



Duplex controller
without alternator
NEMA controller size 1
3-Phase, 3-Pole Maximum voltage rating 600VAC
Max Hp 60Hz: 2@200V; 2@230V; 5@460V; 5@575V
Solid-state overload relay(s) with 3–12A range
Control voltage 240VAC 50Hz / 277VAC 60Hz
NEMA Type 12 enclosure

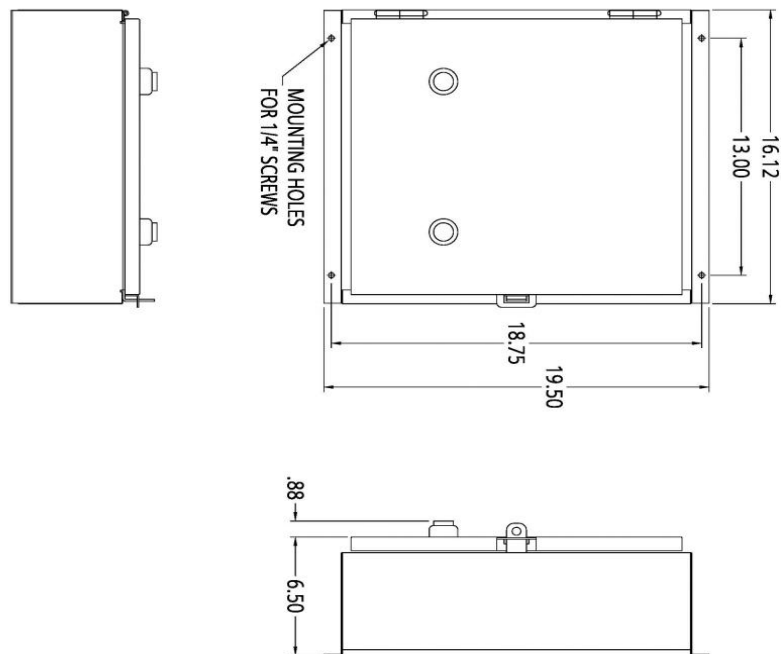


Image is representative and may not depict the actual product.

General technical data:	
Weight	40 lb
Height x Width x Depth	20 x 16 x 6 in.
Finger-safe (main circuit / control circuit)	NA / NA
Maximum altitude	6560 ft
Ambient storage temperature	(-30 to 65)°C / (-22 to 149)°F
Ambient operating temperature	(-20 to 40)°C / (-4 to 104)°F
Humidity (% non-condensing)	(no data)
Rated impulse voltage resistance	(no data)
Rated insulation voltage	(no data)
Country of origin	USA
Contactor (each):	
Number of NO main contacts	3
Amp rating	27A
Mechanical operating cycles	10,000,000
Internal/standard auxiliary contact (per contactor):	
Number of NC / NO auxiliary contacts	0NC / 1NO
Rating	10A@600VAC (A600), 5A@600VDC (P600)
Optional auxiliary contact (per contactor):	
Max number of NC / NO auxiliary contacts	8 total
Rating	10A@600VAC (A600), 5A@600VDC (P600)
Coil (per contactor):	
Voltage	240VAC 50Hz / 277VAC 60Hz Coil
Sealed watts	8.6W
Inrush / sealed power	218 / 25 VA
Normal coil operating limits (% of rated voltage)	85% - 110%
Typical drop-out volts (% of rated voltage)	50%
Pick-up time / Drop-out time	19-29 / 10-24 msec
Overload Relay (each):	
Current range	3–12A
Trip Class	Class 5 / 10 / 20 (factory set) / 30
Trip detection	Overload, phase failure, phase unbalance, ground fault
Phase failure sensitivity	Trip time after phase-loss: < 3 sec
Repeat accuracy	Within 1%
Reset options	Manual, automatic and remote
External reset	Yes
Test function	Electronics & manual actuation
Conformal coating on printed circuit board	Yes
Number of NC / NO auxiliary contacts	1NC / 1NO
Rating of auxiliary contacts	5A@600VAC (B600), 1A@250VDC (R300)
Single contact isolation	600V

