Circuit 1	0 = Normal 1 = In Alarm	CDHF,G

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BI-11134	34135	Comm Loss: Oil Tank Heater Relay Circuit 2	0 = Normal 1 = In Alarm	CDHF,G
BI-11135	34136	Comm Loss: Oil Tank Pressure Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11136	34137	Comm Loss: Oil Tank Pressure Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11137	34138	Comm Loss: Oil Tank Temperature Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11138	34139	Comm Loss: Oil Tank Temperature Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11139	34140	Comm Loss: Oil Vent Line Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11140	34141	Comm Loss: Oil Vent Line Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11141	34142	Comm Loss: Oil/Refrigerant Pump Relay Circuit 1	0 = Normal 1 = In Alarm	CDHF,G
BI-11142	34143	Comm Loss: Oil/Refrigerant Pump Relay Circuit 2	0 = Normal 1 = In Alarm	CDHF,G
BI-11143	34144	Comm Loss: Outboard Bearing Pad Temp 1 Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11144	34145	Comm Loss: Outboard Bearing Pad Temp 1 Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11145	34146	Comm Loss: Outboard Bearing Pad Temp 2 Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11146	34147	Comm Loss: Outboard Bearing Pad Temp 2 Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11147	34148	Comm Loss: Outboard Bearing Pad Temp 3 Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11148	34149	Comm Loss: Outboard Bearing Pad Temp 3 Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11149	34150	Comm Loss: Outboard Bearing Temperature Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensors
BI-11150	34151	Comm Loss: Outboard Bearing Temperature Circuit 2	0 = Normal 1 = In Alarm	Bearing Temp Sensors
BI-11151	34152	Comm Loss: Outdoor Air Temperature	0 = Normal 1 = In Alarm	Outdoor Air Temp Sensor
BI-11152	34153	Comm Loss: Programmable Relay Board 1	0 = Normal 1 = In Alarm	Operating Status Programmable Relays
BI-11153	34154	Comm Loss: Programmable Relay Board 2	0 = Normal 1 = In Alarm	Operating Status Programmable Relays
BI-11154	34155	Comm Loss: Purge Alarm Relay Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11155	34156	Comm Loss: Purge Alarm Relay Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11156	34157	Comm Loss: Purge Carbon Tank Heater Rly Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank



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BI-11157	34158	Comm Loss: Purge Carbon Tank Heater Rly Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11158	34159	Comm Loss: Purge Carbon Tank Temperature Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11159	34160	Comm Loss: Purge Carbon Tank Temperature Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11160	34161	Comm Loss: Purge Condensing Unit Relay Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11161	34162	Comm Loss: Purge Condensing Unit Relay Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11162	34163	Comm Loss: Purge Cprsr Suction Rfgt Temp Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11163	34164	Comm Loss: Purge Cprsr Suction Rfgt Temp Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11164	34165	Comm Loss: Purge Exhaust Solenoid Output Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11165	34166	Comm Loss: Purge Exhaust Solenoid Output Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11166	34167	Comm Loss: Purge Liquid Level Switch Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11167	34168	Comm Loss: Purge Liquid Level Switch Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11168	34169	Comm Loss: Purge Liquid Temperature Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11169	34170	Comm Loss: Purge Liquid Temperature Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11170	34171	Comm Loss: Purge Pumpout Relay Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11171	34172	Comm Loss: Purge Pumpout Relay Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11172	34173	Comm Loss: Purge Pumpout Solenoid Output Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11173	34174	Comm Loss: Purge Pumpout Solenoid Output Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11174	34175	Comm Loss: Purge Regen Solenoid Relay Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11175	34176	Comm Loss: Purge Regen Solenoid Relay Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11176	34177	Comm Loss: Refrigerant Monitor Input	0 = Normal 1 = In Alarm	Refrigerant Monitor
BI-11177	34178	Comm Loss: Starter Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11178	34179	Comm Loss: Starter Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD

