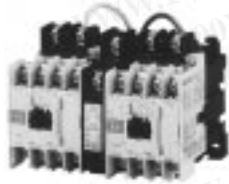


1-2 Selection Guide



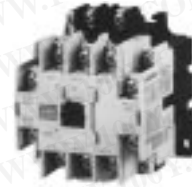
S-N11



S-2xN11



MSO-N12



S-N21



MSO-N35

Three-phase motor ratings IEC category AC3 kW(hp)	220-240V	2.5 (3-1/4)	3.5 (4-1/2)	3.5 (4-1/2)	4.5 (6)	5.5 (7-1/2)	5.5 (7-1/2)	7.5 (10)	11 (15)
	380-440V	4 (5-1/2)	5.5 (7-1/2)	5.5 (7-1/2)	7.5 (10)	11 (15)	11 (15)	15 (20)	18.5 (25)
	500V	4 (5-1/2)	5.5 (7-1/2)	5.5 (7-1/2)	7.5 (10)	11 (15)	11 (15)	15 (20)	18.5 (25)
	660V	4 (5-1/2)	5.5 (7-1/2)	5.5 (7-1/2)	7.5 (10)	7.5 (10)	7.5 (10)	11 (15)	15 (20)
Rated continuous current	lth A	20	20	20	25	32	32	50	60
Auxiliary contacts ¹	(standard)	1NO	1NO	1NO+1NC	-2	1NO+1NC	2NO+2NC	2NO+2NC	2NO+2NC
	(special)	1NC	1NC	2NO	—	2NO	—	—	—
Number of additional auxiliary contact block for ³	1NO + 1NC (front)	1	1	1	1	1	1	1	1
	1NO + 1NC (side)	2	2	—	—	2	2	2	2
	2NO + 2NC (front)	1	1	1	1	1	1	1	1
	Low level signal (front) [1NO+1NC] (+Standard 1NO + 1NC)]	1	1	1	1	1	1	1	1

Notes 1: Number of auxiliary contact shows that for non-reversing type. Twice of the auxiliary contacts are provided on reversing type.

2: (2NO + 2NC) × 2 auxiliary contacts are provided on reversing type and no additional contact can be mounted.

3: Front clip-on and side clip-on block should not both be mounted.

Contactors

AC operated models	Non-reversing	S-N10	S-N11	S-N12	S-N18	S-N20	S-N21	S-N25	S-N35
	Reversing	S-2xN10	S-2xN11	—	S-2xN18	S-2xN20	S-2xN21	S-2xN25	S-2xN35
DC operated models		—	SD-N11	SD-N12	—	—	SD-N21	—	SD-N35

Thermal Overload Relays¹

Three heater type with phase failure protection		TH-N12KP	TH-N18KP	TH-N20KP	TH-N20TAKP	
Two heater type		TH-N12	TH-N18	TH-N20	TH-N20TA	
Heater setting range A (Ordering designation)		0.1~0.16 (0.12A) 0.14~0.22 (0.17A) 0.2~0.32 (0.24A) 0.28~0.42 (0.35A) 0.4~0.6 (0.5A) 0.55~0.85 (0.7A) 0.7~1.1 (0.9A) 1~1.6 (1.3A) 1.4~2 (1.7A)	1.7~2.5 (2.1A) 2~3 (2.5A) 2.8~4.4 (3.6A) 4~6 (5A) 5.2~8 (6.6A) 7~11 (9A) 9~13 (11A) ²	1~1.6 (1.3A) 1.4~2 (1.7A) 1.7~2.5 (2.1A) 2~3 (2.5A) 2.8~4.4 (3.6A) 4~6 (5A) 5.2~8 (6.6A) 7~11 (9A) 9~13 (11A) 12~18 (15A)	0.2~0.32 (0.24A) 2~3 (2.5A) 0.28~0.42 (0.35A) 2.8~4.4 (3.6A) 4~6 (5A) 0.55~0.85 (0.7A) 5.2~8 (6.6A) 0.7~1.1 (0.9A) 7~11 (9A) 1~1.6 (1.3A) 9~13 (11A) 1.4~2 (1.7A) 12~18 (15A) 1.7~2.5 (2.1A) 16~22 (19A) ³	18~26 (22A) 24~34 (29A) 30~40 (35A) ⁴

Notes 1. Saturable reactors for thermal overload relays are available as a kit or equipped with the relay.

The suffix "SR" following the model name of the relay indicates "with saturable reactor". (ex. TH-N20KPSR*5A) (Except for type TH-N12KP, TH-N18 and TH-N18KP)

2. Except for size N10.

3. For size N20 & N21 only.

4. For size N35 only.

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