Dual contact isolation	300V differing polarity / 600V common polarity
Enclosure:	
Type	NEMA Type 12 enclosure
Rating	Dust tight and drip proof for indoors
Mounting/wiring:	
Mounting orientation	Vertical
Mounting type	Surface
Line side connection type / torque	Screw / 35 lb-in.
Line side solid & stranded conductors	Screw / 35 lb-in.
Load side connection type / torque	1x(14 - 2 AWG) 75°C AL or CU
Load side solid & stranded conductors	Screw / 5 lb in. - 12 lb in.
Coil connection type / torque	2 x (16 - 12 AWG) CU 60/75°C
Coil solid & stranded conductors	Screw / 10 - 15 lb-in
Main auxiliary contact connection type / torque	1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG) 75°C CU
Main auxiliary contact solid & stranded conductors	Screw / 7 lb in. - 10 lb in.
OLR auxiliary contact connection type / torque	2 x (20 - 14 AWG) CU 60/75°C
OLR auxiliary contact solid & stranded conductors	
Short circuit current rating:	10kA@600V (Class H or K); 100kA@600V (Class R or J)
Fuses	14kA@240V; 10kA@600V
Thermal Magnetic Circuit Breaker	
Certificates/approvals:	UL (file no. E14900)
	cUL (file no. E14900 for Canada)
	CSA (file no. 006535 C 000)
	ISO 9001 certification
Additional information:	Brochure
	OLR instruction sheet & trip curves