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BI-11179	34180	Comm Loss: Starter Fault Circuit 1	0 = Normal 1 = In Alarm	Solid State Starters Remote Mount Non-Comm AFD
BI-11180	34181	Comm Loss: Starter Fault Circuit 2	0 = Normal 1 = In Alarm	Solid State Starters Remote Mount Non-Comm AFD
BI-11181	34182	Comm Loss: Unit Purge Alarm Relay	0 = Normal 1 = In Alarm	Purge
BI-11182	34183	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	34184	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	34185	Diagnostic: Cond Saturated Refrigerant Temp Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11185	34186	Diagnostic: Cond Saturated Refrigerant Temp Sensor Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11186	34187	Diagnostic: Condenser Diff Water Pressure Xdcr	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Differential Pressure
BI-11187	34188	Diagnostic: Condenser Entering Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensors
BI-11188	34189	Diagnostic: Condenser Entering Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
BI-11189	34190	Diagnostic: Condenser High Pressure Cutout Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11190	34191	Diagnostic: Condenser High Pressure Cutout Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11191	34192	Diagnostic: Condenser Leaving Water Pressure	0 = Normal 1 = In Alarm	Cond Water Flow Measurement - Dual Pressure Sensors
BI-11192	34193	Diagnostic: Condenser Leaving Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
BI-11193	34194	Diagnostic: Condenser Liquid Level Sensor Circuit 1	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11194	34195	Diagnostic: Condenser Liquid Level Sensor Circuit 2	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11195	34196	Diagnostic: Condenser Refrigerant Pressure Xdcr Circuit 1	0 = Normal 1 = In Alarm	Cond Pressure Sensor
BI-11196	34197	Diagnostic: Condenser Refrigerant Pressure Xdcr Circuit 2	0 = Normal 1 = In Alarm	Cond Pressure Sensor
BI-11197	34198	Diagnostic: Condenser Water Flow Lost	0 = Normal 1 = In Alarm	Standard
BI-11198	34199	Diagnostic: Condenser Water Flow Overdue	0 = Normal 1 = In Alarm	Standard
BI-11199	34200	Diagnostic: Cprsr Did Not Accelerate: Transition Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD

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BACnet® and Modbus™
 CenTraVac™ Duplex

Date:4/30/2025
 Reference Document: BAS-SVP083*-EN



BACnet Object Identifier	Modbus Register	Object Name	Object States	Configuration Dependency
BI-11200	34201	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	34202	Diagnostic: Cprsr Discharge Refrigerant Temp Sensor Circuit 1	0 = Normal 1 = In Alarm	Compressor Refrigerant Discharge Temp Sensor
BI-11202	34203	Diagnostic: Cprsr Discharge Refrigerant Temp Sensor Circuit 2	0 = Normal 1 = In Alarm	Compressor Refrigerant Discharge Temp Sensor
BI-11203	34204	Diagnostic: Differential Oil Pressure Overdue Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11204	34205	Diagnostic: Differential Oil Pressure Overdue Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11206	34207	Diagnostic: Emergency Stop	0 = Normal 1 = In Alarm	Standard
BI-11207	34208	Diagnostic: Evap Saturated Refrigerant Temp Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11208	34209	Diagnostic: Evap Saturated Refrigerant Temp Sensor Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11209	34210	Diagnostic: Evaporator Diff Water Pressure Xdcr	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Differential Pressure
BI-11210	34211	Diagnostic: Evaporator Entering Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Dual Pressure Sensors
BI-11211	34212	Diagnostic: Evaporator Entering Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
BI-11212	34213	Diagnostic: Evaporator Leaving Water Pressure	0 = Normal 1 = In Alarm	Evap Water Flow Measurement - Dual Pressure Sensors
BI-11213	34214	Diagnostic: Evaporator Leaving Water Temp Sensor	0 = Normal 1 = In Alarm	Standard
BI-11214	34215	Diagnostic: Evaporator Refrigerant Pressure Xdcr Circuit 1	0 = Normal 1 = In Alarm	Evap Pressure Sensor
BI-11215	34216	Diagnostic: Evaporator Refrigerant Pressure Xdcr Circuit 2	0 = Normal 1 = In Alarm	Evap Pressure Sensor
BI-11216	34217	Diagnostic: Evaporator Water Flow Lost	0 = Normal 1 = In Alarm	Standard
BI-11217	34218	Diagnostic: Evaporator Water Flow Overdue	0 = Normal 1 = In Alarm	Standard
BI-11218	34219	Diagnostic: Excessive Loss of Communication	0 = Normal 1 = In Alarm	Standard
BI-11221	34222	Diagnostic: Extended Compressor Surge Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11222	34223	Diagnostic: Extended Compressor Surge Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11223	34224	Diagnostic: External Base Loading Setpoint	0 = Normal 1 = In Alarm	Base Loading
BI-11224	34225	Diagnostic: External Chilled/Hot Water Setpoint	0 = Normal 1 = In Alarm	External Chilled Water Setpoint



