

841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900

BELT DRIVE SUPPLY FAN MOTOR CIRCUIT PROTECTION, WITH BYPASS (1F5) - x3 EACH											
VOLTAGE	3 HP	5 HP	7.5 HP	10 HP	15 HP	20 HP	25 HP	30 HP	40 HP	50 HP	
200V	20A	30A	40A	60A	80A	100A	150A	150A	N/A	N/A	
230V	15A	25A	35A	45A	70A	100A	110A	150A	N/A	N/A	
380-415V	10A	15A	25A	30A	50A	60A	70A	80A	100A	N/A	
460V	10A	15A	20A	25A	35A	45A	60A	70A	90A	110A	
575V	10A	10A	15A	20A	30A	35A	45A	60A	70A	90A	
FUSES ARE CLASS J - TIME DELAY											

BELT DRIVE SUPPLY FAN VFD PROTECTION, WITHOUT BYPASS (1F5) - x3 EACH											
VOLTAGE	3 HP	5 HP	7.5 HP	10 HP	15 HP	20 HP	25 HP	30 HP	40 HP	50 HP	
200V	25A	50A	80A	80A	100A	100A	100A	150A	N/A	N/A	
230V	25A	25A	50A	80A	80A	100A	100A	150A	N/A	N/A	
380-415V	15A	15A	25A	25A	50A	50A	80A	125A	125A	N/A	
460V	15A	15A	25A	25A	50A	50A	80A	80A	125A	125A	
575V	20A	20A	20A	20A	30A	30A	80A	80A	80A	125A	
0-100A ARE CLASS J - FAST ACTING. 110-200A ARE CLASS T - FAST ACTING.											

SINGLE DIRECT DRIVE SUPPLY FAN MOTOR CIRCUIT PROTECTION, WITH BYPASS (1F5) - x3 EACH															
VOLTAGE	3 HP		5 HP		7.5 HP		10 HP		15 HP		20 HP		25 HP		30 HP
	4-POLE 1.7K-2.4K RPM	6-POLE 1.0K-1.6K RPM	4-POLE 1.7K-2.4K RPM	6-POLE 1.0K-1.6K RPM	4-POLE 1.7K-2.4K RPM	6-POLE 1.0K-1.6K RPM	4-POLE 1.7K-2.4K RPM	6-POLE 1.0K-1.6K RPM	4-POLE 1.7K-2.4K RPM	6-POLE 1.0K-1.6K RPM	4-POLE 1.7K-2.4K RPM	6-POLE 1.0K-1.6K RPM			
200V	20A	20A	30A	30A	40A	45A	60A	60A	80A	90A	100A	125A	150A	150A	
230V	15A	20A	25A	30A	35A	40A	45A	60A	70A	80A	100A	100A	110A	150A	
460V	10A	10A	15A	15A	20A	20A	25A	30A	35A	40A	45A	50A	60A	70A	
575V	10A	10A	10A	10A	15A	20A	20A	25A	30A	30A	35A	45A	45A	60A	
FUSES ARE CLASS J - TIME DELAY															

SINGLE DIRECT DRIVE SUPPLY FAN VFD PROTECTION, WITHOUT BYPASS (1F5) - x3 EACH										
VOLTAGE	3 HP	5 HP	7.5 HP	10 HP		15 HP	20 HP		25 HP	30 HP
	4-POLE 1.7K-2.4K RPM	6-POLE 1.0K-1.6K RPM	4-POLE 1.7K-2.4K RPM	6-POLE 1.0K-1.6K RPM	4-POLE 1.7K-2.4K RPM	6-POLE 1.0K-1.6K RPM	4-POLE 1.7K-2.4K RPM	6-POLE 1.0K-1.6K RPM	4-POLE 1.7K-2.4K RPM	6-POLE 1.0K-1.6K RPM
200V	25A	50A	80A	80A	80A	100A	100A	100A	100A	150A
230V	25A	25A	50A	80A	80A	80A	100A	100A	100A	150A
460V	15A	15A	25A	25A	50A	50A	50A	50A	80A	80A
575V	20A	20A	20A	30A	30A	30A	80A	80A	80A	80A
0-100A ARE CLASS J - FAST ACTING. 110-200A ARE CLASS T - FAST ACTING.										

DUAL DIRECT DRIVE SUPPLY FAN MOTOR CIRCUIT PROTECTION, WITH BYPASS (1F5) - x3 EACH									
VOLTAGE	2X 5 HP		2X 7.5 HP		2X 10 HP		2X 15 HP		2X 25 HP
	4-POLE 1.7K-2.4K RPM	6-POLE 1.0K-1.6K RPM	4-POLE 1.7K-2.4K RPM	6-POLE 1.0K-1.6K RPM	4-POLE 1.7K-2.4K RPM	6-POLE 1.0K-1.6K RPM	4-POLE 1.7K-2.4K RPM	6-POLE 1.0K-1.6K RPM	
200V	60A	80A	80A	90A	110A	110A	150A	150A	N/A
230V	60A	70A	80A	90A	110A	110A	150A	150A	N/A
460V	30A	35A	40A	45A	60A	70A	80A	90A	110A
575V	20A	30A	35A	40A	45A	60A	60A	70A	90A
FUSES ARE CLASS J - TIME DELAY									

