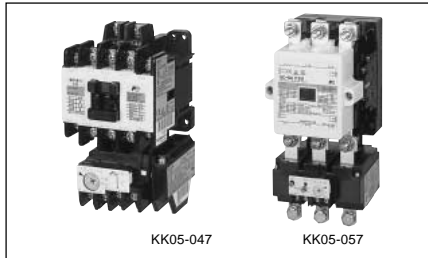


KK05-042

Starters with quick-operating overload relay

With the attached quick operating type O/L relay, this is suitable for protecting submersible pumps or compressor motors with a small heat capacity.
 See page 01/55.

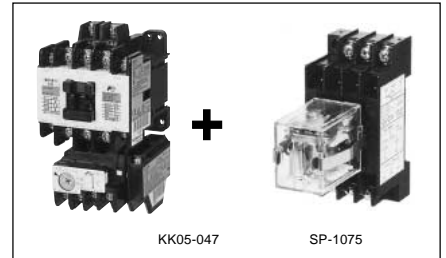


KK05-047

KK05-057

Starters with phase-loss protective device

The attached 2E thermal O/L relay protects against motor overload and as well as phase-loss.
 See page 01/56.



KK05-047

SP-1075

Starters with phase-loss and phase-sequence protective device

By combining 2E thermal O/L relay and phase-sequence relay, motor overload, phase-loss and phase-sequence protection is obtained.
 See page 01/58.



KKD06-010

Starters with on-off and RESET pushbuttons

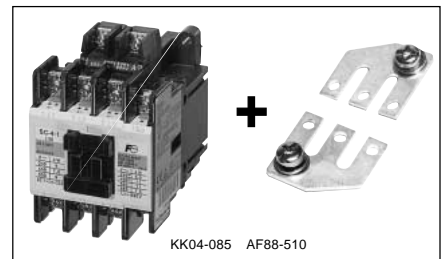
Pushbuttons for close and open are built in the enclosure. Suitable for simple operations.
 See page 01/60.



SD-704

Dust-tight/light-corrosion resistant type starters

The enclosure is dust-tight and corrosion-proof, and so is suitable for locations with dusty or corrosive atmospheres.
 See page 01/62.



KK04-085 AF88-510

Contactors for single-phase resistance load

This is a standard type magnetic contactor with a 3-phase parallel plate terminal. This is most suitable for on-off operation of electric heaters, water heaters and electric lights.
 See page 01/63.



KKD06-036

With single-button auxiliary contacts

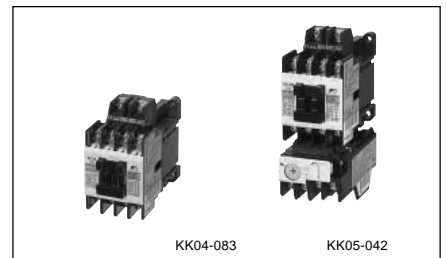
An auxiliary contact of a standard contactor is bifurcated. All SC-03H to SC-N12H contactor, however, feature single-button auxiliary contacts with a higher current rating than the contacts used by the standard contactor.
 See page 01/64.



AF95-240

With quick connection terminals

No removing terminal screw is required. When contactor and starters with the quick connection terminals are shipped, these screws are inserted in the terminals section but make no contact. It reduces the number of wiring steps. Terminals with finger protection enable a high level of safety.
 See page 01/65.



KK04-083

KK05-042

UL, CSA, TÜV and CCC approved motor starters and contactors

Many models of SC series conform to UL, CSA, TÜV and CCC requirements.
 See page 01/120.

