

# Magnetic Contactors and Starters

## UL and CSA approved

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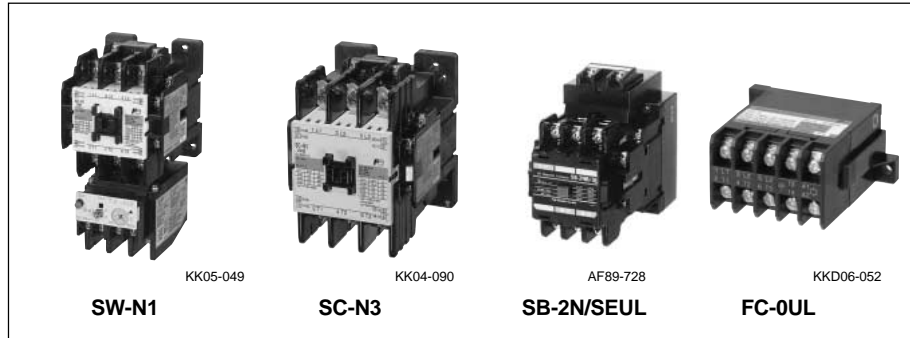
Up to 300HP 240V AC, 3-phase

#### ■ Description

FUJI high quality contactors and starters conform to UL and CSA requirements as they are.

These have high standards of efficiency and safety and are being used throughout the world. We can recommend them with confidence.

Other advantages are that they take up less installation space, are easily installed and can replace other starters without trouble because of their compact size.



#### ■ Ordering information

Specify the following:

1. Ordering code

2. Overload relay setting range code

3. Operating coil voltage code

UL [File No. E42419, E44592], CSA [File No. LR20479]

#### Non reversing contactors (Open type)

Frame size	Max. motor capacity (HP)				Rated continuous current	Aux. contact NO NC	AC operated			DC operated		
	200V 240V	220V 480V	440V 600V	550V 600V			Type	Ordering code		Type	Ordering code	
03	2	2	5	5	11A	1 - <sup>1</sup>	<b>SC-03</b>	SC11AA-■10	●	<b>SC-03/G</b>	SC11AG-■10	●
0	3	3	5	5	13A	1 - <sup>1</sup>	<b>SC-0</b>	SC13AA-■10	●	<b>SC-0/G</b>	SC13AG-■10	●
05	3	3	5	5	13A	1 1 <sup>2</sup>	<b>SC-05</b>	SC14AA-■11	●	<b>SC-05/G</b>	SC14AG-■11	●
4-0	5	5	7.5	7.5	20A	1 - <sup>1</sup>	<b>SC-4-0</b>	SC18AA-■10	●	<b>SC-4-0/G</b>	SC18AG-■10	●
4-1	5	5	10	10	20A	1 - <sup>1</sup>	<b>SC-4-1</b>	SC19AA-■10	●	<b>SC-4-1/G</b>	SC19AG-■10	●
5-1	5	5	10	10	20A	1 1 <sup>3</sup>	<b>SC-5-1</b>	SC20AA-■11	●	<b>SC-5-1/G</b>	SC20AG-■11	●
N1	7.5	10	25	25	50A	2 2 <sup>4</sup>	<b>SC-N1</b>	SC25BAA-■22	●	<b>SC-N1/G</b>	SC25BAG-■22	●
N2	10	15	30	30	60A	2 2 <sup>4</sup>	<b>SC-N2</b>	SC35BAA-■22	●	<b>SC-N2/G</b>	SC35BAG-■22	●
N2S	15	20	40	40	80A	2 2 <sup>4</sup>	<b>SC-N2S</b>	SC50BAA-■22	●	<b>SC-N2S/G</b>	SC50BAG-■22	●
N3	20	25	50	50	100A	2 2 <sup>4</sup>	<b>SC-N3</b>	SC65BAA-■22	●	<b>SC-N3/G</b>	SC65BAG-■22	●
N4	25	30	60	60	135A	2 2 <sup>4</sup>	<b>SC-N4</b>	SC80BAA-■22	●	<b>SC-N4/G</b>	SC80BAG-■22	●
N5	30	30	60	75	150A	2 2 <sup>4</sup>	<b>SC-N5A</b>	SC93CAA-■22	●	<b>SC-N5/G</b>	SC93BAG-■22	●
N6	40	40	75	100	150A	2 2 <sup>4</sup>	<b>SC-N6</b>	SC1CBAA-■22	●	<b>SC-N6</b>	SC1CBAA-■22	●
N7	50	50	100	125	200A	2 2 <sup>4</sup>	<b>SC-N7</b>	SC1FBAA-■22	●	<b>SC-N7</b>	SC1FBAA-■22	●
N8	60	60	150	150	260A	2 2 <sup>4</sup>	<b>SC-N8</b>	SC1JBAA-■22	●	<b>SC-N8</b>	SC1JBAA-■22	●
N10	75	75	150	200	260A	2 2 <sup>4</sup>	<b>SC-N10</b>	SC2CBAA-■22	●	<b>SC-N10</b>	SC2CBAA-■22	●
N11	100	100	200	250	350A	2 2 <sup>4</sup>	<b>SC-N11</b>	SC3ABAA-■22	●	<b>SC-N11</b>	SC3ABAA-■22	●
N12	125	150	300	350	450A	2 2 <sup>4</sup>	<b>SC-N12</b>	SC4ABAA-■22	●	<b>SC-N12</b>	SC4ABAA-■22	●
N14	200	200	500	600	660A	2 2 <sup>4</sup>	<b>SC-N14</b>	SC6ABAA-■22	●	<b>SC-N14</b>	SC6ABAA-■22	●
N16	250	300	600	700	800A	2 2 <sup>4</sup>	<b>SC-N16</b>	SC8ABAA-■22	●	<b>SC-N16</b>	SC8ABAA-■22	●
N1	7.5	10	25	25	50A	2 2 <sup>4</sup>	<b>SC-N1/SE</b>	SC25BAS-■22	●	<b>SC-N1/SE</b>	SC25BAS-■22	●
N2	10	15	30	30	60A	2 2 <sup>4</sup>	<b>SC-N2/SE</b>	SC35BAS-■22	●	<b>SC-N2/SE</b>	SC35BAS-■22	●
N2S	15	20	40	40	80A	2 2 <sup>4</sup>	<b>SC-N2S/SE</b>	SC50BAS-■22	●	<b>SC-N2S/SE</b>	SC50BAS-■22	●
N3	20	25	50	50	100A	2 2 <sup>4</sup>	<b>SC-N3/SE</b>	SC65BAS-■22	●	<b>SC-N3/SE</b>	SC65BAS-■22	●
N4	25	30	60	60	135A	2 2 <sup>4</sup>	<b>SC-N4/SE</b>	SC80BAS-■22	●	<b>SC-N4/SE</b>	SC80BAS-■22	●

Notes: ● Available  
■ Coil voltage code

<sup>1</sup> Auxiliary contact 1NC is available on request.

<sup>2</sup> Auxiliary contact 2NO or 2NC is available on request.

<sup>3</sup> Auxiliary contact 2NO or 2NC or 2NO+2NC is available on request.

<sup>4</sup> Auxiliary contact 4NO+4NC is available on request for frame sizes N1 and above.

**Non reversing starters (Open type)**

Frame size	Max. motor capacity (HP)				Aux. contact NO NC	AC operated			DC operated		
	200V	220V 240V	440V 480V	550V 600V		Type	Ordering code	UL/CSA	Type	Ordering code	UL/CSA
03	2	2	5	5	1 - *1	<b>SW-03/3H</b>	SC11AAN-■10T□D	●	<b>SW-03/G3H</b>	SC11AGN-■10T□D	●
0	3	3	5	5	1 - *1	<b>SW-0/3H</b>	SC13AAN-■10T□D	●	<b>SW-0/G3H</b>	SC13AGN-■10T□D	●
05	3	3	5	5	1 1 *2	<b>SW-05/3H</b>	SC14AAN-■11T□D	●	<b>SW-05/G3H</b>	SC14AGN-■11T□D	●
4-0	5	5	7.5	7.5	1 - *1	<b>SW-4-0/3H</b>	SC18AAN-■10T□D	●	<b>SW-4-0/G3H</b>	SC18AGN-■10T□D	●
4-1	5	5	10	10	1 - *1	<b>SW-4-1/3H</b>	SC19AAN-■10T□D	●	<b>SW-4-1/G3H</b>	SC19AGN-■10T□D	●
5-1	5	5	10	10	1 1 *3	<b>SW-5-1/3H</b>	SC20AAN-■11T□D	●	<b>SW-5-1/G3H</b>	SC20AGN-■10T□D	●
N1	7.5	10	25	25	2 2 *4	<b>SW-N1/3H</b>	SC25BAAN-■22T□D	●	<b>SW-N1/G3H</b>	SC25BAGN-■10T□D	●
N2	10	15	30	30	2 2 *4	<b>SW-N2/3H</b>	SC35BAAN-■22T□D	●	<b>SW-N2/G3H</b>	SC35BAGN-■10T□D	●
N2S	15	20	40	40	2 2 *4	<b>SW-N2S/3H</b>	SC50BAAN-■22T□D	●	<b>SW-N2S/G3H</b>	SC50BAGN-■10T□D	●
N3	20	25	50	50	2 2 *4	<b>SW-N3/3H</b>	SC65BAAN-■22T□D	●	<b>SW-N3/G3H</b>	SC65BAGN-■10T□D	●
N4	25	30	60	60	2 2 *4	<b>SW-N4/3H</b>	SC80BAAN-■22T□	●	<b>SW-N4/G3H</b>	SC80BAGN-■22T□D	●
N5	30	30	60	75	2 2 *4	<b>SW-N5A/3H</b>	SC93CAAN-■22T□	●	<b>SW-N5/G3H</b>	SC93BAGN-■22T□D	●
N6	40	40	75	100	2 2 *4	<b>SW-N6/3H</b>	SC1CBAAN-■22T□	●	<b>SW-N6/3H</b>	SC1CBAAN-■22T□	●
N7	50	50	100	125	2 2 *4	<b>SW-N7/3H</b>	SC1FBAAN-■22T□	●	<b>SW-N7/3H</b>	SC1FBAAN-■22T□	●
N8	60	60	150	150	2 2 *4	<b>SW-N8/3H</b>	SC1JBAAN-■22T□	●	<b>SW-N8/3H</b>	SC1JBAAN-■22T□	●
N10	75	75	150	200	2 2 *4	<b>SW-N10/3H</b>	SC2CBAAN-■22T□	●	<b>SW-N10/3H</b>	SC2CBAAN-■22T□	●
N11	100	100	200	250	2 2 *4	<b>SW-N11/3H</b>	SC3ABAAN-■22T□	●	<b>SW-N11/3H</b>	SC3ABAAN-■22T□	●
N12	125	150	300	350	2 2 *4	<b>SW-N12/3H</b>	SC4ABAAN-■22T□	●	<b>SW-N12/3H</b>	SC4ABAAN-■22T□	●
N14	200	200	500	600	2 2 *4	<b>SW-N14/3H</b>	SC6ABAAN-■22T□	●	<b>SW-N14/3H</b>	SC6ABAAN-■22T□	●
N1	7.5	10	25	25	2 2 *4	<b>SW-N1/SE3H</b>	SC25BASN-■22T□	●	<b>SW-N1/SE3H</b>	SC25BASN-■22T□	●
N2	10	15	30	30	2 2 *4	<b>SW-N2/SE3H</b>	SC35BASN-■22T□	●	<b>SW-N2/SE3H</b>	SC35BASN-■22T□	●
N2S	15	20	40	40	2 2 *4	<b>SW-N2S/SE3H</b>	SC50BASN-■22T□	●	<b>SW-N2S/SE3H</b>	SC50BASN-■22T□	●
N3	20	25	50	50	2 2 *4	<b>SW-N3/SE3H</b>	SC65BASN-■22T□	●	<b>SW-N3/SE3H</b>	SC65BASN-■22T□	●

