



SQUARE D Instruction Bulletin

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**NEMA Size 3 Type S Combination Motor Controller w/
Disconnect Switch or Circuit Breaker**
Short Circuit Current Rating 5,000 rms Symmetrical A, 600 V Max.

DANGER

HAZARDOUS VOLTAGE.

Turn OFF disconnect switch before installing or removing fuses. Turn OFF power ahead of this controller before working on equipment.

Electrical shock will cause severe injury or death.

CAUTION

OVERCURRENT HAZARD.

Follow manufacturer's guidelines for selection of thermal units and circuit breaker setting.

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 the 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. 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	31074-400-16	24	31074-400-17
120	31074-400-38	110	31074-400-38
208	31074-400-44	—	—
240	31074-400-47	220	31074-400-47
277	31074-400-49	—	—
—	—	380	31074-400-54
480	31074-400-57	440	31074-400-57
600	31074-400-60	550	31074-400-60

Replacement Contacts for 3-Pole Magnetic Starter: Size 3 – Class 9998 Type SL7

Replacement Control Transformers – Standard Capacity

Class 9070 Type K150 150 VA @ 60 Hz Specify pri. and sec. voltage on order.

Replacement Disconnect Switch: Part No. 31055-434-55

Replacement Unfused Disconnect Switch: Part No. 31055-433-50

Replacement Fuse Clip Kits for 3-Pole Fuse Block

Clip Size	250 V Class H	600 V Class H
100 A	Class 9999 Type S4	Class 9999 Type S4
200 A	Class 9999 Type S5	Class 9999 Type S5

Replacement Circuit Breakers (3-Pole, 600 V)

Instantaneous Trip MAG-GARD® Circuit Breakers			Thermal-Magnetic Circuit Breakers	
Rating	Part No.	Trip Range	Rating	Part No.
50 A	FAL36050-16M	150-580 A	60 A	FAL 36060
100 A	FAL36100-18M	300-1100 A	70 A	FAL 36070
			80 A	FAL 36080
			90 A	FAL 36090
			100 A	FAL 36100
			110 A	KAL 36110

Other Class 9999 accessories may be installed. See Square D Digest for Type numbers and descriptions. Also see bulletin 30072-013-01 for starter, 371 AS for disconnect switch and 50006-354-01 and 50006-354-02 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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4" x 10"