DUAL DIRECT DRIVE SUPPLY FAN VFD PROTECTION, WITHOUT BYPASS (1F5) - x3 EACH									
VOLTAGE	2X 5 HP		2X 7.5 HP		2X 10 HP		2X 15 HP		2X 20 HP
	4-POLE 1.7K-2.4K RPM	6-POLE 1.0K-1.6K RPM	4-POLE 1.7K-2.4K RPM	6-POLE 1.0K-1.6K RPM	4-POLE 1.7K-2.4K RPM	6-POLE 1.0K-1.6K RPM	4-POLE 1.7K-2.4K RPM	6-POLE 1.0K-1.6K RPM	
200V	80A	100A	100A	100A	100A	150A	150A	N/A	N/A
230V	80A	80A	100A	100A	100A	100A	150A	N/A	N/A
460V	50A	50A	50A	50A	80A	80A	110A	110A	110A
575V	30A	30A	30A	30A	80A	80A	80A	80A	110A
0-100A ARE CLASS J - FAST ACTING. 110-200A ARE CLASS T - FAST ACTING.									

CONTROLS TRANSFORMER PROTECTION (1F1, 1F2)	
VOLTAGE	FUSE SIZE
200V	25A CLASS CC TIME DELAY
230V	20A CLASS CC TIME DELAY
380-415V	12A CLASS CC TIME DELAY
460-575V	8A CLASS CC TIME DELAY

COMPRESSOR VFD PROTECTION (1F14) - x3 EACH		
VOLTAGE	TONNAGE	FUSE SIZE
200-230V	20-25T	150A CLASS T
	30-40T	200A CLASS T
	50-75T	250A CLASS T
460-575V	20-25T	80A CLASS J - FAST ACTING
	30-40T	100A CLASS J - FAST ACTING
	50-75T	125A CLASS T

CONTROLS CIRCUIT SWITCH (1S1)
20A CLASS CC TIME DELAY

27V CIRCUIT PROTECTION (1F17, 1F18)
5A CLASS CC TIME DELAY

115V CIRCUIT PROTECTION (1F3, 1F4)
5A CLASS CC TIME DELAY

PHASE MONITOR PROTECTION (1F30) x3 EACH
25A CLASS CC TIME DELAY

POWER METER PROTECTION (1F19) - x3 EACH
0.5A CLASS CC TIME DELAY

CONDENSER MOTOR CIRCUIT PROTECTION (1F10, 1F11) - x3 EACH
30A CLASS CC TIME DELAY

CONVENIENCE OUTLET FUSED DISCONNECT (2S5) - x2 EACH	
VOLTAGE	FUSE SIZE
200V	12A CLASS CC TIME DELAY
230V	10A CLASS CC TIME DELAY
460V	5A CLASS CC TIME DELAY
575V	4A CLASS CC TIME DELAY

RELIEF / RETURN FAN MOTOR CIRCUIT PROTECTION, WITH BYPASS (1F7) - x3 EACH						
VOLTAGE	3 HP	5 HP	7.5 HP	10 HP	15 HP	20 HP
200V	20A	30A	40A	60A	80A	100A
230V	15A	25A	35A	45A	70A	100A
380-415V	10A	15A	25A	30A	50A	60A
460V	10A	15A	20A	25A	35A	45A
575V	10A	10A	15A	20A	30A	35A
FUSES ARE CLASS J - TIME DELAY						

RELIEF / RETURN FAN VFD PROTECTION, WITHOUT BYPASS (1F7) - x3 EACH						
VOLTAGE	3 HP	5 HP	7.5 HP	10 HP	15 HP	20 HP
200V	25A	50A	80A	80A	100A	100A
230V	25A	25A	50A	80A	80A	100A
380-415V	15A	15A	25A	25A	50A	50A
460V	15A	15A	25A	25A	50A	50A
575V	20A	20A	20A	20A	30A	30A
FUSES ARE CLASS J - FAST ACTING						

NOTES:

1. ALL FUSES ARE RATED FOR 600VAC

DESIGNER: R JOHNSON	TRANE® THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED OR ITS CONTENTS DISCLOSED TO OUTSIDE PARTIES WITHOUT THE WRITTEN CONSENT OF TRANE.	IPAK 1			
ENGINEER: S MCKINLEY		COMPONENT LAYOUT			
TRANE © DATE: 4 FEB 2022		20-75T MAIN C-BOX FUSE REPLACEMENT TABLES			
REPLACES:					
SIMILAR TO:					
REVISION DATE: 3 FEB 2022					
REVISED BY: R JOHNSON					
APPROVED BY: S MCKINLEY		MASTER NUMBER:	DRAWING NUMBER:	SHEET:	REV
CAD SYSTEM USED: CREO SCHEMATICS					
			12134387	15 OF 17	B