- Notes: ● Available  
 ■ Coil voltage code  
 □ Thermal overload relay ampere setting range code
- \*1 Auxiliary contact 1NC is available on request.  
 \*2 Auxiliary contact 2NO or 2NC is available on request.  
 \*3 Auxiliary contact 2NO or 2NC or 2NO+2NC is available on request.  
 \*4 Auxiliary contact 4NO+4NC is available on request for frame sizes N1 and above.

**Non reversing starters with phase-loss protective device (Open type)**


Frame size	Max. motor capacity (HP)				Rated continuous current	Aux. contact NO NC	AC operated			DC operated		
	200V	220V 240V	440V 480V	550V 600V			Type	Ordering code	UL/CSA	Type	Ordering code	UL/CSA
03	2	2	5	5	11A	1 - *1	<b>SW-03/2E</b>	SC11AAE-■10T□	●	<b>SW-03/G2E</b>	SC11AGE-■10T□	●
0	3	3	5	5	13A	1 - *1	<b>SW-0/2E</b>	SC13AAE-■10T□	●	<b>SW-0/G2E</b>	SC13AGE-■10T□	●
05	3	3	5	5	13A	1 1 *2	<b>SW-05/2E</b>	SC14AAE-■11T□	●	<b>SW-05/G2E</b>	SC14AGE-■11T□	●
4-0	5	5	7.5	7.5	20A	1 - *1	<b>SW-4-0/2E</b>	SC18AAE-■10T□	●	<b>SW-4-0/G2E</b>	SC18AGE-■10T□	●
4-1	5	5	10	10	20A	1 - *1	<b>SW-4-1/2E</b>	SC19AAE-■10T□	●	<b>SW-4-1/G2E</b>	SC19AGE-■10T□	●
5-1	5	5	10	10	20A	1 1 *3	<b>SW-5-1/2E</b>	SC20AAE-■11T□	●	<b>SW-5-1/G2E</b>	SC20AGE-■10T□	●
N1	7.5	10	25	25	50A	2 2 *4	<b>SW-N1/2E</b>	SC25BAAE-■22T□	●	<b>SW-N1/G2E</b>	SC25BAGE-■22T□	●
N2	10	15	30	30	60A	2 2 *4	<b>SW-N2/2E</b>	SC35BAAE-■22T□	●	<b>SW-N2/G2E</b>	SC35BAGE-■22T□	●
N2S	15	20	40	40	80A	2 2 *4	<b>SW-N2S/2E</b>	SC50BAAE-■22T□	●	<b>SW-N2S/G2E</b>	SC50BAGE-■22T□	●
N3	20	25	50	50	100A	2 2 *4	<b>SW-N3/2E</b>	SC65BAAE-■22T□	●	<b>SW-N3/G2E</b>	SC65BAGE-■22T□	●
N4	25	30	60	60	135A	2 2 *4	<b>SW-N4/2E</b>	SC80BAAE-■22T□	●	<b>SW-N4/G2E</b>	SC80BAGE-■22T□	●
N5	30	30	60	75	150A	2 2 *4	<b>SW-N5A/2E</b>	SC93CAAE-■22T□	●	<b>SW-N5/G2E</b>	SC93BAGE-■22T□	●
N6	40	40	75	100	150A	2 2 *4	<b>SW-N6/2E</b>	SC1CBAAE-■22T□	●	<b>SW-N6/2E</b>	SC1CBAAE-■22T□	●
N7	50	50	100	125	200A	2 2 *4	<b>SW-N7/2E</b>	SC1FBAAE-■22T□	●	<b>SW-N7/2E</b>	SC1FBAAE-■22T□	●
N8	60	60	150	150	260A	2 2 *4	<b>SW-N8/2E</b>	SC1JBAAE-■22T□	●	<b>SW-N8/2E</b>	SC1JBAAE-■22T□	●
N10	75	75	150	200	260A	2 2 *4	<b>SW-N10/2E</b>	SC2CBAAE-■22T□	●	<b>SW-N10/2E</b>	SC2CBAAE-■22T□	●
N11	100	100	200	250	350A	2 2 *4	<b>SW-N11/2E</b>	SC3ABAAE-■22T□	●	<b>SW-N11/2E</b>	SC3ABAAE-■22T□	●
N12	125	150	300	350	450A	2 2 *4	<b>SW-N12/2E</b>	SC4ABAAE-■22T□	●	<b>SW-N12/2E</b>	SC4ABAAE-■22T□	●
N14	200	200	500	600	660A	2 2 *4	<b>SW-N14/2E</b>	SC6ABAAE-■22T□	●	<b>SW-N14/2E</b>	SC6ABAAE-■22T□	●
N1	7.5	10	25	25	50A	2 2 *4	<b>SW-N1/SE2E</b>	SC25BASE-■22T□	●	<b>SW-N1/SE2E</b>	SC25BASE-■22T□	●
N2	10	15	30	30	60A	2 2 *4	<b>SW-N2/SE2E</b>	SC35BASE-■22T□	●	<b>SW-N2/SE2E</b>	SC35BASE-■22T□	●
N2S	15	20	40	40	80A	2 2 *4	<b>SW-N2S/SE2E</b>	SC50BASE-■22T□	●	<b>SW-N2S/SE2E</b>	SC50BASE-■22T□	●
N3	20	25	50	50	100A	2 2 *4	<b>SW-N3/SE2E</b>	SC65BASE-■22T□	●	<b>SW-N3/SE2E</b>	SC65BASE-■22T□	●
N4	25	30	60	60	135A	2 2 *4	<b>SW-N4/SE2E</b>	SC80BASE-■22T□	●	<b>SW-N4/SE2E</b>	SC80BASE-■22T□	●

- Notes: ● Available  
 ■ Coil voltage code  
 □ Thermal overload relay ampere setting range code
- \*1 Auxiliary contact 1NC is available on request.  
 \*2 Auxiliary contact 2NO or 2NC is available on request.  
 \*3 Auxiliary contact 2NO or 2NC or 2NO+2NC is available on request.  
 \*4 Auxiliary contact 4NO+4NC is available on request for frame sizes N1 and above.

# Magnetic Contactors and Starters

## UL and CSA approved

### Reversing contactors and starters (Open type)

Auxiliary contact NO NC	Contactor AC operated		Starter Standard		With phase-loss protective device		Approved 
	Type	Ordering code	Type	Ordering code	Type	Ordering code	
- 2 *1	<b>SC-03RM</b>	SC11RA-■01	<b>SW-03RM/3H</b>	SC11RAN-■01T □□	<b>SW-03RM/2E</b>	SC11RAE-■01T□	●
- 2 *1	<b>SC-0RM</b>	SC13RA-■01	<b>SW-0RM/3H</b>	SC13RAN-■01T □□	<b>SW-0RM/2E</b>	SC13RAE-■01T□	●
2 2 *2	<b>SC-05RM</b>	SC14RA-■11	<b>SW-05RM/3H</b>	SC14RAN-■11T □□	<b>SW-05RM/2E</b>	SC14RAE-■11T□	●
- 2 *1	<b>SC-4-0RM</b>	SC18RA-■01	<b>SW-4-0RM/3H</b>	SC18RAN-■01T □□	<b>SW-4-0RM/2E</b>	SC18RAE-■01T□	●
- 2 *1	<b>SC-4-1RM</b>	SC19RA-■01	<b>SW-4-1RM/3H</b>	SC19RAN-■01T □□	<b>SW-4-1RM/2E</b>	SC19RAE-■01T□	●
2 2 *3	<b>SC-5-1RM</b>	SC20RA-■11	<b>SW-5-1RM/3H</b>	SC20RAN-■11T □□	<b>SW-5-1RM/2E</b>	SC20RAE-■11T□	●
4 4 *4	<b>SC-N1RM</b>	SC25BRA-■22	<b>SW-N1RM/3H</b>	SC25BRAN-■22T □□	<b>SW-N1RM/2E</b>	SC25BRAE-■22T□	●
4 4 *4	<b>SC-N2RM</b>	SC35BRA-■22	<b>SW-N2RM/3H</b>	SC35BRAN-■22T □□	<b>SW-N2RM/2E</b>	SC35BRAE-■22T□	●
4 4 *4	<b>SC-N2SRM</b>	SC50BRA-■22	<b>SW-N2SRM/3H</b>	SC50BRAN-■22T □□	<b>SW-N2SRM/2E</b>	SC50BRAE-■22T□	●
4 4 *4	<b>SC-N3RM</b>	SC65BRA-■22	<b>SW-N3RM/3H</b>	SC65BRAN-■22T □□	<b>SW-N3RM/2E</b>	SC65BRAE-■22T□	●
4 4 *4	<b>SC-N4RM</b>	SC80BRA-■22	<b>SW-N4RM/3H</b>	SC80BRAN-■22T □	<b>SW-N4RM/2E</b>	SC80BRAE-■22T□	●
4 4 *4	<b>SC-N5ARM</b>	SC93CRA-■22	<b>SW-N5ARM/3H</b>	SC93CRAN-■22T □	<b>SW-N5ARM/2E</b>	SC93CRAE-■22T□	●
4 4 *4	<b>SC-N6RM</b>	SC1CBRA-■22	<b>SW-N6RM/3H</b>	SC1CBRAN-■22T □	<b>SW-N6RM/2E</b>	SC1CBRAE-■22T□	●
4 4 *4	<b>SC-N7RM</b>	SC1FBRA-■22	<b>SW-N7RM/3H</b>	SC1FBRAN-■22T □	<b>SW-N7RM/2E</b>	SC1FBRAE-■22T□	●
4 4 *4	<b>SC-N8RM</b>	SC1JBRA-■22	<b>SW-N8RM/3H</b>	SC1JBRAN-■22T □	<b>SW-N8RM/2E</b>	SC1JBRAE-■22T□	●
4 4 *4	<b>SC-N10RM</b>	SC2CBRA-■22	<b>SW-N10RM/3H</b>	SC2CBRAN-■22T □	<b>SW-N10RM/2E</b>	SC2CBRAE-■22T□	●
4 4 *4	<b>SC-N11RM</b>	SC3ABRA-■22	<b>SW-N11RM/3H</b>	SC3ABRAN-■22T □	<b>SW-N11RM/2E</b>	SC3ABRAE-■22T□	●
4 4 *4	<b>SC-N12RM</b>	SC4ABRA-■22	<b>SW-N12RM/3H</b>	SC4ABRAN-■22T □	<b>SW-N12RM/2E</b>	SC4ABRAE-■22T□	●
4 4 *4	<b>SC-N14RM</b>	SC6ABRA-■22	<b>SW-N14RM/3H</b>	SC6ABRAN-■22T □	<b>SW-N14RM/2E</b>	SC6ABRAE-■22T□	●