BACnet Object Identifier	Modbus Register	Object Name	Object States	Configuration Dependency
BI-11225	34226	Diagnostic: External Demand Limit Setpoint	0 = Normal 1 = In Alarm	External Demand Limit Setpoint
BI-11230	34231	Diagnostic: Generator Fault Relay Open Circuit 1	0 = Normal 1 = In Alarm	Engine/Generator
BI-11231	34232	Diagnostic: Generator Fault Relay Open Circuit 2	0 = Normal 1 = In Alarm	Engine/Generator
BI-11232	34233	Diagnostic: Generator Ready Signal Overdue Circuit 1	0 = Normal 1 = In Alarm	Engine/Generator
BI-11233	34234	Diagnostic: Generator Ready Signal Overdue Circuit 2	0 = Normal 1 = In Alarm	Engine/Generator
BI-11234	34235	Diagnostic: Heat Recovery Entering Water Temp Sensor	0 = Normal 1 = In Alarm	Heat Recovery
BI-11235	34236	Diagnostic: Heat Recovery Leaving Water Temp Sensor	0 = Normal 1 = In Alarm	Heat Recovery
BI-11236	34237	Diagnostic: High Cprsr Rfgt Discharge Temperature Circuit 1	0 = Normal 1 = In Alarm	Compressor Refrigerant Discharge Temp Sensor
BI-11237	34238	Diagnostic: High Cprsr Rfgt Discharge Temperature Circuit 2	0 = Normal 1 = In Alarm	Compressor Refrigerant Discharge Temp Sensor
BI-11238	34239	Diagnostic: High Differential Refrigerant Pressure Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11239	34240	Diagnostic: High Differential Refrigerant Pressure Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11240	34241	Diagnostic: High Evaporator Refrigerant Temperature Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11241	34242	Diagnostic: High Evaporator Refrigerant Temperature Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11242	34243	Diagnostic: High Evaporator Water Temperature	0 = Normal 1 = In Alarm	Standard
BI-11243	34244	Diagnostic: High Inboard Bearing Temperature Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensors
BI-11244	34245	Diagnostic: High Inboard Bearing Temperature Circuit 2	0 = Normal 1 = In Alarm	Bearing Temp Sensors
BI-11245	34246	Diagnostic: High Motor Winding Temperature 1 Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11246	34247	Diagnostic: High Motor Winding Temperature 1 Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11247	34248	Diagnostic: High Motor Winding Temperature 2 Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11248	34249	Diagnostic: High Motor Winding Temperature 2 Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11249	34250	Diagnostic: High Motor Winding Temperature 3 Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11250	34251	Diagnostic: High Motor Winding Temperature 3 Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11251	34252	Diagnostic: High Oil Temperature Circuit 1	0 = Normal 1 = In Alarm	Standard



