

Factory Modifications (Forms) For Full Voltage Contactors and Starters

Full Voltage Controllers Only

CLASSES 8538, 8539, 8738 and 8739

Factory Modifications		Enclosure Type	Form Letters
OVERLOAD RELAYS	Non-Compensated Bimetallic Overload Relays		
	Single Phase:		
	Types SB-SD (Sizes 0-2)Ⓜ	Any	B1
	Polyphase:		
	Two Element — For 2 Phase Only		
	Types SB-SD (Sizes 0-2)	Any	B1
	Three Element		
	Types SB-SD (Sizes 0-2)	Any	B2
	Types SE-SF (Sizes 3-4)	Any	B5
	Type SG (Size 5)	Any	B2Y500
	Type SH (Size 6)	Any	B2
	Ambient Compensated Bimetallic Overload Relays		
	Three Element		
	Types SB-SD (Sizes 0-2)	1, 4, 7, 9, 12	2B
	Types SE-SF (Sizes 3 & 4)	Any	Y59
	Type SG (Size 5)	Any	BY500
	Type SH (Size 6)	Any	B
	Overload Relays - General		
Substitute Class 9065 SSRO100			
For Standard Overload Protection	Any	B11	
Omit overload protection from combination starters. (Classes 8538, 8539, 8738, 8739 only)			
Do not use with MAG-GARD® Circuit Breakers.			
Deduct per starter	Any	Y76	
Modify Size 3 Type SE starters with melting alloy overload relays to accept Type FB quick trip or SB slow trip thermal units and Size 4 Type SF starters to accept Type FB quick trip thermal units. (Rejects Type CC standard trip thermal units.)	Any	Y81	
Substitute 9999 SO4 isolated alarm contact (N.O.) on melting alloy overload relay	Any	Y342	
Substitute 9999 SO5 isolated alarm contact (N.C.) on melting alloy overload relay	Any	Y344	

Ⓜ Size 7 uses a solid state overload relay as standard. See Class 8536 for complete details.
 Ⓜ Single phase bimetallic overload relays for Type S Sizes 0-2 require two (2) thermal units per starter.
 Ⓜ For Classes 8736, 8738 and 8739, Type SG, consult Local Square D Field Office.

Solid State Overload Relay Factory Modifications (Forms)

The solid state overload relay is available on NEMA Size 00-7.
 For Class 8536, 8538, 8539, 8736, 8738, 8739 and 8810 devices.

Form Description

Type S Starter with Motor Logic
 Solid State Overload Relay

- 1 - Motor Logic, Base Unit, Trip Class 10
- 2 - Motor Logic, Base Unit, Trip Class 20
- 3 - Motor Logic, Feature Base Unit
- 0 - No additional modifications
- 1 - N.O. Aux. Contact (Field Convertible to N.C.)

Special Overload/Contactor Size Combinations (Base Unit & Feature Base Units):
 (Must Be Specified On Size 00 Starter Orders)

- Blank - Overload Matched to Starter Size (i.e. Size 1 contactor & 9-27A overload)
- 0 - A 6 - 18A overload on a starter size as indicated by the Starter Catalog Number
- 1 - A 9 - 27A overload on a starter size as indicated by the Starter Catalog Number
- 2 - A 15 - 45A overload on a starter size as indicated by the Starter Catalog Number
- 3 - A 30 - 90A overload on a starter size as indicated by the Starter Catalog Number
- 4 - A 45 - 135A overload on a starter size as indicated by the Starter Catalog Number
- 8 - A 1.5 - 4.5A overload on a starter size as indicated by the Starter Catalog Number (only offered on Feature Base Units)
- 9 - A 3 - 9A overload on a starter size as indicated by the Starter Catalog Number

SPECIAL NOTE FOR Class 8810 devices:
 You MUST SPECIFY TWO SEPARATE FORM NUMBERS TO GET MOTOR LOGIC OVERLOADS ON TWO SPEED STARTERS. The first form number is for the low speed winding and the second is for the high speed winding.
 EXAMPLE: Open Style, Size 4 Two Speed Starter with Motor Logic Overloads Required.
 Single Winding, 460V, Constant Horsepower
 High Speed FLA = 96A
 Low Speed FLA = 27A (use Size 2 Overload)

Catalog Number to Order: 8810 SF01V02 form S H20 H202
 Where: Form H20 is a Size 4 Contactor with a 45-135A Motor Logic Overload for the High Speed and form H202 is a 15-45A Motor Logic Overload on the low speed contactor.

Classes 8538, 8539, 8738 and 8739

Factory Modifications	Form
Motor Logic Solid State Overload	Base Unit, Trip Class 10 H10
	Base Unit, Trip Class 20 H20
	Feature Base Unit H30
Motor Logic Solid State Overload with Auxiliary Contact	Base Unit, Trip Class 10 H11
	Base Unit, Trip Class 20 H21
	Feature Base Unit H31

Special Starter Combinations with Motor Logic™ Overload Relay Protection

NEMA Contactor Size	Solid State Overload Relay Size							NEMA Contactor Size	Solid State Overload Relay Size						
	00B	00C	0	1	2	3	4		00B	00C	0	1	2	3	4
00	▲	Std.						2	▲	▲	▲	▲	Std.		
0	▲	▲	Std.					3	n/a	n/a	n/a	n/a	n/a	Std.	
1	▲	▲	▲	Std.				4	n/a	n/a	n/a	n/a	n/a	▲	Std.

▲ Possible factory starter combinations available.