Notes: ● Available

■ Coil voltage code

□ Thermal overload relay ampere setting range code

Ratings are same as non-reversing types.

\*1 Auxiliary contact 2NO is available on request.

\*2 Auxiliary contact 4NC is available on request.

\*3 Auxiliary contact 4NC, 4NO+4NC is available on request.

\*4 Auxiliary contact 6NO+6NC is available on request.

### ● Coil characteristics

#### Frame size 03 to N5A

Coil operating voltage				Code
24V	50Hz /	24-26V	60Hz	<b>E</b>
48V	50Hz /	48-52V	60Hz	<b>F</b>
100V	50Hz /	100-110V	60Hz	<b>1</b>
100-110V	50Hz /	110-120V	60Hz	<b>H</b>
110-120V	50Hz /	120-130V	60Hz	<b>K</b>
200V	50Hz /	200-220V	60Hz	<b>2</b>
200-220V	50Hz /	220-240V	60Hz	<b>M</b>
220-240V	50Hz /	240-260V	60Hz	<b>P</b>
346-380V	50Hz /	380-420V	60Hz	<b>S</b>
380-400V	50Hz /	400-440V	60Hz	<b>4</b>
415-440V	50Hz /	440-480V	60Hz	<b>T</b>
480-500V	50Hz /	500-550V	60Hz	<b>5</b>

Note: Other voltages are available in 24-600V AC range on request.

#### Frame size N5 to N16

Coil operating voltage			Code
AC	DC		
24-25V	50/60Hz	24V	<b>E</b>
48-50V	50/60Hz	48V	<b>F</b>
100-127V	50/60Hz	100-120V	<b>1</b>
200-250V	50/60Hz	200-240V	<b>2</b>
380-450V	50/60Hz	—	<b>4</b>

Notes: ● Be careful of these voltages because they are different from the standard range.

● 24V and 48V is not available for N14 and 16.

#### Frame size 03/G to N5/G

Coil operating voltage		Code
DC		
12V		<b>B</b>
24V		<b>E</b>
48V		<b>F</b>
60V		<b>G</b>
100V		<b>1</b>
110V		<b>H</b>
120V		<b>K</b>
200V		<b>2</b>
210V		<b>Y</b>
220V		<b>M</b>

Note: Other voltages are available in 12-250V DC range on request.

**Thermal overload relays**

Standard type	Ordering code	With phase-loss protective device	Setting range (A)	Reset	Combined motor starter
Type	Ordering code	Type	Ordering code		Standard With phase-loss protective device
TR-0N/3	TR13DW-□	TK-0N	TR13EW-□	Manual/auto	SW-03/3H SW-03/2E SW-0/3H SW-0/2E SW-05/3H SW-05/2E
TR-5-1N/3	TR20DW-□	TK-5-1N	TR20EW-□	Manual/auto	SW-4-0/3H SW-4-0/2E SW-4-1/3H SW-4-1/2E SW-5-1/3H SW-5-1/2E
TR-N2/3	TR35BDW-□	TK-N2	TR35BEW-□	Manual/auto	SW-N1/3H SW-N1/2E SW-N2/3H SW-N2/2E
TR-N2H/3*	TR35BDH-□	TK-N2H*	TR35BEH-□		
TR-N3/3	TR65BDW-□	TK-N3	TR65BEW-□	Manual/auto	SW-N2S/3H SW-N2S/2E SW-N3/3H SW-N3/2E
TR-N3H/3*	TR65BDH-□	TK-N3H*	TR65BEH-□		
TR-N5/3	TR93BDW-□	TK-N5	TR93BEW-□	Manual/auto	SW-N4/3H SW-N4/2E SW-N5A/3H SW-N5A/2E
TR-N6/3	TR1CBDW-□	TK-N6	TR1CBEW-□	Manual/auto	SW-N6/3H SW-N6/2E
TR-N6H/3*	TR1CBDH-□	TK-N6H*	TR1CBEH-□		
TR-N7/3	TR1FBDW-□	TK-N7	TR1FBEW-□	Manual/auto	SW-N7/3H SW-N7/2E
TR-N8/3	TR1JBDW-□	TK-N8	TR1JBEW-□	Manual/auto	SW-N8/3H SW-N8/2E
TR-N10/3	TR2CBDW-□	TK-10N	TR2CBEW-□	Manual/auto	SW-N10/3H SW-N10/2E
TR-N10H/3*	TR2CBDH-□	TK-10NH*	TR2CBEH-□		
TR-N12/3	TR4ABDW-□	TK-12N	TR4ABEW-□	Manual/auto	SW-N11/3H SW-N11/2E SW-N12/3H SW-N12/2E
TR-N12H/3*	TR4ABDH-□	TK-12NH*	TR4ABEH-□		
TR-N14/3	TR6ABDW-□	TK-14N	TR6ABEW-□	Manual/auto	SW-N14/3H SW-N14/2E
TR-N14H/3*	TR6ABDH-□	TK-14NH*	TR6ABEH-□		

Notes: □ Enter the thermal overload relay ampere setting range code

- \*Separate mounting type
- Auxiliary contact: 1NO+1NC
- UL recognized

• Max. setting ranges of these starters are as follows.

Starter	Max. setting range	Starter	Max. setting range
SW-03	5-8A	SW-N1	24-36A
SW-N2S	45-65A	SW-N4	53-80A

**● Auxiliary contact ratings**

**Contactors**

Frame size	Continuous current (A)	AC	Make/Break (A)	DC	Make/Break (A)
SC-03 to N14	10	120V 240V 480V 600V	60/6 30/3 15/1.5 12/1.2	125V 250V	0.55/0.55 0.27/0.27

**Thermal overload relays**

Frame	Continuous current (A)	AC	Make/Break (A)	DC	Make/Break (A)
TR-0N/3 to 5-1N/3 TK-0N to 5-1N	2.5	120V 240V 480V 600V	15/1.5 7.5/0.75 3.75/0.375 3/0.3	125V 250V	0.22A/0.22 0.11A/0.11
TR-N2/3 to N14/3 TK-N2 to N14	5	120V 240V 480V 600V	30/3 15/1.5 7.5/0.75 6/0.6	125V 250V	0.22A/0.22 0.11A/0.11

**● Thermal overload relays**

**Ampere setting ranges and codes**

Ampere setting range (A)	Code	Ampere setting range (A)	Code	Ampere setting range (A)	Code
0.1 - 0.15	A	4 - 6	S	65 - 95	M
0.13 - 0.2	B	5 - 8	T	85 - 105	I
0.15 - 0.24	C	6 - 9	U	85 - 125	N
0.2 - 0.3	D	7 - 11	V	110 - 160	P
0.24 - 0.36	E	9 - 13	W	125 - 185	R
0.3 - 0.45	F	12 - 18	X	160 - 240	S
0.36 - 0.54	G	16 - 22	Q	200 - 300	T
0.48 - 0.72	H	18 - 26	B	240 - 360	U
0.64 - 0.96	J	24 - 36	E	300 - 450	V
0.8 - 1.2	K	28 - 40	F	400 - 600	W
0.95 - 1.45	L	32 - 42	I		
1.4 - 2.2	M	34 - 50	G		
1.7 - 2.6	N	45 - 65	J		
2.2 - 3.4	P	48 - 68	O		
2.8 - 4.2	R	53 - 80	L		

**● Dimensions**

See page 01/26 for standard contactor and starter.  
See page 01/35 for reversing contactor and starter.  
See page 01/42 for DC operated contactor.

See page 01/94 for thermal overload relay.

# Magnetic Contactors and Starters

## UL and CSA approved

### DC contactor SB series UL [File No. E42419], CSA [File No. LR20479]

Type	Ordering code	Main contact arrangement	Current ratings (A)						DC motor control (DC2, class4)				Continuous current (A)	
			Variable-speed motor control			DC motor control (DC2, class4)								
			2NO (in series)*1		1NC (dynamic brake)*2		2NO (in series)		NO	NC				
110V/240V	440V/500V	110V/240V	440V/500V	110V	240V	440V	500V							
SB-2N/UL	SB351AA-■□	2NO	50	35	75	75	40	35	18	15	50	50		
SB-2NB/UL	SB351AB-21■□	2NO+1NC												
SB-2N/SEUL	SB351SA-■□	2NO	50	35	75	75	40	35	18	15	50	50		
SB-2NB/SEUL	SB351SB-21■□	2NO+1NC												
SB-5N/UL	SB851BA-■□	2NO	110	110	165	165	85	85	60	45	110	100		
SB-5NB/UL	SB851BB-■□	2NO+1NC												
SB-6N/UL	SB1C1BA-■□	2NO	140	140	210	210	125	120	80	50	140	100		
SB-6NB/UL	SB1C1BB-■□	2NO+1NC												
SB-10N/UL	SB2A1BA-■□	2NO	240	240	360	360	240	200	120	100	240	160		
SB-10NB/UL	SB2A1BB-■□	2NO+1NC												
SB-11N/UL	SB2K1BA-■□	2NO	320	320	480	480	320	290	200	150	320	200		
SB-11NB/UL	SB2K1BB-■□	2NO+1NC												

Notes: \* Enter the coil voltage code in the ■ mark.