BACnet Object Identifier	Modbus Register	Object Name	Object States	Configuration Dependency
BI-11252	34253	Diagnostic: High Oil Temperature Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11253	34254	Diagnostic: High Outboard Bearing Pad Temperature 1 Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11254	34255	Diagnostic: High Outboard Bearing Pad Temperature 1 Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11255	34256	Diagnostic: High Outboard Bearing Pad Temperature 2 Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11256	34257	Diagnostic: High Outboard Bearing Pad Temperature 2 Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11257	34258	Diagnostic: High Outboard Bearing Pad Temperature 3 Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11258	34259	Diagnostic: High Outboard Bearing Pad Temperature 3 Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11259	34260	Diagnostic: High Outboard Bearing Temp Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensors
BI-11260	34261	Diagnostic: High Outboard Bearing Temp Circuit 2	0 = Normal 1 = In Alarm	Bearing Temp Sensors
BI-11261	34262	Diagnostic: High Vacuum Lockout Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11262	34263	Diagnostic: High Vacuum Lockout Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11266	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)
BI-11267	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)
BI-11268	34269	Diagnostic: Inboard Bearing Temp Sensor Circuit 1	0 = Normal 1 = In Alarm	Bearing Temp Sensors
BI-11269	34270	Diagnostic: Inboard Bearing Temp Sensor Circuit 2	0 = Normal 1 = In Alarm	Bearing Temp Sensors
BI-11270	34271	Diagnostic: Inverted Condenser Water Temperature	0 = Normal 1 = In Alarm	Standard
BI-11271	34272	Diagnostic: Inverted Evaporator Water Temperature	0 = Normal 1 = In Alarm	Standard
BI-11272	34273	Diagnostic: Loss of Economizer Bypass Valve Control Circuit 1	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11273	34274	Diagnostic: Loss of Economizer Bypass Valve Control Circuit 2	0 = Normal 1 = In Alarm	Economizer Bypass
BI-11274	34275	Diagnostic: Low Differential Oil Pressure Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11275	34276	Diagnostic: Low Differential Oil Pressure Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11276	34277	Diagnostic: Low Evap Leaving Water Temp: Unit Off	0 = Normal 1 = In Alarm	Standard
BI-11277	34278	Diagnostic: Low Evap Leaving Water Temp: Unit On	0 = Normal 1 = In Alarm	Standard



BACnet Object Identifier	Modbus Register	Object Name	Object States	Configuration Dependency
BI-11278	34279	Diagnostic: Low Evaporator Refrigerant Temperature Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11279	34280	Diagnostic: Low Evaporator Refrigerant Temperature Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11280	34281	Diagnostic: Low Evaporator Water Flow	0 = Normal 1 = In Alarm	Evap Water Flow Measurement
BI-11281	34282	Diagnostic: Low Oil Temperature Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11282	34283	Diagnostic: Low Oil Temperature Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11283	34284	Diagnostic: Momentary Power Loss Circuit 1	0 = Normal 1 = In Alarm	Momentary Power Loss
BI-11284	34285	Diagnostic: Momentary Power Loss Circuit 2	0 = Normal 1 = In Alarm	Momentary Power Loss
BI-11285	34286	Diagnostic: Motor Current Overload Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11286	34287	Diagnostic: Motor Current Overload Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11287	34288	Diagnostic: Motor Winding Temperature 1 Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11288	34289	Diagnostic: Motor Winding Temperature 1 Sensor Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11289	34290	Diagnostic: Motor Winding Temperature 2 Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11290	34291	Diagnostic: Motor Winding Temperature 2 Sensor Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11291	34292	Diagnostic: Motor Winding Temperature 3 Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11292	34293	Diagnostic: Motor Winding Temperature 3 Sensor Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11293	34294	Diagnostic: MP: Invalid Configuration	0 = Normal 1 = In Alarm	Standard
BI-11294	34295	Diagnostic: MP: Reset Has Occurred	0 = Normal 1 = In Alarm	Standard
BI-11295	34296	Diagnostic: Oil Pressure Sensor Calibration Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11296	34297	Diagnostic: Oil Pressure Sensor Calibration Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11297	34298	Diagnostic: Oil Pump Discharge Pressure Transducer Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11298	34299	Diagnostic: Oil Pump Discharge Pressure Transducer Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11299	34300	Diagnostic: Oil Tank Pressure Transducer Circuit 1	0 = Normal 1 = In Alarm	Standard



