

Standard type non-reversing contactors and starters

Up to 315kW 440 Volts 3-phase
 (440kW for contactor only)

Description

The starter consists of a magnetic contactor and a thermal overload relay and is designed for the full voltage starting of 3-phase induction motor.

Standards

- Meet the requirements of BS, NEMA, IEC, VDE and JIS.
- The SC series contactors have already been approved by NK, LR, BV for marine use, UL, CSA and TÜV. These contactors can be used universally because of their high efficiency and reliability and are completely safe. Their maximum rated voltage is 660V AC.

Features

SC-03 to SC-5-1

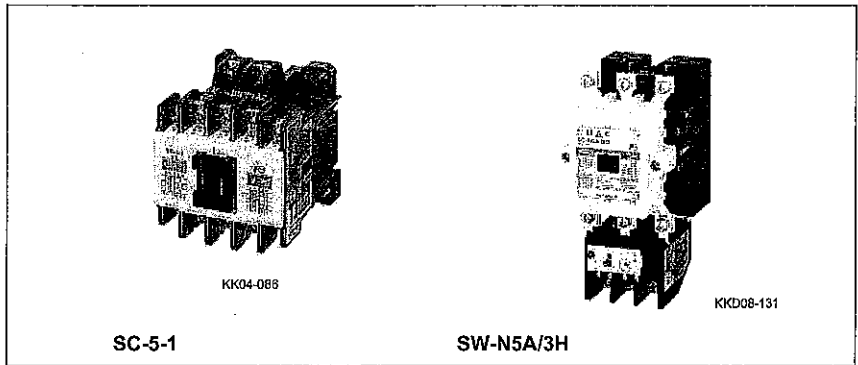
- Small frame contactors have such options as additional auxiliary blocks, operation counter unit with snap-on fittings, and coil surge suppressors. Modification can be made quickly and easily on site.
- Bifurcated type auxiliary contacts have a high degree of contact reliability. They can be used in low level circuit of 5V, 3mA.
- Type and rating are indicated on the front of contactor.

Contactors with single button auxiliary contacts (SC-03H to N12H)
 See page 01/64