\* Enter the auxiliary contact arrangement in the □ mark.

\*22: 2NO+2NC (standard), 33: 3NO+3NC (on request),

44: 4NO+4NC (on request)

\*1 NO contacts are capable of making 2 times of listed current ratings.

\*2 NC contacts are capable of making 1 time of listed current ratings.

• On-load factor is 50%, operating cycle is 600 cycles per hour.

• Breaking condition : No voltage

### ● Dimensions

Same as standard type

See page 01/81.

### ● Auxiliary contact ratings

Rating code	Continuous current (A)	Current ratings (A) Voltage	Make Break	
			Make	Break
A600	10	120V AC	60	6
		240V AC	30	3
		480V AC	15	1.5
		600V AC	12	1.2
Q300	10	125V DC	0.55	0.55
		250V DC	0.27	0.27

### Optional units UL [File No. E42419], CSA [File No. LR20479]


Description		Type	Ordering code	Used with	
Auxiliary contact block	Front mounting	<b>SZ-A40</b>	SZ1A40 4NO	SC-03 to 5-1	
		<b>SZ-A31</b>	SZ1A31 3NO+1NC	SH-4,5	
		<b>SZ-A22</b>	SZ1A22 2NO+2NC	SC-N1 to N3	
		<b>SZ-A20</b>	SZ1A20 2NO		
		<b>SZ-A11</b>	SZ1A11 1NO+1NC		
		<b>SZ-A02</b>	SZ1A02 2NC		
	Side mounting	<b>SZ-AS1</b>	SZ1AS1 1NO+1NC	SC-03 to N3	
		<b>SZ-AS2</b>	SZ1AS2 1NO+1NC	SC-N4 to N12	
Mechanical interlock unit		<b>SZ-RM</b>	SZ1RM	SC-03 to 5-1 SC-N1 to N3	
Coil surge suppression unit	Varistor	<b>SZ-Z1</b>	SZ1Z1 24 to 48V AC/DC	SC-03 to 5-1	
		<b>SZ-Z2</b>	SZ1Z2 100 to 250V AC/DC	SH-4, 5	
		<b>SZ-Z3</b>	SZ1Z3 380 to 440V AC/DC		
		<b>SZ-Z6*2</b>	SZ1Z6 24 to 48V AC/DC		
		<b>SZ-Z7*2</b>	SZ1Z7 100 to 250V AC/DC		
		<b>SZ-Z31</b>	SZ2Z31 24 to 48V AC/DC	SC-N1 to N3	
		<b>SZ-Z32</b>	SZ2Z32 100 to 250V AC/DC	SC-N1/G to N3/G	
		<b>SZ-Z33</b>	SZ2Z33 380 to 440V AC/DC	SC-N1 to N3	
		<b>SZ-Z41</b>	SZ2Z41 24 to 48V AC	SC-N4, N5A	
		<b>SZ-Z42</b>	SZ2Z42 100 to 250V AC		
		<b>SZ-Z43</b>	SZ2Z43 380 to 440V AC		
	CR		<b>SZ-Z4</b>	SZ1Z4 24 to 48V AC/DC	SC-03 to 5-1
			<b>SZ-Z5</b>	SZ1Z5 100 to 250V AC/DC	SH-4, 5
<b>SZ-Z8*2</b>			SZ1Z8 24 to 48V AC/DC		
<b>SZ-Z9*2</b>			SZ1Z9 100 to 250V AC/DC		
<b>SZ-Z34</b>			SZ2Z34 24 to 48V AC	SC-N1 to N3	
<b>SZ-Z35</b>		SZ2Z35 100 to 250V AC			
<b>SZ-Z36</b>		SZ2Z36 24 to 48V DC	SC-N1/G to N3/G		
<b>SZ-Z37</b>		SZ2Z37 100 to 250V DC			
<b>SZ-Z44</b>		SZ2Z44 24 to 48V AC	SC-N4, N5A		
<b>SZ-Z45</b>	SZ2Z45 100 to 250V AC				

Notes: \*1 Overlapping

\*2 With LED

Description	Type	Ordering code	Used with	
Main circuit surge suppression unit	<b>SZ-ZM1</b>	SZ1ZM1	SC-03 to 5-1	
	<b>SZ-ZM2</b>	SZ1ZM2	SC-03 to 5-1	
	<b>SZ-ZM3</b>	SZ1ZM3	SC-N1 to N3	
	<b>SZ-ZM4</b>	SZ1ZM4	SC-N1 to N3	
Terminal cover	For contactor and industrial relay	<b>SZ-T1</b>	SZ1T1	SC-03, 0, SH-4
		<b>SZ-T2</b>	SZ1T2	SC-05, SH-5
		<b>SZ-T3</b>	SZ1T3	SC-4-0, 4-1
		<b>SZ-T4</b>	SZ1T4	SC-5-1
	<b>SZ-T22</b>	SZ2T22	SC-N1, N2	
	<b>SZ-T23</b>	SZ2T23	SC-N2S, N3	
	<b>SZ-N4T</b>	SZ2N4T	SC-N4, N5, SW-N4/3H, N5A/3H	
	<b>SZ-N6T</b>	SZ2N6T	SC-N6, SW-N6/3H	
	<b>SZ-N7T</b>	SZ2N7T	SC-N7, SW-N7/3H	
	<b>SZ-N8T</b>	SZ2N8T	SC-N8, N10, SW-N8/3H, N10/3H	
	<b>SZ-N11T</b>	SZ2N11T	SC-N11, N12, SW-N11/3H, N12/3H	
For auxiliary contact block	<b>SZ-WN4T</b>	SZ2WN7T	SW-N4/3H, N5A/3H	
	<b>SZ-WN6T</b>	SZ2WN7T	SW-N6/3H	
	<b>SZ-WN7T</b>	SZ2WN7T	SW-N7/3H	
	<b>SZ-WN8T</b>	SZ2WN7T	SW-N8/3H	
	<b>SZ-WN10T</b>	SZ2WN7T	SW-N10/3H	
	<b>SZ-WN11T</b>	SZ2WN7T	SW-N11/3H, N12/3H	
	<b>SZ-T5</b>	SZ1T5	SZ-A40, SZ-A31, SZ-A22	
	<b>SZ-T6</b>	SZ1T6	SZ-A20, SZ-A11, SZ-A02	
	<b>SZ-T7</b>	SZ1T7	SZ-AS1, SZ-AS2	
	For thermal overload relay	<b>SZ-T10</b>	SZ1T10	SZ-HB
<b>SZ-T11</b>		SZ1T11	SZ-HC	
<b>SZ-T12</b>		TZ1T12	TR-0N/3, TK-0N	
<b>SZ-T13</b>		TZ1T13	TR-5-1N/3, TK-5-1N	
<b>SZ-T14</b>		SZ2T14	TR-N2H/3, TK-N2H	
<b>SZ-T15</b>		SZ2T15	TR-N3H/3, TK-N3H	
<b>SZ-RN6T</b>		SZ2RN6T	TR-N6H/3, TK-N6H	
<b>SZ-T16</b>		SZ2T16	TR-N2/3, TK-N2	
<b>SZ-T17</b>		SZ2T17	TR-N3/3, TK-N3	
Base unit for separate mounting		<b>SZ-HB</b>	TZ1HB	TR-0N/3, TK-0N
	<b>SZ-HC</b>	TZ1HC	TR-5-1N/3, TK-5-1N	
	<b>SZ-HD</b>	TZ2HD	TR-N2/3, TK-N2	
	<b>SZ-HE</b>	TZ2HE	TR-N3/3, TK-N3	
Reset release button	<b>SZ-R1</b>	TZ1R1	TR-0N/3, TK-0N, TR-5-1N/3	
	<b>SZ-R2</b>	TZ1R2	TK-5-1N	
	<b>SZ-R3</b>	TZ1R3	TR-N10/3 to N14/3, TK-N10 to N14	
	<b>SZ-R4</b>	TZ2R4	TR-N2/3 to N8/3	
	<b>SZ-R5</b>	TZ2R5	TK-N2 to N8	
	<b>SZ-R6</b>	TZ2R6		
Dial cover	<b>SZ-DA</b>	SZ1DA	TR-0N/3 to N14/3 TK-0N to TK-N14	

**Definite purpose contactors UL** [File No. E42419], **CSA** [File No. LR20479]

Type	Ordering code		Terminal	Auxiliary contact arrangement	Motor capacity (HP)						Thermal continuous current (A)
					Single-phase		3-phase				
					110V 120V	220V 240V	200V	220V 240V	440V 480V	550V 600V	
FC-0UL FC-0TUL FC-0SUL FC-0STUL	SF12B1A-■10*1 SF12B3A-■10*1 SF15B1A-■10*1 SF15B3A-■10*1	● ● ● ●	Screw Tab Screw Tab	1NO	1/2	1	1	1	-	-	15
FC-1UL FC-1SUL FC-2SUL FC-3UL FC-4UL	SF20B1A-■11*2 SF26B1A-■11*2 SF38B1A-■11*2 SF50B1A-■11*2 SF65B1A-■11*2	● ● ● ● ●	Screw Screw Screw Screw Screw	1NO+1NC	1	2	5	5	7.5	7.5	20 26 35 45 65
FC-0/GUL FC-0T/GUL FC-0S/GUL FC-0ST/GUL	SF12B1G-■10*1 SF12B3G-■10*1 SF15B1G-■10*1 SF15B3G-■10*1	● ● ● ●	Screw Tab Screw Tab	1NO	1/2	1	1	1	-	-	15

Notes: \*1 1NO is standard, 1NC is also available on request. ● Approved ■ Coil voltage code  
\*2 1NO+1NC is standard, 2NO or 2NC is also available on request.