BACnet Object Identifier	Modbus Register	Object Name	Object States	Configuration Dependency
BI-11300	34301	Diagnostic: Oil Tank Pressure Transducer Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11301	34302	Diagnostic: Oil Tank Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11302	34303	Diagnostic: Oil Tank Temperature Sensor Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11303	34304	Diagnostic: Outboard Bearing Pad Temp 1 Sensor Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11304	34305	Diagnostic: Outboard Bearing Pad Temp 1 Sensor Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11305	34306	Diagnostic: Outboard Bearing Pad Temp 2 Sensor Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11306	34307	Diagnostic: Outboard Bearing Pad Temp 2 Sensor Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11307	34308	Diagnostic: Outboard Bearing Pad Temp 3 Sensor Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11308	34309	Diagnostic: Outboard Bearing Pad Temp 3 Sensor Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11309	34310	Diagnostic: Outboard Bearing Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	CDHH
BI-11310	34311	Diagnostic: Outboard Bearing Temperature Sensor Circuit 2	0 = Normal 1 = In Alarm	CDHH
BI-11311	34312	Diagnostic: Outdoor Air Temperature Sensor	0 = Normal 1 = In Alarm	Outdoor Air Temp Sensor
BI-11312	34313	Diagnostic: Over Voltage Circuit 1	0 = Normal 1 = In Alarm	Line Voltage Sensing
BI-11313	34314	Diagnostic: Over Voltage Circuit 2	0 = Normal 1 = In Alarm	Line Voltage Sensing
BI-11314	34315	Diagnostic: Phase Loss Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11315	34316	Diagnostic: Phase Loss Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11316	34317	Diagnostic: Phase Reversal Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11317	34318	Diagnostic: Phase Reversal Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11318	34319	Diagnostic: Power Loss Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11319	34320	Diagnostic: Power Loss Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD



BACnet Object Identifier	Modbus Register	Object Name	Object States	Configuration Dependency
BI-11320	34321	Diagnostic: Purge Carbon Regen Temp Limit Exceeded Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11321	34322	Diagnostic: Purge Carbon Regen Temp Limit Exceeded Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11322	34323	Diagnostic: Purge Carbon Regen Temp Not Satisfied Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11323	34324	Diagnostic: Purge Carbon Regen Temp Not Satisfied Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11324	34325	Diagnostic: Purge Carbon Regen Temperature Too Low Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11325	34326	Diagnostic: Purge Carbon Regen Temperature Too Low Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11326	34327	Diagnostic: Purge Carbon Tank Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11327	34328	Diagnostic: Purge Carbon Tank Temperature Sensor Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11328	34329	Diagnostic: Purge Cprsr Suction Rfgt Temp Sensor Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11329	34330	Diagnostic: Purge Cprsr Suction Rfgt Temp Sensor Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11330	34331	Diagnostic: Purge Daily Pumpout Limit Exceeded Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11331	34332	Diagnostic: Purge Daily Pumpout Limit Exceeded Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11332	34333	Diagnostic: Purge Liquid Level Too High Continuously Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11333	34334	Diagnostic: Purge Liquid Level Too High Continuously Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11334	34335	Diagnostic: Purge Liquid Level Too High Warning Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11335	34336	Diagnostic: Purge Liquid Level Too High Warning Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11336	34337	Diagnostic: Purge Liquid Temperature Sensor Circuit 1	0 = Normal 1 = In Alarm	Purge
BI-11337	34338	Diagnostic: Purge Liquid Temperature Sensor Circuit 2	0 = Normal 1 = In Alarm	Purge
BI-11338	34339	Diagnostic: Purge Regen Cooldown Temp Too High Circuit 1	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11339	34340	Diagnostic: Purge Regen Cooldown Temp Too High Circuit 2	0 = Normal 1 = In Alarm	Purge w/Carbon tank
BI-11341	34342	Diagnostic: Refrigerant Monitor Input	0 = Normal 1 = In Alarm	Refrigerant Monitor
BI-11342	34343	Diagnostic: Restart Inhibit Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11343	34344	Diagnostic: Restart Inhibit Circuit 2	0 = Normal 1 = In Alarm	Standard



