

Separate Enclosures Class 9991—NEMA Type 3R, 4, 4x, and 12



Type SCW21

NEMA Type 4x Enclosure



Type SCA11

NEMA Type 12 Enclosure



Type SCW11

NEMA Type 4 Enclosure



Type SCH2

NEMA Type 3R Enclosure

Separate enclosures can be used with open style devices for field assembly of enclosed controls. These enclosures, plus the open style components, are equivalent to a factory-assembled device. Separate enclosures are to be used only with the equipment listed below:

- **NEMA Types 4 and 12, Class 9991, Separate Enclosures for Type S devices** are supplied as standard with closing plates. See the selection chart below for the specific number of closing plates on various enclosures. For applications requiring enclosures without closing plates, consult your local Schneider Electric representative.
- **NEMA Type 3R Enclosures** for field assembly of equipment for outdoor applications are provided with three closing plates, a reset mechanism, and a predrilled panel as standard. For conduit connection to the top of these enclosures, select watertight hubs from the listing on Digest 174 page 3–9 in accordance with applicable code requirements. Square D® brand NEMA Type 12 enclosures can also be modified for outdoor use. For details, refer to NEMA Type 12 enclosure modification information on page 4.

NOTE: Not for use in high-corrosive outdoor locations and/or sea coast environments.

- **NEMA Type 4X Enclosures for Type S devices, Sizes 0–2 and 30–60 A**, are provided as standard without closing plates. Cover-mounted control units for NEMA Type 4X separate enclosures are available as a factory modification only.

When closing plates are removed from NEMA Types 4, 12, and 3R enclosure covers, the openings can be used for easy installation of Class 9001 Type K or Type SK cover-mounted control units. Refer to page 13.

Table 1: Equipment Used with Separate Enclosures

For Use With		Enclosure Classification						
		NEMA Size or A Rating	NEMA Type 4X	NEMA Type 4 ¹		NEMA Type 12/3R		NEMA Type 3R
Class	Types (All Pole Arrangements)		Type	Type	Number of Closing Plates	Type	Number of Closing Plates	Type
Manual Starters								
2510	MBO, MCO	MO M1 M1P	MW1 ²	MW11	—	MA1	—	—
Magnetic Contactors								
8502 ³	SAO, SBO, SCO	00, 0, 1	SCW20	SCW11	2	SCA11	2	SCH2
	SDO	2	SDW20	SDW11	2	SDA11	2	SDH1
	SEO	3	SEW11	—	3	SEA11	3	SEH1
	SFO	4	—	SFW11	3	SFA11	3	SFH1
Magnetic Starters								
8536	SAO, SBO, SCO	00, 0, 1	SCW21	SCW11	2	SCA11	2	SCH2
	SDO	2	SDW21	SDW11	2	SDA11	2	SDH1
	SEO	3	SEW11 ⁴	—	3	SEA11 ⁴	3	SEH1
	SFO	4	—	SFW11 ⁴	3	SFA11 ⁴	3	SFH1
Lighting Contactors Non-Combination Electrically and Mechanically-held								
8903 ³	LO, LXO	20 A	SDW20	SDW11	2	SDA11	2	SDH1
	SMO	30 A	SCW20 ⁵	SCW11	2	SCA11	2	SCH2
	SPO	60 A	SCW20 ⁵	SDW11	2	SDA11	2	SDH1
	SQO	100 A	SEW11 ⁴	—	3	SEA11 ⁴	3	SEH1
	SVO	200 A	—	—	—	—	—	SFH1
Reversing and Two-Speed Horizontally Arranged Contactors and Starters								
8702 ³	SBO, SCO	0, 1	—	SCW12	—	SCA12	—	—
8736	SDO	2	—	SDW12	3	SDA12	3	—
8810	SBO & SCO	0, 1	—	SCW13	3	SCA13	3	—

¹ The standard cabinet has a brushed finish.

² Type MBO, Size MO only.

³ For contactors, replace reset assembly with proper closing plate; for NEMA Type 4 use Class 9001 Type K52, for NEMA Types 3R and 12 use Class 9001 Type K51. Class 9991 Types SCW20 and SDW20 are designed for contactors only, reset closing plates not required.

⁴ Enclosure suitable for starter with melting alloy overload and solid state overload relays only.

⁵ For electrically-held devices only.