**Auxiliary contact ratings**

Type	Rating code	Thermal continuous current (A)	Current ratings (A)								Maximum (VA)	
			120V AC		240V AC		480V AC		600V AC		Make	Break
			Make	Break	Make	Break	Make	Break	Make	Break		
FC-0UL FC-0TUL FC-0SUL FC-0STUL	B300	5	30	3	15	1.5	-	-	-	-	3600	360
FC-1UL FC-1SUL FC-2SUL FC-3UL FC-4UL	A600	10	60	6	30	3	15	1.5	12	1.2	7200	720
FC-0/GUL FC-0T/GUL FC-0S/GUL FC-0ST/GUL	B300	5	30	3	15	1.5	-	-	-	-	3600	360

**Operating coil voltage**

FC-0UL, 0TUL, 0SUL, 0STUL, 1UL, FC-1SUL, 2SUL, 3UL, 4UL

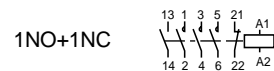
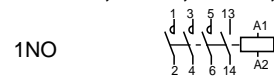
Voltage and frequency	Code
24V 50Hz/24 - 26V 60Hz	E
48V 50Hz/48 - 52V 60Hz	F
100V 50Hz/100 - 110V 60Hz	1
100 - 110V 50Hz/110 - 120V 60Hz	H
110 - 120V 50Hz/120 - 130V 60Hz	K
200V 50Hz/200 - 220V 60Hz	2
200 - 220V 50Hz/220 - 240V 60Hz	M

FC-0/GUL, 0T/GUL  
FC-0S/GUL, 0ST/GUL

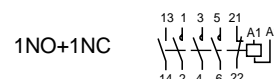
Voltage	Code
24V DC	E
48V DC	F
100V DC	1
110V DC	H
200V DC	2
220V DC	M

**Wiring diagrams**

FC-0UL, 0TUL, 0/GUL, 0T/GUL  
FC-0SUL, 0STUL, 0S/GUL, 0ST/GUL



FC-1UL, 1SUL, 2SUL, 3UL, 4UL



**Dimensions, mm**

See page 01/83.

# Magnetic Contactors and Starters

## UL and CSA approved

### Solid-state contactors SS series UL [File No. E132864, E142975]

#### Single pole type

#### ● Main circuit 240V AC, SS101 to SS2001

Type	SS101-5Z-A3 SS101-5Z-A4 SS101-3Z-D3	SS201-5Z-A3 SS201-5Z-A4 SS201-3Z-D3	SS301-5Z-A3 SS301-5Z-A4 SS301-3Z-D3	SS401-5Z-A3 SS401-5Z-A4 SS401-3Z-D3	SS501-5Z-A3 SS501-5Z-A4 SS501-3Z-D3
Ordering code	SS101-5ZA3 SS101-5ZA4 SS101-3ZD3	SS201-5ZA3 SS201-5ZA4 SS201-3ZD3	SS301-5ZA3 SS301-5ZA4 SS301-3ZD3	SS401-5ZA3 SS401-5ZA4 SS401-3ZD3	SS501-5ZA3 SS501-5ZA4 SS501-3ZD3
Rated thermal current(A) *	10	20	30	40	50
Control voltage	A3 : 100V-120V AC, A4 : 200-240V AC, D3 : 5-24V DC				

Type	SS701-1Z-A3 SS701-1Z-A4 SS701-3Z-D3	SS1001-1Z-A3 SS1001-1Z-A4 SS1001-3Z-D3	SS1501-1Z-A3 SS1501-1Z-A4 SS1501-3Z-D3	SS2001-1Z-A3 SS2001-1Z-A4 SS2001-3Z-D3	
Ordering code	SS701-1ZA3 SS701-1ZA4 SS701-3ZD3	SS1A1-1ZA3 SS1A1-1ZA4 SS1A1-3ZD3	SS1F1-1ZA3 SS1F1-1ZA4 SS1F1-3ZD3	SS1A1-1ZA3 SS1A1-1ZA4 SS1A1-3ZD3	
Rated thermal current(A) *	70	100	150	200	
Control voltage	A3 : 100V-120V AC, A4 : 200-240V AC, D3 : 5-24V DC				

#### ● Main circuit 480V AC, SS701H to SS2001H

Type	SS701H-1Z-A3 SS701H-1Z-A4 SS701H-3Z-D3	SS1001H-1Z-A3 SS1001H-1Z-A4 SS1001H-3Z-D3	SS1501H-1Z-A3 SS1501H-1Z-A4 SS1501H-3Z-D3	SS2001H-1Z-A3 SS2001H-1Z-A4 SS2001H-3Z-D3	
Ordering code	SS701H-1ZA3 SS701H-1ZA4 SS701H-3ZD3	SS1A1H-1ZA3 SS1A1H-1ZA4 SS1A1H-3ZD3	SS1F1H-1ZA3 SS1F1H-1ZA4 SS1F1H-3ZD3	SS1A1H-1ZA3 SS1A1H-1ZA4 SS1A1H-3ZD3	
Rated thermal current(A) *	70	100	150	200	
Control voltage	A3 : 100V-120V AC, A4 : 200-240V AC, D3 : 5-24V DC				

Note: \* The values are maximum ratings that apply at an ambient temperature not exceeding 40°C.

#### 3-pole type

#### ● Main circuit 240V AC

Contactor 3-pole, 2-element		3-pole, 3-element		Cooling fin to be combined 3-pole, 2-element		3-pole, 3-element		Continuous current (A)	Motor ratings 3-phase 220V AC 60Hz	
Basic type	Basic ordering code	Basic type	Basic ordering code	Basic type	Basic ordering code	Basic type	Basic ordering code		Capacity (HP)	Full load current (A)
SS032	SS032	SS033	SS033	—	—	—	—	3	1/2	2
SS082	SS082	SS083	SS083	*	*	*	*	8	3/4	2.9
SS202	SS202	SS203	SS203	SX1-D10	SY1D0	SX1-D10	SY1D0	20	1 1/2	5.2
SS302	SS302	SS303	SS303	SX1-D10	SY1D0	SX1-E12	SY1E2	30	2	5.8
SS402	SS402	SS403	SS403	SX1-D14	SY1D4	SX1-E12	SY1E2	40	3	9.6
SS502	SS502	SS503	SS503	SX1-E12	SY1E2	SX1-E17	SY1E7	50	5	15.2
SS802	SS802	SS803	SS803	SX1-C12	SY1C2	SX1-C12	SY1C2	80	10	28
SS1202	SS1C2	SS1203	SS1C3	SX1-C12	SY1C2	SX1-C12	SY1C2	120	10	28

Note: \* Cooling fin provided

#### ● Main circuit 480V AC

Contactor 3-pole, 2-element		3-pole, 3-element		Cooling fin to be combined 3-pole, 2-element		3-pole, 3-element		Continuous current (A)	Motor ratings 3-phase 440V AC 60Hz	
Basic type	Basic ordering code	Basic type	Basic ordering code	Basic type	Basic ordering code	Basic type	Basic ordering code		Capacity (HP)	Full load current (A)
SS302H	SS302H	SS303H	SS303H	SX1-E12	SY1E2	SX1-E12	SY1E2	30	—	—
SS502H	SS502H	SS503H	SS503H	SX1-E12	SY1E2	SX1-E17	SY1E7	50	10	17
SS802H	SS802H	SS803H	SS803H	SX1-C12	SY1C2	SX1-C12	SY1C2	80	20	32.5
SS1202H	SS1C2H	SS1203H	SS1C3H	SX1-C12	SY1C2	SX1-C12	SY1C2	120	20	32.5

#### ● Input voltage

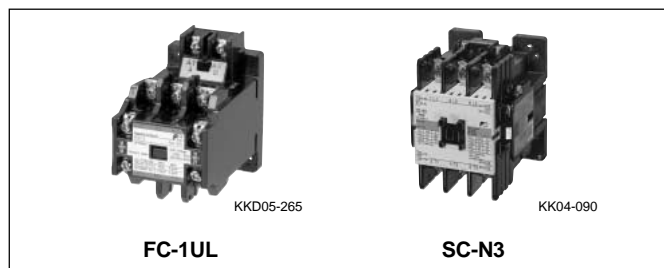
100-120/200-240V AC  
100-120V AC  
200-240V AC  
12/24V DC  
12-24V DC  
5V DC  
5-24V DC

Note: For details, see page 01/119.

TÜV approved

■ Description

FUJI contactors and starters introduced in this section are TÜV approved products as they are.



Contactor SC series

AC operated		DC operated		Max. motor capacity (kW)*5		Rated operational current (A)*5		Continuous current (A)	Auxiliary contact	
Type	Ordering code	Type	Ordering code	200V 240V	380V 440V	200V 240V	380V 440V		NO	NC
SC-03	SC11AA-■10	SC-03/G	SC11AG-■10	2.5	4	11	9	20	1	—*1
SC-0	SC13AA-■10	SC-0/G	SC13AG-■10	3.5	5.5	13	12	20	1	—*1
SC-05	SC14AA-■11	SC-05/G	SC14AG-■11	3.5	5.5	13	12	20	1	1*2
SC-4-0	SC18AA-■10	SC-4-0/G	SC18AG-■10	4.5	7.5	18	16	25	1	—*1
SC-4-1	SC19AA-■10	SC-4-1/G	SC19AG-■10	5.5	11	22	22	32	1	—*1
SC-5-1	SC20AA-■11	SC-5-1/G	SC20AG-■11	5.5	11	22	22	32	1	1*3
SC-N1	SC25BAA-■22	SC-N1/G	SC25BAG-■22	7.5	15	32	32	50	2	2*4
SC-N2	SC35BAA-■22	SC-N2/G	SC35BAG-■22	11	18.5	40	40	60	2	2*4
SC-N2S	SC50BAA-■22	SC-N2S/G	SC50BAG-■22	15	22	50	50	80	2	2*4
SC-N3	SC65BAA-■22	SC-N3/G	SC65BAG-■22	18.5	30	65	65	100	2	2*4
SC-N4	SC80BAA-■22	SC-N4/SE	SC80BAS-■22	22	40	80	80	135	2	2*4
SC-N5A	SC93CAA-■22	SC-N5	SC93BAA-■22	30	55	105	105	150	2	2*4
SC-N6	SC1CBAA-■22	SC-N6	SC1CBAA-■22	37	60	125	125	150	2	2*4
SC-N7	SC1FBAA-■22	SC-N7	SC1FBAA-■22	45	75	150	150	200	2	2*4
SC-N8	SC1JBAA-■22	SC-N8	SC1JBAA-■22	55	90	180	180	260	2	2*4
SC-N10	SC2CBAA-■22	SC-N10	SC2CBAA-■22	65	110	220	220	260	2	2*4
SC-N11	SC3ABAA-■22	SC-N11	SC3ABAA-■22	90	160	300	300	350	2	2*4
SC-N12	SC4ABAA-■22	SC-N12	SC4ABAA-■22	120	220	400	400	450	2	2*4
SC-N14	SC6ABAA-■22	SC-N14	SC6ABAA-■22	180	315	600	600	660	2	2*4
SC-N16	SC8ABAA-■22	SC-N16	SC8ABAA-■22	220	440	800	800	800	2	2*4

Notes: \*1 Auxiliary contact 1NC is available on request.