BACnet Object Identifier	Modbus Register	Object Name	Object States	Configuration Dependency
BI-11344	34345	Diagnostic: Severe Current Unbalance Circuit 1	0 = Normal 1 = In Alarm	Line Voltage Sensing
BI-11345	34346	Diagnostic: Severe Current Unbalance Circuit 2	0 = Normal 1 = In Alarm	Line Voltage Sensing
BI-11346	34347	Diagnostic: Software Error 1001: Call Trane Service	0 = Normal 1 = In Alarm	Standard
BI-11347	34348	Diagnostic: Software Error 1004: Call Trane Service	0 = Normal 1 = In Alarm	Standard
BI-11348	34349	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	34350	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	34351	Diagnostic: Starter Contactor Interrupt Failure Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11351	34352	Diagnostic: Starter Contactor Interrupt Failure Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11352	34353	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	34354	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	34355	Diagnostic: Starter Did Not Transition Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11355	34356	Diagnostic: Starter Did Not Transition Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11356	34357	Diagnostic: Starter Dry Run Test Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11357	34358	Diagnostic: Starter Dry Run Test Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11358	34359	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	34360	Diagnostic: Starter Failed to Arm/ Start Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD



BACnet Object Identifier	Modbus Register	Object Name	Object States	Configuration Dependency
BI-11360	34361	Diagnostic: Starter Fault Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11361	34362	Diagnostic: Starter Fault Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11362	34363	Diagnostic: Starter Fault Type I Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11363	34364	Diagnostic: Starter Fault Type I Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11364	34365	Diagnostic: Starter Fault Type II Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11365	34366	Diagnostic: Starter Fault Type II Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11366	34367	Diagnostic: Starter Fault Type III Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11367	34368	Diagnostic: Starter Fault Type III Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11368	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
BI-11369	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
BI-11370	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
BI-11371	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
BI-11372	34373	Diagnostic: Transition Complete Input Opened Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11373	34374	Diagnostic: Transition Complete Input Opened Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11374	34375	Diagnostic: Transition Complete Input Shorted Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD



BACnet Object Identifier	Modbus Register	Object Name	Object States	Configuration Dependency
BI-11375	34376	Diagnostic: Transition Complete Input Shorted Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11376	34377	Diagnostic: Under Voltage Circuit 1	0 = Normal 1 = In Alarm	Line Voltage Sensing
BI-11377	34378	Diagnostic: Under Voltage Circuit 2	0 = Normal 1 = In Alarm	Line Voltage Sensing
BI-11378	34379	Diagnostic: Unexpected Differential Oil Pressure Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-11379	34380	Diagnostic: Unexpected Differential Oil Pressure Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-11380	34381	Diagnostic: Unexpected Starter Shutdown Circuit 1	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11381	34382	Diagnostic: Unexpected Starter Shutdown Circuit 2	0 = Normal 1 = In Alarm	EM Starters Solid State Starters Remote Mount Non-Comm AFD
BI-11382	34383	Diagnostic: AFD Bus Over Voltage Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
BI-11383	34384	Diagnostic: AFD Bus Over Voltage Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
BI-11384	34385	Diagnostic: AFD Bus Under Voltage Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
BI-11385	34386	Diagnostic: AFD Bus Under Voltage Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
BI-11386	34387	Diagnostic: AFD Motor Fault Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
BI-11387	34388	Diagnostic: AFD Motor Fault Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
BI-11388	34389	Diagnostic: AFD Precharge Fault Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
BI-11389	34390	Diagnostic: AFD Precharge Fault Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
BI-11390	34391	Diagnostic: AFD Over Temperature Circuit 1	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
BI-11391	34392	Diagnostic: AFD Over Temperature Circuit 2	0 = Normal 1 = In Alarm	Remote Mount Comm AFD - VFDB (PF6000)
BI-11392	34393	Diagnostic: AFD Mains Phase Loss Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD
BI-11393	34394	Diagnostic: AFD Mains Phase Loss Circuit 2	0 = Normal 1 = In Alarm	TR200 Modbus AFD
BI-11394	34395	Diagnostic: AFD Motor Current Overload Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD
BI-11395	34396	Diagnostic: AFD Motor Current Overload Circuit 2	0 = Normal 1 = In Alarm	TR200 Modbus AFD

