

Accessories for Heavy Industrial NEMA Style Controls

Separate enclosures for addition of control circuit transformer, Control circuit transformers

Separate enclosures for addition of control circuit transformer

The Class 9991 enclosures listed below accept an open-type, Class 8502 or 8536 Type S, NEMA Size 0, 1, 1P or 2 contactor or starter, together with a fused-control circuit transformer (suffix F4T) to allow field assembly of enclosed controllers. In the cover of the Class 9991 Type SCG 1 enclosure, knock-outs are provided for field addition of Class 9999 cover-mounted control units. All other Class 8502 and 8536 enclosures include a panel with space and drilling for an open-type device and a fused control-circuit transformer. In addition, three closing plates are included in each cover for easy installation of Class 9001 Type K or SK control units. Oversized enclosures for open-type, Class 8903 Type L and LX and Type S (30 and 60 A), electrically and mechanically held lighting contactors include a panel with space and drilling for an open-type contactor and fused control-circuit transformer (suffix F4T) and/or an auxiliary relay for use with single-pole pilot devices (suffix R6). When an auxiliary relay is required, use a Class 8501 Type XO 11 relay. Three closing plates are provided as standard for easy installation of Class 9001 Type K or SK control units.

Note : a Class 9991 Type SCG 1, NEMA 1 separate enclosure can also be used for Class 8903 Type SMO (30 A) electrically held lighting contactor if suffix F4T (control transformer), with or without cover control units, is required.

For use with	Type	NEMA Size or current rating	Number of poles	Enclosure type (1)	Reference	Weight kg (lb)
Contactors (2)	8502 SAO/SBO/SCO	0, 1	1...5	NEMA 1	9991 SCG 1	3.6 (8)
				NEMA 12	9991 SCA 4	8.3 (18.2)
	8502 SDO	2	2...5	NEMA 1	9991 SDG 4	9.5 (21)
				NEMA 12	9991 SDA 4	10.4 (23)
Starters	8536 SAO/SBO/SCO	0, 1	1...5	NEMA 1	9991 SCG 1	3.6 (8)
				NEMA 12	9991 SCA 4	8.3 (18.2)
	8536 SDO	2	2...5	NEMA 1	9991 SDG 4	9.5 (21)
				NEMA 12	9991 SDA 4	10.4 (23)
Lighting contactors	8903 LO, 8903 LXO	30 A	All	NEMA 1	9991 SDG 3	6.8 (15)
				NEMA 12	9991 SDA 3	9.1 (20)
	8903 SMO	30 A	1...5	NEMA 1	9991 SDG 3	6.8 (15)
				NEMA 12	9991 SDA 3	9.1 (20)
8903 SPO	60 A	2...5	NEMA 1	9991 SDG 3	6.8 (15)	
			NEMA 12	9991 SDA 3	9.1 (20)	

Control circuit transformers

For use with	Type	NEMA Size or current rating	Number of poles	Transformer type	Reference	Weight kg (lb)		
Contactors (2)	8502 SAO/SBO/SCO	0, 1	1...3	Standard, 50 VA	9070 T50	–		
				Extra capacity, 100 VA	9070 T100 (3)	–		
				Extra capacity, 150 VA	9070 T150 (3)	–		
			4 and 5	Standard, 100 VA	9070 T100 (3)	–		
				Extra capacity, 150 VA	9070 T150 (3)	–		
				Extra capacity, 300 VA	9070 T300	–		
8502 SDO	2	2...5	Standard, 100 VA	9070 T100	–			
			Extra capacity, 150 VA	9070 T150	–			
			Extra capacity, 300 VA	9070 T300	–			
		Starters	8536 SAO/SBO/SCO	0, 1	1...3	Standard, 50 VA	9070 T50	–
						Extra capacity, 100 VA	9070 T100 (3)	–
						Extra capacity, 150 VA	9070 T150 (3)	–
8536 SDO	2	2...5	4 and 5	Standard, 100 VA	9070 T100 (3)	–		
				Extra capacity, 150 VA	9070 T150 (3)	–		
				Extra capacity, 300 VA	9070 T300	–		
		Lighting contactors	8903 LO	30 A	All	Standard, 50 VA	9070 T50	–
						Extra capacity, 100 VA	9070 T100 (3)	–
						Extra capacity, 150 VA	9070 T150 (3)	–
8903 LXO	30 A	1...3	4 and 5	Standard, 100 VA	9070 T100 (3)	–		
				Extra capacity, 150 VA	9070 T150 (3)	–		
				Extra capacity, 300 VA	9070 T300	–		
		8903 SMO	30 A	1...3	4 and 5	Standard, 100 VA	9070 T100	–
						Extra capacity, 150 VA	9070 T150	–
						Extra capacity, 300 VA	9070 T300	–
8903 SPO	60 A	2...5	4 and 5	Standard, 100 VA	9070 T100	–		
				Extra capacity, 150 VA	9070 T150	–		
				Extra capacity, 300 VA	9070 T300	–		

(1) NEMA 1: general purpose enclosure. NEMA 12: dust-tight and drip-tight industrial-use enclosure.

(2) For contactors (Class 8502), a separate closing plate is provided with each enclosure to replace the reset mechanism, with the exception of Class 9991 Type SCG 1, which requires a separate reset closing plate, Class 9999 Type SG2.

(3) For mounting in a 9991 SCG 1 enclosure, a Class 9991 Type S1 adapter bracket is also required.

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9991 SCG 1