\*2 Auxiliary contact 2NO or 2NC is available on request.

\*3 Auxiliary contact 2NC, 2NO or 2NO+2NC is available on request.

■ Coil voltage code

\*4 Auxiliary contact 4NO+4NC is available on request for frame size N1 and above.

\*5 Conforming to IEC 60947-4-1 AC-3

Thermal overload relays

Standard Type	Ordering code	2E type Type	Ordering code	Setting current range (A)	Reset	Used with
TR-0N/3	TR13DW-□	TK-0N	TR13EW-□	0.1-0.15, 0.13-0.2, 0.15-0.24, 0.2-0.3, 0.24-0.36	Manual/auto	SC-03
TR-0NH/3	TR13DH-□	TK-0NH	TR13EH-□	0.3-0.45, 0.36-0.54, 0.48-0.72, 0.64-0.96, 0.8-1.2 0.95-1.45, 1.4-2.2, 1.7-2.6, 2.2-3.4, 2.8-4.2, 4-6 5-8, 6-9, 7-11, 9-13		SC-0 SC-05
TR-5-1N/3	TR20DW-□	TK-5-1N	TR20EW-□	0.1-0.15, 0.13-0.2, 0.15-0.24, 0.2-0.3, 0.24-0.36	Manual/auto	SC-4-0
TR-5-1NH/3	TR20DH-□	TK-5-1NH	TR20EH-□	0.3-0.45, 0.36-0.54, 0.48-0.72, 0.64-0.96, 0.8-1.2 0.95-1.45, 1.4-2.2, 1.7-2.6, 2.2-3.4, 2.8-4.2, 4-6 5-8, 6-9, 7-11, 9-13, 12-18, 16-22		SC-4-1 SC-5-1
TR-N2/3	TR35BDW-□	TK-N2	TR35BEW-□	4-6, 5-8, 6-9, 7-11, 9-13, 12-18, 18-26	Manual/auto	SC-N1
TR-N2H/3	TR35BDH-□	TK-N2H	TR35BEH-□	24-36, 32-42		SC-N2
TR-N3/3	TR65BDW-□	TK-N3	TR65BEW-□	7-11, 9-13, 12-18, 18-26, 24-36, 28-40	Manual/auto	SC-N2S
TR-N3H/3	TR65BDH-□	TK-N3H	TR65BEH-□	34-50, 45-65, 48-68, 53-80, 65-95, 85-105		SC-N3
TR-N5/3	TR93BDW-□	TK-N5	TR93BEW-□	18-26, 24-36, 28-40, 34-50, 45-65, 53-80	Manual/auto	SC-N4
			TR93BEH-□	65-95, 85-105		SC-N5A
TR-N6/3	TR1CBDW-□	TK-N6	TR1CBEW-□	45-65, 53-80, 65-95, 85-125, 110-160	Manual/auto	SC-N6
TR-N6H/3	TR1CBDH-□	TK-N6H	TR1CBEH-□			
TR-N7/3	TR1FBDW-□	TK-N7	TR1FBEW-□	45-65, 53-80, 65-95, 85-125, 110-160	Manual/auto	SC-N7
TR-N8/3	TR1JBDW-□	TK-N8	TR1JBEW-□	65-95, 85-125, 110-160, 125-185	Manual/auto	SC-N8
TR-N10/3	TR2CBDW-□	TK-N10	TR2CBEW-□	85-125, 110-160, 125-185, 160-240	Manual/auto	SC-N10
TR-N10H/3	TR2CBDH-□	TK-N10H	TR2CBEH-□			
TR-N12/3	TR4ABDW-□	TK-N12	TR4ABEW-□	110-160, 125-185, 160-240, 200-300	Manual/auto	SC-N11
TR-N12H/3	TR4ABDH-□	TK-N12H	TR4ABEH-□	240-360, 300-450		SC-N12
TR-N14/3	TR6ABDW-□	TK-N14	TR6ABEW-□	240-360, 300-450, 400-600	Manual/auto	SC-N14
TR-N14H/3	TR6ABDH-□	TK-N14H	TR6ABEH-□			

Note: □ Thermal overload relay ampere setting range code, see page 01/123.

Fuji Electric FA Components & Systems Co., Ltd./D & C Catalog

Information subject to change without notice

# Magnetic Contactors and Starters

## TÜV approved

### Optional units (Auxiliary contact blocks)

Type	Ordering code	Description	Contact arrangement	Continuous current (A)	Operational current (A)				Used with
					AC-15 100–120V	200–240V	380–440V	500–600V	
<b>SZ-A40</b> <b>SZ-A31</b> <b>SZ-A22</b> <b>SZ-A20</b> <b>SZ-A11</b> <b>SZ-A02</b>	SZ1A40 SZ1A31 SZ1A22 SZ1A20 SZ1A11 SZ1A02	Front mounting	4NO 3NO+1NC	10	6	3	1.5	1.2	SC-03 to SC-N3
			2NO+2NC 2NO 1NO+1NC 2NC						
<b>SZ-AS1</b> <b>SZ-AS2</b>	SZ1AS1 SZ2AS2	Side mounting	1NO+1NC 1NO+1NC	10	6	6	4	2.5	SC-N4 to SC-N12
<b>SZ-AS3H</b>	SZ2AS3H		1NO+1NC						SC-N14, SC-N16

### Contactors FC series

AC operated		DC operated		Max. motor capacity (kW) *3		Operational current (A) *3		Continuous current (A)	Contact arrangement	
Type	Ordering code	Type	Ordering code	3-phase 200V 240V	380V 440V	3-phase 200V 240V	380V 440V		Main contact	Aux. contact
<b>FC-0UL</b>	SF12B1A-■10	<b>FC-0/GUL</b>	SF12B1G-■10	3.0	2.5	12	6	20	3NO	1NO *1
<b>FC-0TUL</b>	SF12B3A-■10	<b>FC-0T/GUL</b>	SF12B3G-■10	2.2	2.5	12	6	20	3NO	1NO *1
<b>FC-0SUL</b>	SF15B1A-■10	<b>FC-0S/GUL</b>	SF15B1G-■10	3.5	4.5	15	10	20	3NO	1NO *1
<b>FC-0STUL</b>	SF15B3A-■10	<b>FC-0ST/GUL</b>	SF15B3G-■10	3.5	4.5	15	10	20	3NO	1NO *1
<b>FC-1UL</b>	SF20B1A-■11	–	–	5.5	5.5	20	13	30	3NO	1NO+1NC
<b>FC-1SUL</b>	SF26B1A-■11	–	–	7.5	7.5	27	18	30	3NO	1NO+1NC
<b>FC-2SUL</b>	SF35B1A-■11	–	–	11	11	40	26	45	3NO	1NO+1NC *2
<b>FC-3UL</b>	SF50B1A-■11	–	–	15	18.5	52	40	60	3NO	1NO+1NC *2
<b>FC-4UL</b>	SF65B1A-■11	–	–	18.5	30	65	65	80	3NO	1NO+1NC *2

Notes: \*1 Auxiliary contact 1NC is available on request.

\*2 Auxiliary contact 2NO or 2NC is available on request.

\*3 Conforming to IEC 60497-4-1 AC-3

■ Coil voltage code

**Solid-state contactors SS series**

**Single pole type**

**● Main circuit 240V AC, SS101 to SS2001**

Type	<b>SS101-5Z-A3</b> <b>SS101-5Z-A4</b> <b>SS101-3Z-D3</b>	<b>SS201-5Z-A3</b> <b>SS201-5Z-A4</b> <b>SS201-3Z-D3</b>	<b>SS301-5Z-A3</b> <b>SS301-5Z-A4</b> <b>SS301-3Z-D3</b>	<b>SS401-5Z-A3</b> <b>SS401-5Z-A4</b> <b>SS401-3Z-D3</b>	<b>SS501-5Z-A3</b> <b>SS501-5Z-A4</b> <b>SS501-3Z-D3</b>
Ordering code	SS101-5ZA3 SS101-5ZA4 SS101-3ZD3	SS201-5ZA3 SS201-5ZA4 SS201-3ZD3	SS301-5ZA3 SS301-5ZA4 SS301-3ZD3	SS401-5ZA3 SS401-5ZA4 SS401-3ZD3	SS501-5ZA3 SS501-5ZA4 SS501-3ZD3
Rated thermal current(A) *	10	20	30	40	50
Control voltage	A3 : 100V-120V AC, A4 : 200-240V AC, D3 : 5-24V DC				

Type	<b>SS701-1Z-A3</b> <b>SS701-1Z-A4</b> <b>SS701-3Z-D3</b>	<b>SS1001-1Z-A3</b> <b>SS1001-1Z-A4</b> <b>SS1001-3Z-D3</b>	<b>SS1501-1Z-A3</b> <b>SS1501-1Z-A4</b> <b>SS1501-3Z-D3</b>	<b>SS2001-1Z-A3</b> <b>SS2001-1Z-A4</b> <b>SS2001-3Z-D3</b>	
Ordering code	SS701-1ZA3 SS701-1ZA4 SS701-3ZD3	SS1A1-1ZA3 SS1A1-1ZA4 SS1A1-3ZD3	SS1F1-1ZA3 SS1F1-1ZA4 SS1F1-3ZD3	SS1A1-1ZA3 SS1A1-1ZA4 SS1A1-3ZD3	
Rated thermal current(A) *	70	100	150	200	
Control voltage	A3 : 100V-120V AC, A4 : 200-240V AC, D3 : 5-24V DC				

**● Main circuit 480V AC, SS701H to SS2001H**

Type	<b>SS701H-1Z-A3</b> <b>SS701H-1Z-A4</b> <b>SS701H-3Z-D3</b>	<b>SS1001H-1Z-A3</b> <b>SS1001H-1Z-A4</b> <b>SS1001H-3Z-D3</b>	<b>SS1501H-1Z-A3</b> <b>SS1501H-1Z-A4</b> <b>SS1501H-3Z-D3</b>	<b>SS2001H-1Z-A3</b> <b>SS2001H-1Z-A4</b> <b>SS2001H-3Z-D3</b>	
Ordering code	SS701H-1ZA3 SS701H-1ZA4 SS701H-3ZD3	SS1A1H-1ZA3 SS1A1H-1ZA4 SS1A1H-3ZD3	SS1F1H-1ZA3 SS1F1H-1ZA4 SS1F1H-3ZD3	SS1A1H-1ZA3 SS1A1H-1ZA4 SS1A1H-3ZD3	
Rated thermal current(A) *	70	100	150	200	
Control voltage	A3 : 100V-120V AC, A4 : 200-240V AC, D3 : 5-24V DC				

Note: \* The values are maximum ratings that apply at an ambient temperature not exceeding 40°C.