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BI-11396	34397	Diagnostic: AFD Ground Fault Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD
BI-11397	34398	Diagnostic: AFD Ground Fault Circuit 2	0 = Normal 1 = In Alarm	TR200 Modbus AFD
BI-11398	34399	Diagnostic: AFD Short Circuit Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD
BI-11399	34400	Diagnostic: AFD Short Circuit Circuit 2	0 = Normal 1 = In Alarm	TR200 Modbus AFD
BI-11400	34401	Diagnostic: AFD Safe Stop Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD
BI-11401	34402	Diagnostic: AFD Safe Stop Circuit 2	0 = Normal 1 = In Alarm	TR200 Modbus AFD
BI-11402	34403	Diagnostic: AFD Fault Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD
BI-11403	34404	Diagnostic: AFD Fault Circuit 2	0 = Normal 1 = In Alarm	TR200 Modbus AFD
BI-11404	34405	Diagnostic: AFD Speed Configuration Mismatch Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD
BI-11405	34406	Diagnostic: AFD Speed Configuration Mismatch Circuit 2	0 = Normal 1 = In Alarm	TR200 Modbus AFD
BI-11406	34407	Diagnostic: AFD General Failure Circuit 1	0 = Normal 1 = In Alarm	TR200 Modbus AFD
BI-11407	34408	Diagnostic: AFD General Failure Circuit 2	0 = Normal 1 = In Alarm	TR200 Modbus AFD
BI-11408	34409	Comm Loss: Heat Recovery Differential Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery
BI-11409	34410	Comm Loss: Heat Recovery Entering Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery
BI-11410	34411	Comm Loss: Heat Recovery Leaving Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery
BI-11411	34412	Comm Loss: Heat Recovery Water Flow Switch	0 = Normal 1 = In Alarm	Heat Recovery
BI-11412	34413	Comm Loss: External Diagnostic Reset	0 = Normal 1 = In Alarm	External Diagnostic Reset
BI-11413	34414	Diagnostic: Heat Recovery Diff Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery
BI-11414	34415	Diagnostic: Heat Recovery Entering Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery
BI-11415	34416	Diagnostic: Heat Recovery Leaving Water Pressure	0 = Normal 1 = In Alarm	Heat Recovery
BI-11416	34417	Diagnostic: Inverted Heat Recovery Water Temperature	0 = Normal 1 = In Alarm	Heat Recovery
BI-11417	34418	Comm Loss: Condenser Rfgt Valve Feedback Circuit 1	0 = Normal 1 = In Alarm	Variable Orifice
BI-11418	34419	Comm Loss: Condenser Rfgt Valve Feedback Circuit 2	0 = Normal 1 = In Alarm	Variable Orifice

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BACnet Object Identifier	Modbus Register	Object Name	Object States	Configuration Dependency
BI-11419	34420	Comm Loss: Economizer Rfgt Valve Feedback Circuit 1	0 = Normal 1 = In Alarm	Variable Orifice
BI-11420	34421	Comm Loss: Economizer Rfgt Valve Feedback Circuit 2	0 = Normal 1 = In Alarm	Variable Orifice
BI-11421	34422	Comm Loss: Economizer Intermediate Pressure Circuit 1	0 = Normal 1 = In Alarm	Variable Orifice
BI-11422	34423	Comm Loss: Economizer Intermediate Pressure Circuit 2	0 = Normal 1 = In Alarm	Variable Orifice
BI-11423	34424	Diagnostic: Economizer Rfgt Valve Loss of Control Circuit 1	0 = Normal 1 = In Alarm	Variable Orifice
BI-11424	34425	Diagnostic: Economizer Rfgt Valve Loss of Control Circuit 2	0 = Normal 1 = In Alarm	Variable Orifice
BI-11425	34426	Diagnostic: Condenser Rfgt Valve Loss of Control Circuit 1	0 = Normal 1 = In Alarm	Variable Orifice
BI-11426	34427	Diagnostic: Condenser Rfgt Valve Loss of Control Circuit 2	0 = Normal 1 = In Alarm	Variable Orifice
BI-11427	34428	Diagnostic: Low Condenser Water Flow	0 = Normal 1 = In Alarm	Hot Water Control
BI-11428	34429	Diagnostic: Low Heat Recovery Water Flow	0 = Normal 1 = In Alarm	Heat Recovery