Types and ratings

Max. motor capacity (kW)	Rated operation current (A)		Rated thermal current (A)	Auxiliary contact		Contactor		Starter (3-element)			
	200V	380V		NO	NC	Open Type	Ordering code	Open Type	Ordering code	Enclosed Type	Ordering code
	240V	440V									
2.5	4	11	9	20	1	-*	SC-03 SC11AA-10	SW-03/3H SC11AAAN-10T□□	SW-03C/3H SC11CAAN-10T□□		
3.5	5.5	13	12	20	1	-**	SC-0 SC13AA-10	SW-0/3H SC13AAAN-10T□□	SW-0C/3H SC13CAAN-10T□□		
3.5	5.5	13	12	20	1	1**	SC-05 SC14AA-11	SW-05/3H SC14AAAN-11T□□	SW-05C/3H SC14CAAN-11T□□		
4.5	7.5	18	16	25	1	-**	SC-4-0 SC18AA-10	SW-4-0/3H SC18AAAN-10T□□	SW-4-0C/3H SC18CAAN-10T□□		
5.5	11	22	22	32	1	-**	SC-4-1 SC19AA-10	SW-4-1/3H SC19AAAN-10T□□	SW-4-1C/3H SC19CAAN-10T□□		
5.5	11	22	22	32	1	1**	SC-5-1 SC20AA-11	SW-5-1/3H SC20AAAN-11T□□	SW-5-1C/3H SC20CAAN-11T□□		
7.5	15	32	32	50	2	2	SC-N1 SC25BAA-22	SW-N1/3H SC25BAAN-22T□□	SW-N1C/3H SC25BCAN-22T□□		
11	18.5	40	40	60	2	2	SC-N2 SC35BAA-22	SW-N2/3H SC35BAAN-22T□□	SW-N2C/3H SC35BCAN-22T□□		
15	22	50	50	80	2	2	SC-N2S SC50BAA-22	SW-N2S/3H SC50BAAN-22T□□	SW-N2SC/3H SC50BCAN-22T□□		
18.5	30	65	65	100	2	2	SC-N3 SC65BAA-22	SW-N3/3H SC65BAAN-22T□□	SW-N3C/3H SC65BCAN-22T□□		
22	40	80	80	135	2	2	SC-N4 SC80BAA-22	SW-N4/3H SC80BAAN-22T□□	SW-N4C/3H SC80BCAN-22T□□		
30	55	105	105	150	2	2	SC-N5A SC93CAA-22	SW-N5A/3H SC93CAAN-22T□□	SW-N5AC/3H SC93CCAN-22T□□		
37	60	125	125	150	2	2	SC-N6 SC1CBAA-22	SW-N6/3H SC1CBAAN-22T□□	SW-N6C/3H SC1CBCAN-22T□□		
45	75	150	150	200	2	2	SC-N7 SC1FBAA-22	SW-N7/3H SC1FBAAN-22T□□	SW-N7C/3H SC1FBCAN-22T□□		
55	90	180	180	260	2	2	SC-N8 SC1JBAA-22	SW-N8/3H SC1JBAAN-22T□□	SW-N8C/3H SC1JBCAN-22T□□		
65	110	220	220	260	2	2	SC-N10 SC2CBAA-22	SW-N10/3H SC2CBAAN-22T□□	SW-N10C/3H SC2CBCAN-22T□□		
90	160	300	300	350	2	2	SC-N11 SC3ABAA-22	SW-N11/3H SC3ABAAN-22T□□	SW-N11C/3H SC3ABCAN-22T□□		
120	220	400	400	450	2	2	SC-N12 SC4ABAA-22	SW-N12/3H SC4ABAAN-22T□□	SW-N12C/3H SC4ABCAN-22T□□		
180	315	600	600	660	2	2	SC-N14 SC6ABAA-22	SW-N14/3H SC6ABAAN-22T□□	SW-N14C/3H SC6ABCAN-22T□□		
220	440	800	800	800	2	2	SC-N16 SC8ABAA-22				

Notes : 1. ■ : Coil voltage code, □ : Thermal overload relay ampere setting range code, see page 01/19.
 2. * Auxiliary contact 1NC is available. ** Auxiliary contact 2NC or 2NC is available.
 ** Auxiliary contact 2NO, 2NC, or 2NO+2NC is available. For enclosed type, 2NO+2NC is not available.
 3. Auxiliary contact 4NO+4NC is available on request for frame size N1 and above.
 4. Contactor with enclosure is also available.



SC-N1 to SC-N16

- Adoption of improved contact material and arc-extinguishing grid permits further improvement in breaking efficiency.
- Type and rating are indicated on the front of contactor.
- Auxiliary contact arrangements are available up to 4NO+4NC.
- Can be mounted on 35mm rails to meet the requirements of IEC Standards. (SC-N1 to N3)
- Bifurcated type auxiliary contacts have a high degree of contact reliability. They can be used in low level circuit of 5V, 3mA.(SC-N1 to N12)

SUPER MAGNET(SC-N6 to SC-N16)

- The electronically-controlled SUPER MAGNET has an IC built into the coil circuit. Its operation is based on the "AC input, DC operated" concept.
- Operate on both AC and DC power supply. The operating voltage range has been greatly expanded.

- Coil burning and contact chattering due to voltage fluctuation have been eliminated.
- A built-in surge suppression device prevents surges from occurring on ON-OFF operations.

Thermal overload relays

- Superior protection
- The starter is fitted with a TR type thermal overload relay which features ambient temperature compensation, auto-manual resetting, and trip indicator.
- Alarm contacts are available in 1NO+1NC arrangements.
- Optional operation indicating lamp can be fitted on request.

Thermal overload relays :
 See page 01/88.

Auxiliary contact ratings :
 See page 01/20.

Performance data :
 See page 01/22.

Coil ratings : See page 01/22.