# Magnetic Contactors and Starters

## TÜV approved

### 3-pole type

#### ● Main circuit 240V AC

Contactor				Cooling fin to be combined				Continuous current (A)	Motor ratings	
3-pole, 2-element		3-pole, 3-element		3-pole, 2-element		3-pole, 3-element			3-phase 220V AC 60Hz	Full load current
Basic type	Basic ordering code	Basic type	Basic ordering code	Basic type	Basic ordering code	Basic type	Basic ordering code	Capacity (HP)	(A)	
<b>SS032</b>	SS032	<b>SS033</b>	SS033	–	–	–	–	3	0.5	1.8
<b>SS082</b>	SS082	<b>SS083</b>	SS083	*	*	*	*	8	0.75	3.2
<b>SS202</b>	SS202	<b>SS203</b>	SS203	<b>SX1-D10</b>	SY1D0	<b>SX1-D10</b>	SY1D0	20	1.5	8
<b>SS302</b>	SS302	<b>SS303</b>	SS303	<b>SX1-D10</b>	SY1D0	<b>SX1-E12</b>	SY1E2	30	2	11
<b>SS402</b>	SS402	<b>SS403</b>	SS403	<b>SX1-D14</b>	SY1D4	<b>SX1-E12</b>	SY1E2	40	3	17.4
<b>SS502</b>	SS502	<b>SS503</b>	SS503	<b>SX1-E12</b>	SY1E2	<b>SX1-E17</b>	SY1E7	50	5	26
<b>SS802</b>	SS802	<b>SS803</b>	SS803	<b>SX1-C12</b>	SY1C2	<b>SX1-C12</b>	SY1C2	80	10	34
<b>SS1202</b>	SS1C2	<b>SS1203</b>	SS1C3	<b>SX1-C12</b>	SY1C2	<b>SX1-C12</b>	SY1C2	120	10	34

Note: \* Cooling fin provided

#### ● Main circuit 480V AC

Contactor				Cooling fin to be combined				Continuous current (A)	Motor ratings	
3-pole, 2-element		3-pole, 3-element		3-pole, 2-element		3-pole, 3-element			3-phase 440V AC 60Hz	Full load current
Basic type	Basic ordering code	Basic type	Basic ordering code	Basic type	Basic ordering code	Basic type	Basic ordering code	Capacity (HP)	(A)	
<b>SS302H</b>	SS302H	<b>SS303H</b>	SS303H	<b>SX1-E12</b>	SY1E2	<b>SX1-E12</b>	SY1E2	30	–	–
<b>SS502H</b>	SS502H	<b>SS503H</b>	SS503H	<b>SX1-E12</b>	SY1E2	<b>SX1-E17</b>	SY1E7	50	10	24
<b>SS802H</b>	SS802H	<b>SS803H</b>	SS803H	<b>SX1-C12</b>	SY1C2	<b>SX1-C12</b>	SY1C2	80	20	48
<b>SS1202H</b>	SS1C2H	<b>SS1203H</b>	SS1C3H	<b>SX1-C12</b>	SY1C2	<b>SX1-C12</b>	SY1C2	120	20	48

#### ● Input voltage

100–120/200–240V AC  
100–120V AC  
200–240V AC

5–12V DC  
12–24V DC  
5V DC

12/24V DC  
5–24V DC

100–110/200–220V AC/DC  
12/24V AC/DC

Note: For details, see page 01/118.

### China Compulsory Certification (CCC)

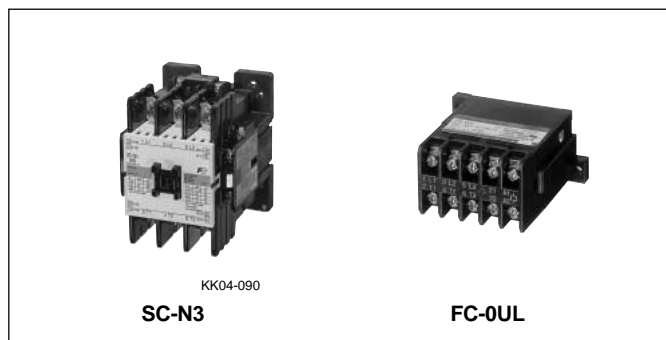
#### ■ Description

FUJI contactors and thermal overload relays are approved by CCC.  
Ratings, dimensions and wiring diagrams are same as standard type.

#### ■ Ordering information

When ordering CCC products, add the suffix (CCC) to the type number.

Example of magnetic contactor:  
SC-5-1 220V AC 50Hz 1NO+1NC (CCC)



### Magnetic contactors (AC operated, DC operated, With SUPER MAGNET)

AC operated		DC operated		With SUPER MAGNET		Certification number
Non reversing	Reversing	Non reversing	Reversing	Non reversing	Reversing	
Type	Type	Type	Type	Type	Type	
SC-03 SC-0 SC-05	SC-03RM SC-0RM SC-05RM	SC-03/G SC-0/G SC-05/G	SC-03RM/G SC-0RM/G SC-05RM/G	–	–	2003010304063432
SC-4-0 SC-4-1 SC-5-1	SC-4-0RM SC-4-1RM SC-5-1RM	SC-4-0/G SC-4-1/G SC-5-1/G	SC-4-0RM/G SC-4-1RM/G SC-5-1RM/G	–	–	2003010304063438
SC-N1 SC-N2	SC-N1RM SC-N2RM	SC-N1/G SC-N2/G	SC-N1RM/G SC-N2RM/G	SC-N1/SE SC-N2/SE	SC-N1RM/SE SC-N2RM/SE	2003010304063394
SC-N2S SC-N3	SC-N2SRM SC-N3RM	SC-N2S/G SC-N3/G	SC-N2SRM/G SC-N3RM/G	SC-N2S/SE SC-N3/SE	SC-N2SRM/SE SC-N3RM/SE	2003010304067046
SC-N4 SC-N5	SC-N4RM SC-N5RM	–	–	SC-N4/SE	SC-N4RM/SE	2003010304063396
SC-N6	SC-N6RM	–	–	–	–	2003010304063437
SC-N7	SC-N7RM	–	–	–	–	2003010304063436
SC-N8 SC-N10	SC-N8RM SC-N10RM	–	–	–	–	2003010304063435
SC-N11 SC-N12	SC-N11RM SC-N12RM	–	–	–	–	2003010304063393
SC-N14 SC-N16	SC-N14RM –	– –	– –	– –	– –	2003010304067052

# Magnetic Contactors and Starters

## CCC approved

### Magnetic contactors (With extra pick-up operating coil, with high capacity auxiliary contact)

With extra pick-up operating coil		With high capacity auxiliary contact (single button contact)		Certification number
Non reversing	Reversing	Non reversing	Reversing	
Type	Type	Type	Type	
SC-03/U SC-0/U SC-05/U	SC-03RM/U SC-0RM/U SC-05RM/U	SC-03H SC-0H SC-05H	SC-03HRM SC-0HRM SC-05HRM	2003010304063432
SC-4-0/U SC-4-1/U SC-5-1/U	SC-4-0RM/U SC-4-1RM/U SC-5-1RM/U	SC-4-0H SC-4-1H SC-5-1H	SC-4-0HRM SC-4-1HRM SC-5-1HRM	2003010304063438
SC-N1/U SC-N2/U	SC-N1RM/U SC-N2RM/U	SC-N1H SC-N2H	SC-N1HRM SC-N2HRM	2003010304063394
SC-N2S/U SC-N3/U	SC-N2SRM/U SC-N3RM/U	SC-N2SH SC-N3H	SC-N2SHRM SC-N3HRM	2003010304067046
SC-N4/U –	SC-N4RM/U –	SC-N4H SC-N5H	SC-N4HRM SC-N5HRM	2003010304063396
–	–	SC-N6H	SC-N6HRM	2003010304063437
–	–	SC-N7H	SC-N7HRM	2003010304063436
–	–	SC-N8H SC-N10H	SC-N8HRM SC-N10HRM	2003010304063435
–	–	SC-N11H SC-N12H	SC-N11HRM SC-N12HRM	2003010304063393

### FC series magnetic contactors

AC operated		DC operated		Certification number
Standard	UL, CSA approved	Standard	UL, CSA approved	
Type	Type	Type	Type	
FC-0 FC-0T FC-0S FC-0ST	FC-0UL FC-0TUL FC-0SUL FC-0STUL	FC-0/G FC-0T/G FC-0S/G FC-0ST/G	FC-0/GUL FC-0T/GUL – –	2003010304088942
FC-1 FC-1S	FC-1UL FC-1SUL	– –	– –	2003010304088935
FC-2S FC-3	FC-2SUL FC-3UL	– –	– –	2003010304088929
FC-4	FC-4UL	–	–	2003010304088923

