

**NEMA Size 2 Type S Combination Motor Controller w/
Disconnect Switch or Circuit Breaker**
Short Circuit Current Rating: 5,000 rms Symmetrical A, 600 V Max.

3" x 8.375"

⚠ DANGER

HAZARDOUS VOLTAGE.

Turn OFF disconnect switch or circuit breaker before working on this equipment. Turn OFF power ahead of this equipment before servicing disconnect switch or circuit breaker.
Electrical shock will cause severe injury or death.

⚠ CAUTION

OVERCURRENT HAZARD.

Follow manufacturer's guidelines for selection of thermal units. Inadequate overcurrent protection may result in equipment damage.

ADJUSTMENT: Verify choice and setting of circuit breaker with motor nameplate full load current. Adjustable circuit breakers are factory adjusted to minimum settings. After installation, adjust to lowest value that will not result in nuisance tripping, but in no case exceed 13 times motor full-load current.

After proper adjustment, tripping of circuit breaker indicates interruption of a fault current. For continued protection against fire/shock hazard, examine current-carrying parts of combination motor controller and replace if damaged. If burnout of a thermal unit occurs in a bimetallic overload relay, the complete relay block must be replaced. Burnout of a thermal unit in a melting alloy overload relay requires only replacement of the thermal unit.

SEPARATE CONTROL: Control circuit conductors require overcurrent protection in accordance with applicable electrical codes.

COMMON CONTROL: Controllers without a factory-installed control transformer require additional overcurrent devices rated 20 A or less to protect factory-installed control circuit conductors, unless branch circuit protective device rating or trip setting does not exceed 80 A. User-installed control circuit conductors may also require additional overcurrent protection to comply with applicable codes. Class 9999 Type SF4 and SFR4 fuseholder kits are available to allow compliance.

ACCESSORIES AND REPLACEMENT KITS:

Coils for Magnetic Starter			
60 Hz		50 Hz	
Voltage	Coil No.	Voltage	Coil No.
24	31063-409-16	24	31063-409-17
120	31063-409-38	110	31063-409-38
208	31063-409-44	—	—
240	31063-409-47	220	31063-409-47
277	31063-409-49	—	—
380	31063-409-53	380	31063-409-54
480	31063-409-57	440	31063-409-57
600	31063-409-60	550	31063-409-60

Replacement Contacts for 3-Pole Mag. Starter: Size 2 – Class 9998 Type SL4

Replacement Control Transformers – Standard Capacity		
Class 9070 Type K100	100 VA @ 60 Hz	Specify primary and secondary voltage on order.
Class 9070 Type G02	100 VA @ 60 Hz	

Replacement Disconnect Switch: 31055-494-53 or 31055-498-50

Replacement Fuse Block (less clips): 30015-059-51

Replacement Fuse Clip Kits for 3-Pole Fuse Block		
Clip Size	250 V Class H [1]	600 V Class H [1]
30 A	Class 9999 Type S1	Class 9999 Type S2
60 A	Class 9999 Type S2	Class 9999 Type S3
100 A	Class 9999 Type S4	Class 9999 Type S4

[1] For Class R, specify SR.

Replacement Circuit Breakers (3-Pole)					
Instantaneous Trip MAG-GARD® Circuit Breakers			Thermal-Mag. Circuit Breakers		
600 V			240 V	600 V	
Rating	Part No.	Trip Range	Rating	Part No.	Part No.
15 A	FAL36015-13M	50-180 A	35 A	FAL 32035	FAL 36035
30 A	FAL36030-15M	100-350 A	40 A	FAL 32040	FAL 36040
50 A	FAL36050-16M	150-580 A	45 A	FAL 32045	FAL 36045
100 A	FAL36100-18M	300-1100 A	50 A	FAL 32050	FAL 36050
			60 A	FAL 32060	FAL 36060
			70 A	FAL 32070	FAL 36070
			80 A	FAL 32080	FAL 36080

Other Class 9999 accessories may be installed. See Square D Digest for Type numbers and descriptions. Also see bulletin 279AS for starter, 464AS or 30072-009-74 for disconnect switch and 284AS or 30006-284-01 for circuit breaker.

PLEASE NOTE: Electrical equipment should be serviced only by qualified electrical maintenance personnel, and this document should not be viewed as sufficient instruction for those who are not otherwise qualified to operate, service or maintain the equipment discussed. Although reasonable care has been taken to provide accurate and authoritative information in this document, no responsibility is assumed by Square D for any consequences arising out of the use of this material.

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