Table 2: How to Order

To Order Specify:	Catalog Number	
• Class Number	Class	Type
• Type Number	9991	SCA11

Separate Enclosures Approximate Dimensions—Class 9991

Table 12: NEMA Type 4X – Watertight and Corrosion Resistant Enclosures

Class 9991 Type	For Use With				Dimensions (inches/millimeters) (see Figure 6)												Hub Dia.		Weight (lb)
	Class	Type	NEMA Size or A Rating	# Poles	A	B	C	D	E	F	G	H	I	J	K	L	W ¹	X ²	
SCW20	8903	SMO (E.H.)	30A	All															
	8502	SBO, SCO	0, 1	All	6.50 165	6.44 164	12.13 308	0.75 19	5.00 127	8.25 210	1.69 43	3.34 85	10.06 256	1.31 33	2.13 54	0.31 8	3/4"	1"	7
SCW21	8536	SBO, SCO	0, 1	All															
SDW20	8903	LO, LXO	20A	All															
	8903	SPO (E.H.)	60A	All	8.50 216	7.06 179	13.88 352	0.75 19	7.00 178	10.50 267	1.69 43	3.91 99	11.94 303	1.63 41	2.38 60	0.31 8	3/4"	1 1/2"	13
SDW21	8536	SDO	2	All															

Table 13: NEMA Type 4 – Watertight Enclosures (Standard)

Class 9991 Type	For Use With				Dimensions (inches/millimeters) (see Figure 6)												Hub Dia.		Weight (lb)
	Class	Type	NEMA Size or A Rating	No. of Poles	A	B	C	D	E	F	G	H	I	J	K	L	W ¹	X ²	
SCW11	8903	SMO	30 A	All	6.38 162	7.13 181	13.19 335	1.56 40	3.25 83	12.00 305	0.59 15	1.88 48	11.78 299	1.63 41	2.31 59	0.31 8	3/4"	1"	12
	8502	SBO, SCO	0, 1	All															
	8536	SBO, SCO	0, 1	All	6.38 162	7.81 198	13.19 335	1.56 40	3.25 83	12.00 305	0.59 15	1.88 48	11.78 299	1.63 41	2.31 59	0.31 8			
SDW11	8903	LO, LXO	20 A	All															
	8903	SPO	60 A	All	8.13 206	7.88 200	16.19 411	1.56 40	5.00 127	15.00 381	1.09 28	1.94 49	14.75 375	2.00 51	2.63 67	0.31 8	3/4"	1 1/2"	18
	8502	SDO	2	All															
	8536	SDO	2	All	8.13 206	8.56 217	16.19 411	1.56 40	5.00 127	15.00 381	1.09 28	2.88 73	14.75 375	2.00 51	2.63 67	0.31 8			
SEW11	8903	SQO	100 A	All	18.15 461	8.77 223	32.21 818	3.08 78	12.00 305	30.50 775	0.86 22	3.67 93	26.71 678	2.58 66	3.19 81	0.44 11			
	8502	SEO	3	All															
SFW11	8536	SEO	3	All	18.15 461	9.58 243	32.21 818	3.08 78	12.00 305	30.50 775	0.86 22	4.48 114	26.71 678	2.58 66	3.19 81	0.44 11	3/4"	2 1/2"	51
	8536	SFO	4	All															
SFW11	8502	SFO	4	All	18.15 461	8.77 223	32.21 818	3.08 78	12.00 305	30.50 775	0.86 22	3.67 93	26.71 678	2.58 66	3.19 81	0.44 11			

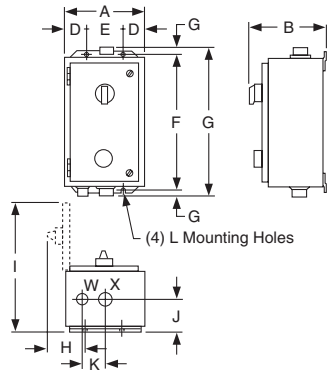
Table 14: NEMA Type 4 – Watertight Enclosures (Oversize)

Class 9991 Type	For Use With				Dimensions (inches/millimeters) (see Figure 7)												Hub Dia.		Weight (lb)
	Class	Type	NEMA Size or A Rating	No. of Poles	A	B	C	D	E	F	G	H	I	J	K	L	W ¹	X ²	
SCW2	8702 8736	SCO	1	All															
SCW3	8810	SBO SCO	0 1	All	12.63 321	7.81 198	14.69 373	2.56 65	7.50 191	13.50 343	0.59 15	3.88 98	18.41 468	1.66 42	2.31 59	0.31 8	3/4"	1"	23
SCW4	8502 8536	SBO, SCO (Form F4T)	0, 1	All															
SDW2	8702 8736	SDO	2	All															
SDW3	8903	LO, LXO SMO, SPO (Form F4T)	20 A 30 A 60 A	All	14.88 378	7.25 184	16.19 411	2.56 65	9.75 248	15.00 381	0.38 10	3.88 98	20.88 530	1.72 44	2.63 67	0.31 8	3/4"	1 1/2"	29
SDW4	8502 8536	SDO (Form F4T)	2	All															

¹ Bottom Only.

² Top and Bottom.

Figure 6



Dual Dimensions: INCHES
Millimeters

Figure 7