**Optional units (Auxiliary contact block)**

Description		Type	Applicable	Certification number
Front mounting	Bifurcated contact	SZ-A40 SZ-A31 SZ-A22 SZ-A20 SZ-A11 SZ-A02	SC-03 to SC-N3 SH-4, 5	Certified by combination product in the applicable contactor/relay.
	Single button contact	SZ-A40H SZ-A31H SZ-A22H	SC-03 to SC-N3 SH-4, 5	
Side mounting	Bifurcated contact	SZ-AS1	SC-03 to SC-N3 SH-4, 5	
		SZ-AS2	SC-N4 to SC-N12	
	Single button contact	SZ-AS1H	SC-03 to SC-N3 SH-4, 5	
		SZ-AS2H	SC-N4 to SC-N12	
		SZ-AS3H	SC-N14, SC-N16	

**Thermal overload relays**

Standard type		With phase-loss protection device		Auto reset type		Certification number
On-contactor mounting type	Separate mounting type	On-contactor mounting type	Separate mounting type	On-contactor mounting type	Separate mounting type	
TR-0N/3	TR-0NH/3	TK-0N	TK-0NH	TR-0N/3A	TR-0NH/3A	2003010304063397
TR-5-1N/3	TR-5-1NH/3	TK-5-1N	TK-5-1NH	TR-5-1N/3A	TK-5-1NH/3A	2003010304063400
TR-N2/3	TR-N2H/3	TK-N2	TK-N2H	TR-N2/3A	TR-N2H/3A	2003010304063425
TR-N3/3 TR-N5/3	TR-N3H/3 -	TK-N3 TK-N5	TK-N3H	TR-N3/3A TR-N5/3A	TR-N3H/3A -	2003010304063404
TR-N6/3 TR-N7/3 TR-N8/3	TR-N6H/3 - -	TK-N6 TK-N7 TK-N8	TK-N6H - -	TR-N6/3A TR-N7/3A TR-N8/3A	TR-N6H/3A - -	2003010304063447
TR-N10/3	TR-N10H/3	TK-N10	TK-N10H	TR-N10/3A	TR-N10H/3A	2003010304063429
TR-N12/3	TR-N12H/3	TK-N12	TK-N12H	TR-N12/3A	TR-N12H/3A	2003010304063434
TR-N14/3	TR-N14H/3	TK-N14	TK-N14H	TR-N14/3A	TR-N14H/3A	2003010304063406

**Thermal overload relays (Quick operation)**

Quick operation		Certification number
On-contactor mounting type	Separate mounting type	
TR-0NQ	TR-0NQH	2003010304063397
TR-5-1NQ	TR-5-1NQH	2003010304063400
TR-N2Q	TR-N2QH	2003010304063425
TR-N3Q TR-N5Q	TR-N3QH -	2003010304063404

Note: Quick operation type with phase-loss protection device is available.

**Thermal overload relays (Used with FC series contactor)**

Type	Certification number
TR-0NF/3, TK-0NF, TR-0NFQ, TK-0NFQ	2003010304063397
TR-5-1N/3, TK-5-1N, TR-5-1NQ, TK-5-1NQ	2003010304063400
TR-N2F/3, TK-N2F, TR-N2FQ, TK-N2FQ	2003010304063425
TR-N3/3, TK-N3, TR-N3Q, TK-N3Q	2003010304063404

# Magnetic Contactors and Starters

## SJ series

### SJ series magnetic contactors and starters

Up to 4kW 440 Volts AC

#### ■ Description

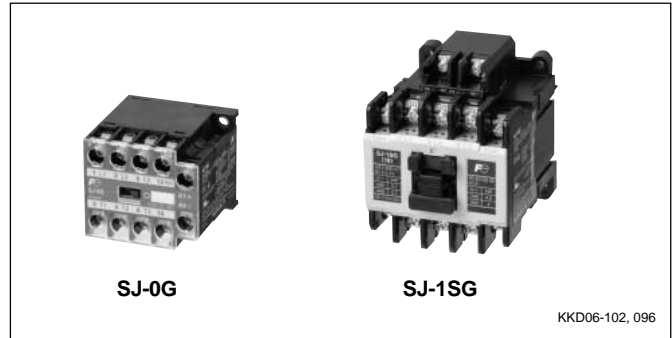
SJ type contactor adopts the operating magnet mechanism in which an electromagnet and a permanent magnet are combined, thus allowing the coil power consumption to be reduced.

The contactor can be operated directly by the DC output of programmable controller or electronic equipment.

Reversing contactor and starter are also available. SJ-1SG and SJ-1SWG types are applicable to three-phase motors of 220 Volts AC, 4.5kW which can be driven directly by semiconductor output.

#### ■ Features

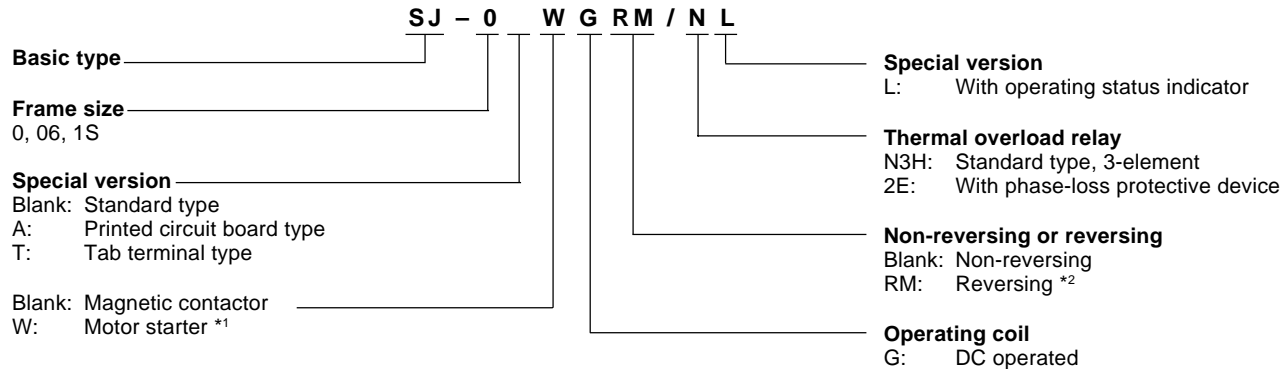
- Low power consumption (0G, 06G: 1.4W, 1SG: 2.4W) as well as standard DC-operated models
- High contact reliability  
Provided with bifurcated auxiliary contacts, thus enabling to be inputted to the electronic circuit directly. They can be used in low level circuit of 5V, 3mA.



KKD06-102, 096

- Surge suppression  
Provided with a built-in surge suppression circuit, which suppresses the coil surge voltage to 50V or less and 60V or less (SJ-1SG only)
- Rail mounting  
Direct snap-on mounting on 35mm rails

#### ■ Types number nomenclature



\*1 Magnetic contactors (SJ-□G) and thermal overload relays (TR-□N) have actual type names on nameplates.

\*2 Open type reversing magnetic contactors (SJ-□GRM) and motor starters (SJ-□WGRM) have no type name on their nameplates describing them as reversing types.

\*3 UL and CSA approved is standard.

■ Version

Description			Type	Frame size		
				0	06	1S
Contactor	Without indicating lamp	Non reversing Reversing	SJ-□G SJ-□GRM	● ●	● ●	● ●
	With indicating lamp	Non reversing Reversing	SJ-□G/L SJ-□GRM/L	- -	● ●	- -
Starter	Without indicating lamp	Non reversing with OLR*	SJ-□WG/3H	-	-	●
		Non reversing with TR-0N/3Z716	SJ-□WG/N3H	●	●	-
Non reversing with 2E OLR*		SJ-□WG/2E	●	●	●	
Reversing with OLR*		SJ-□WGRM/3H	-	-	●	
Reversing with TR-0N/3Z716		SJ-□WGRM/N3H	●	●	-	
Reversing with 2E OLR*		SJ-□WGRM/2E	●	●	●	
With indicating lamp	Non reversing with TR-0N/3Z716 Non reversing with 2E OLR* Reversing with TR-0N/3Z716 Reversing with 2E OLR*	SJ-□WG/N3HL	-	●	-	
		SJ-□WG/2EL	-	●	-	
		SJ-□WGRM/N3HL	-	●	-	
		SJ-□WGRM/2EL	-	●	-	

Note: "OLR" means thermal overload relay

□: Frame size 0, 06, 1S

■ Types and ratings (IEC 60947-4-1)

Motor capacity (kW) AC-3 3-phase		Operational current (A) AC-3 3-phase		Operational current (A) AC-1	Thermal current (A)	Auxiliary contact		Non-reversing Open Type	Reversing Open Type
200V 240V	380V 440V	200V 240V	380V 440V			NO	NC		
3	2.2	12	6	15	15	1	-	SJ-0G SJ-0G	- SJ-0GRM
3	2.2	12	6	15	15	2	1	SJ-06G SJ-06G	SJ-06GRM SJ-06GRM
4.5	4	18	9	25	25	2	-	SJ-1SG SJ-1SG	- SJ-1SGRM

■ Auxiliary contact ratings (IEC 60947-5-1)

Frame size	Rated thermal current (A)	Voltage (V AC)	Making & breaking capacity (A)	Rated operation current (A)		Min. operational voltage and current
				Inductive AC-15	Resistive AC-12	
0G	6	200-240 380-440	20 20	2 1	6 6	5V DC, 3mA
06G	6	200-240 380-440	20 20	2 1	6 (3) *1 6 (3) *1	5V DC, 3mA
1SG	10	200-240 380-440	33 16.5	3 1.5	8 5	5V DC, 3mA

\*1 ( ) indicates the current for additional auxiliary contact.

■ Thermal overload relays

Thermal overload relay No. of element	Type	Contactor to be used	Setting current		
			Range (A)		
3	TR-0N/3Z716 TK-0NZ716	SJ-0G SJ-06G SJ-06G/L	0.1 - 0.15	0.46 - 0.72	2.8 - 4.2
			0.13 - 0.2	0.64 - 0.96	4 - 6
			0.15 - 0.24	0.8 - 1.2	5 - 8
3	TR-5-1N/3 TK-5-1N	SJ-1SG	0.2 - 0.3	0.95 - 1.45	6 - 9
			0.24 - 0.36	1.4 - 2.2	7 - 11
			0.3 - 0.45	1.7 - 2.6	9 - 13*
			0.36 - 0.54	2.2 - 3.4	12 - 18*

Manual reset type is standard. Auto reset type is available on request.

Note: \* For SJ-1SWG only.



