

# Contactors and Starters

## Type S, NEMA-style

### Starters Class 8536

1

531008



8536 SAO 12 V02 H20

### 3-pole starters

NEMA Size	Standard power ratings of 3-phase motors 50/60 Hz								Continuous current ratings A	Enclosure type (1)	Basic reference Add code indicating control circuit voltage (2) and optional variants (3) and "H" code (4)	Weight kg (lb)
	Motor volts											
	200 V		230 V		460 V		575 V					
hp	kW	hp	kW	hp	kW	hp	kW					
00	1.5	1.1	1.5	1.1	2	1.5	2	1.5	9	Open NEMA 1 NEMA 12	8536 SAO 12 (2) (3) (4) 8536 SAG 12 (2) (3) (4) 8536 SBA 2 (2) (3) (4)	2 (4) 3 (8) 7 (16)
0	3	2.2	3	2.2	5	3.7	5	3.7	18	Open NEMA 1 NEMA 12	8536 SBO 2 (2) (3) (4) 8536 SBG 2 (2) (3) (4) 8536 SBA 2 (2) (3) (4)	2 (4) 4 (8) 7 (16)
1	7.5	5.5	7.5	5.5	10	7.5	10	7.5	27	Open NEMA 1 NEMA 12	8536 SCO 3 (2) (3) (4) 8536 SCG 3 (2) (3) (4) 8536 SCA 3 (2) (3) (4)	2 (4) 3 (8) 7 (16)
2	10	7.5	15	11	25	18.5	25	18.5	45	Open NEMA 1 NEMA 12	8536 SDO 1 (2) (3) (4) 8536 SDG 1 (2) (3) (4) 8536 SDA 1 (2) (3) (4)	3 (6.75) 7 (15.5) 10 (23)
3	25	18.5	30	22	50	37	50	37	90	Open NEMA 1 NEMA 12	8536 SEO 1 (2) (3) (4) 8536 SEG 1 (2) (3) (4) 8536 SEA 1 (2) (3) (4)	6 (14) 17 (37) 31 (68)
4	40	30	50	37	100	75	100	75	135	Open NEMA 1 NEMA 12	8536 SFO 1 (2) (3) (4) 8536 SFG 1 (2) (3) (4) 8536 SFA 1 (2) (3) (4)	8 (18) 25 (56) 33 (73)
5	75	55	100	75	200	150	200	150	270	Open NEMA 1 NEMA 12	8536 SGO 1 (2) (3) (4) 8536 SGG 1 (2) (3) (4) 8536 SGA 1 (2) (3) (4)	20 (45) 73 (160) 80 (177)
6	150	110	200	150	400	300	400	300	540	Open NEMA 1 NEMA 12	8536 SHO 2 (2) (3) (4) 8536 SHG 2 (2) (3) (4) 8536 SHA 2 (2) (3) (4)	32 (80) 105 (231) 106 (233)
7	-	-	300	220	600	450	600	450	810	Open NEMA 1 NEMA 12	8536 SJO 2 (2) (3) (4) 8536 SJG 2 (2) (3) (4) 8536 SJA 2 (2) (3) (4)	61 (135) 130 (287) 140 (309)

(1) Open: no enclosure ("O").

NEMA 1: General purpose enclosure ("G").

NEMA 12: Dust-tight and drip-tight industrial-use enclosure ("A").

(2) Standard control circuit voltage:

Volts	24	110	120	208	220	240	380	440	480	550	600
50 Hz	-	V02	-	-	V03	-	V05	V06	-	V07	-
60 Hz	V01	-	V02	V08	-	V03	-	-	V06	-	V07

24 V and 120 V coils require the addition of form "S" for separate control. Example: 8536 SAO 12 V01 H10S.

(3) For optional variants, see pages 1/10 to 1/13.

(4) To complete the "H" code for solid-state overload relays, see page 1/10.

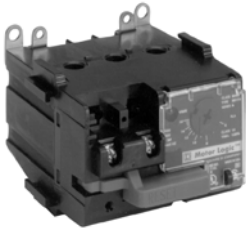
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### Variants – Motor Logic® Overload Relay

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551123



H10

#### Variants – Motor Logic solid-state overload relays

Type	For use on		Description	Overload relay range	Suffix to the starter reference (1)	Weight kg (lb)
	Class	Enclosure Type				
Motor Logic solid state overload relays (no additional auxiliary contact)	8536, 8736	Open, NEMA 1, NEMA 12	Base unit, trip class 10	(2)	H10	–
			Base unit, trip class 20	(2)	H20	–
			Feature unit	(2)	H30	–
Motor Logic solid state overload relays (with additional auxiliary contact)	8536, 8736	Open, NEMA 1, NEMA 12	Base unit, trip class 10	(2)	H11	–
			Base unit, trip class 20	(2)	H21	–
			Feature unit	(2)	H31	–

(1) Example: 8536 SAO 12 V01 H10.

(2) Standard current ranges, depending on contactor size:

Size	00	0	1	2	3	4	5	6	7
Current ranges A	3...9	6...18	9...27	15...45	30...90	40...135	90...270	180...540	270...810
								(3)	(4)

(3) Only available with feature unit.

(4) Only available with feature unit with auxiliary contact.

#### Associations

Contactor Size	Trip type	Motor Logic solid-state overload relays											
		No auxiliary contact		With auxiliary contact		No auxiliary contact		With auxiliary contact		No auxiliary contact		With auxiliary contact	
00	Class 10	Size 00C (3–9 A) H10   H11		Size 00B (1.5–4.5 A) H108   H118									
	Class 20	H20   H21		H208   H218									
	Class 10/20 (selectable)	H30   H31		H308   H318									
0	Class 10	Size 0 (6–18 A) H10   H11		Size 00C (3–9 A) H109   H119		Size 00B (1.5–4.5 A) H108   H118							
	Class 20	H20   H21		H209   H219		H208   H218							
	Class 10/20 (selectable)	H30   H31		H309   H319		H308   H318							
1	Class 10	Size 1 (9–27 A) H10   H11		Size 0 (6–18 A) H100   H110		Size 00C (3–9 A) H109   H119		Size 00B (1.5–4.5 A) H108   H118					
	Class 20	H20   H21		H200   H210		H209   H219		H208   H218					
	Class 10/20 (selectable)	H30   H31		H300   H310		H309   H319		H308   H318					
2	Class 10	Size 2 (15–45 A) H10   H11		Size 1 (9–27 A) H101   H111		Size 0 (6–18 A) H100   H110		Size 00C (3–9 A) H109   H119		Size 00B (1.5–4.5 A) H108   H118		–	–
	Class 20	H20   H21		H201   H211		H200   H210		H209   H219		H208   H218		–	–
	Class 10/20 (selectable)	H30   H31		H301   H311		H300   H310		H309   H319		H308   H318		H308	H318
3	Class 10	Size 3 (30–90 A) H10   H11											
	Class 20	H20   H21											
	Class 10/20 (selectable)	H30   H31											
4	Class 10	Size 4 (45–135 A) H10   H11		Size 3 (30–90 A) H103   H113									
	Class 20	H20   H21		H203   H213									
	Class 10/20 (selectable)	H30   H31		H303   H313									
5	Class 10	Size 5 (90–270 A) H10   H11											
	Class 20	H20   H21											
	Class 10/20 (selectable)	H30   H31											

Available codes

Not available