OUTLINE 20x16x6 NEMA 4/4X/12



DIMENSIONS ARE IN INCHES.
FILE NAME: SFIS-D70690001-0211

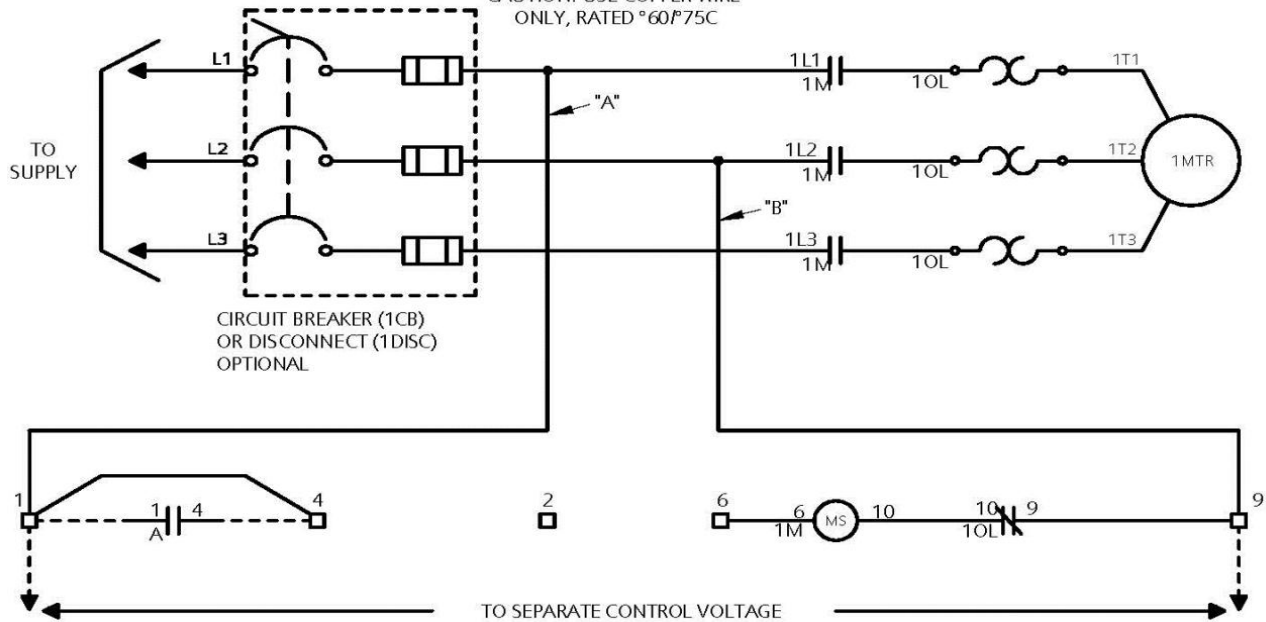
SCHEMATIC DIAGRAM

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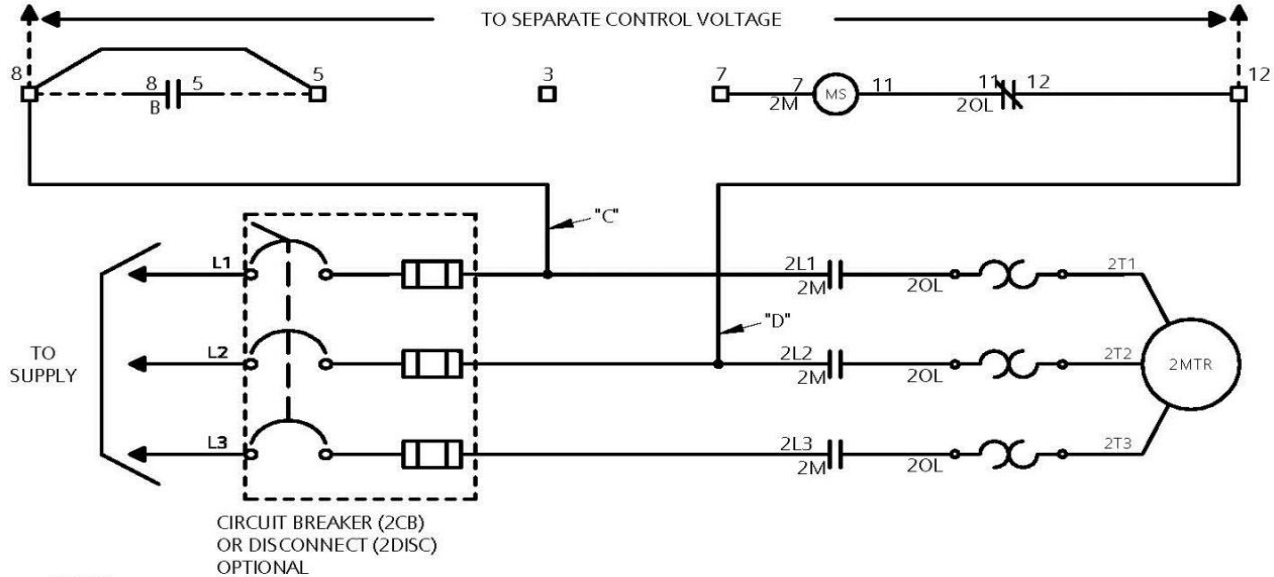
Class 83 & 84 Duplex W/Manual Alternation Size 0-4

ELEMENTARY DIAGRAM

CAUTION: USE COPPER WIRE
ONLY, RATED 60/75C



A AND B ARE FLOAT OR PRESSURE
SWITCHES, A TO CLOSE BEFORE B. FOR
FIELD CONNECTIONS, REMOVE JUMPERS
BETWEEN TERMINALS 1-4, 8-5.



NOTES:

- FOR SEPARATE OR CPT CONTROL VOLTAGE SOURCE, REMOVE JUMPERS "A", "B", "C", AND "D" AND CONNECT PER DOTTED LINES OR TO 1 AND 2 CPT PRIMARIES PER FACTORY OR FIELD MODIFICATIONS.
- FOR PROTECTION OF INTERNAL CONTROL CIRCUIT CONDUCTORS IN ACCORDANCE WITH THE N.E.C., USE FUSE KIT 49MAFB4.
- TO USE THIS CONTROLLER W/O SELECTOR SWITCHES, JUMPER BETWEEN THE FOLLOWING PAIRS OF TERMINALS 4-6, 5-7.

REF. D68077003