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BACnet Object Identifier	Modbus Register	Object Name	Object States	Configuration Dependency
BV-10100	43011	Base Loading Request	0 = Off 1 = On	Base Loading
BV-10101	43012	Reset Diagnostic	0 = Normal 1 = Reset	Standard
BV-10102	43013	Evaporator Water Pump Request BAS	0 = Auto 1 = On	Standard
BV-10103	43014	Condenser Water Pump Request BAS	0 = Auto 1 = On	Standard
BV-10104	43015	Chiller Auto Stop Command BAS	0 = Stop 1 = Auto	Standard
BV-10105	43016	Circuit 1 Lockout BAS	0 = Normal 1 = Locked Out	Standard
BV-10106	43017	Circuit 2 Lockout BAS	0 = Normal 1 = Locked Out	Standard
BV-10107	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)

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BACnet Object Identifier	Modbus Register	Object Name	Object States	Configuration Dependency
MI-10100	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
MI-10101	32012	Operating Mode	1 = Cool 2 = Heat 3 = Ice Making 4 = Free Cooling	Standard
MI-10102	32013	Chiller Setpoint Source	1 = BAS 2 = External 3 = Front Panel	Standard
MI-10103	32014	Cooling Type	1 = Water Cooled	Standard
MI-10104	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
MI-10105	32016	Manufacturing Location	1 = Field Applied 2 = La Crosse 15 = Taicang	Standard
MI-10106	32017	Model Information [GEN2]	1 = CVHF 2 = CVGF 3 = CVHS 11 = CDHF 12 = CVR 13 = CVHH 14 = CDHH 20 = CVHM 38 = CVHE 39 = CVHG 40 = CVHL 43 = CDHG	Standard



BACnet Object Identifier	Modbus Register	Object Name	Object States	Configuration Dependency
MV-10100	42011	Chiller Mode Command BAS	1 = Cool 2 = Heat 3 = Ice Making 4 = Free Cooling	Standard



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 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	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
21021	Comm Loss: Heat Recovery Differential Water Pressure

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Diagnostic Code (Dec)	Diagnostic Name
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
81007	Free Cooling Actrs Not Open During FC
81008	Free Cooling Actuators Not Closed

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Diagnostic Code (Dec)	Diagnostic Name
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
121004	Comm Loss: Adaptive Frequency Drive
121005	Starter Fault
121006	Comm Loss: Starter Fault

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Diagnostic Code (Dec)	Diagnostic Name
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
161002	Low Evap Leaving Water Temp: Unit On
161003	Evap Rfgt Temp Deviate From Selection
171001	Low Differential Oil Pressure
171002	Check Oil Filter

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Diagnostic Code (Dec)	Diagnostic Name
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
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

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Diagnostic Code (Dec)	Diagnostic Name
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
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

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Diagnostic Code (Dec)	Diagnostic Name
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
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

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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 Rfgr Discharge Temperature
211171	Comm Loss: Cprsr Discharge Rfgr Temp
211172	Under Voltage
211173	Over Voltage
211174	Motor Winding Temperature 1 Sensor
211175	Motor Winding Temperature 2 Sensor
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

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Diagnostic Code (Dec)	Diagnostic Name
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
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

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Diagnostic Code (Dec)	Diagnostic Name
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
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

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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 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
31006	High Evaporator Water Temperature

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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
91001	Comm Loss: Energy Meter 1
92001	Comm Loss: Energy Meter 2



Diagnostic Code (Dec)	Diagnostic Name
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
102013	Purge Liquid Temperature Sensor - ckt 2
102014	Purge Cprsr Suction Rfgt Temp Sensor - ckt 2
102015	Purge Carbon Tank Temperature Sensor - ckt 2

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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 Rfgr 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 Rfgr 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
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

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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
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

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Diagnostic Code (Dec)	Diagnostic Name
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
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

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Diagnostic Code (Dec)	Diagnostic Name
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
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

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Diagnostic Code (Dec)	Diagnostic Name
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
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

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Diagnostic Code (Dec)	Diagnostic Name
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
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

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Diagnostic Code (Dec)	Diagnostic Name
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
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

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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 Rfgr Discharge Temperature - ckt 2
212171	Comm Loss: Cprsr Discharge Rfgr 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
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

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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