Magnetic Contactors and Starters

SC and SW series

Quick selection guide/Open type

■ Types and ratings/Non-reversing, Open

Frame size		03	0	05	4-0	Further information
Max. motor capacity (kW)	200–240V	2.5	3.5	3.5	4.5	
	380–440V	4	5.5	5.5	7.5	
AC-3, IEC 60947-4-1	500–550V	4	5.5	5.5	7.5	
	600–660V	4	5.5	5.5	7.5	
Operational current (A)	200–240V	11	13	13	18	
	380–440V	9	12	12	16	
	500–550V	7	9	9	13	
	600–660V	5	7	7	9	
Operational current (A)	AC-1	20	20	20	25	
Conventional free air thermal current (A)		20	20	20	25	
Auxiliary contact arrangement		1NO 1NC	1NO 1NC	1NO+1NC 2NO, 2NC	1NO 1NC	
Standard	Contact Starter	SC-03 SW-03/3H	SC-0 SW-0/3H	SC-05 SW-05/3H	SC-4-0 SW-4-0/3H	Page 01/25
DC operated	Contact Starter	SC-03/G SW-03/G3H	SC-0/G SW-0/G3H	SC-05/G SW-05/G3H	SC-4-0/G SW-4-0/G3H	Page 01/41
OFF-delay release *1	Contact Starter	SC-03/G+SZ-DE□ SW-03/G3H+ SZ-DE□	SC-0/G+SZ-DE□ SW-0/G3H+ SZ-DE□	SC-05/G+SZ-DE□ SW-05/G3H+ SZ-DE□	SC-4-0/G+SZ-DE□ SW-4-0/G3H+ SZ-DE□	Page 01/46
With extra pick-up operating coil	Contact Starter	SC-03/U SW-03/U3H	SC-0/U SW-0/U3H	SC-05/U SW-05/U3H	SC-4-0/U SW-4-0/U3H	Page 01/47
Mechanical latch AC operated	Contact Starter	SC-03/V –	SC-0/V –	SC-05/V –	SC-4-0/V –	Page 01/48
Mechanical latch DC operated	Contact Starter	SC-03/VG –	SC-0/VG –	SC-05/VG –	SC-4-0/VG –	Page 01/46
Heavy starting duty	Contact Starter	– SW-03/3L	– SW-0/3L	– SW-05/3L	– SW-4-0/3L	Page 01/53
With quick operating overload relay	Contact Starter	– SW-03/3Q	– SW-0/3Q	– SW-05/3Q	– SW-4-0/3Q	Page 01/55
With phase-loss protective device	Contact Starter	– SW-03/2E	– SW-0/2E	– SW-05/2E	– SW-4-0/2E	Page 01/56
With phase-loss and phase sequence protective device *2	Contact Starter	– SW-03/2E+QE-□0N	– SW-0/2E+QE-□0N	– SW-05/2E+QE-□0N	– SW-4-0/2E+QE-□0N	Page 01/58
For single-phase resistance load	Contact Starter	SC-03+SZ-SP1 –	SC-0+SZ-SP1 –	SC-05+SZ-SP1 –	SC-4-0+SZ-SP2 –	Page 01/63
With quick connection terminals	Contact starter	SC-03Y SW-03Y	SC-0Y SW-0Y	SC-05Y SW-05Y	– –	Page 01/65
Thermal overload relay On-contactor mounting						Page 01/88
Standard		TR-0N/3	TR-0N/3	TR-0N/3	TR-5-1N/3	
Long time operation		TR-0NL/3	TR-0NL/3	TR-0NL/3	TR-5-1NL/3	
Quick operation		TR-0NQ	TR-0NQ	TR-0NQ	TR-5-1NQ	
Phase-loss protection		TK-0N	TK-0N	TK-0N	TK-5-1N	

Note: *1 Replace the □ mark in the type number by the operating voltage code.
100V AC: 100, 110V AC: 110, 200V AC: 200, 220V AC: 220

*2 Replace the □ mark in the type number by the operating voltage code.
200-220V AC: 2, 380-415V AC: 4

■ **Types and ratings/Non-reversing, Open**

Frame size		4-1	5-1	N1	N2	Further information
Max. motor capacity (kW)	200–240V	5.5	5.5	7.5	11	
	380–440V	11	11	15	18.5	
AC-3, IEC 60947-4-1	500–550V	11	11	15	18.5	
	600–660V	7.5	7.5	11	15	
Operational current (A)	200–240V	22	22	32	40	
	380–440V	22	22	32	40	
	500–550V	17	17	24	29	
	600–660V	9	9	15	19	
Operational current (A)	AC-1	32	32	50	60	
Conventional free air thermal current (A)		32	32	50	60	
Auxiliary contact arrangement		1NO 1NC	1NO+1NC, 2NO 2NO+2NC, 2NC	2NO+2NC 4NO+4NC	2NO+2NC 4NO+4NC	
Standard	Contactor Starter	SC-4-1 SW-4-1/3H	SC-5-1 SW-5-1/3H	SC-N1 SW-N1/3H	SC-N2 SW-N2/3H	Page 01/25
DC operated	Contactor Starter	SC-4-1/G SW-4-1/G3H	SC-5-1/G SW-5-1/G3H	SC-N1/G SW-N1/G3H	SC-N2/G SW-N2/G3H	Page 01/41
OFF-delay release *1	Contactor Starter	SC-4-1/G+SZ-DE□ SW-4-1/G3H+ SZ-DE□	SC-5-1/G+SZ-DE□ SW-5-1/G3H+ SZ-DE□	SC-N1/G+ SZ-N1/GDE SW-N1/G3H+ SZ-N1/GDE	SC-N2/G+ SZ-N1/GDE SW-N2/G3H+ SZ-N1/GDE	Page 01/46
With extra pick-up operating coil	Contactor Starter	SC-4-1/U SW-4-1/U3H	SC-5-1/U SW-5-1/U3H	SC-N1/U SW-N1/U3H	SC-N2/U SW-N2/U3H	Page 01/47
Mechanical latch AC operated	Contactor Starter	SC-4-1/V –	SC-5-1/V –	SC-N1/VS –	SC-N2/VS –	Page 01/48
Mechanical latch DC operated	Contactor Starter	SC-4-1/VG –	SC-5-1/VG –	SC-N1/VS –	SC-N2/VS –	Page 01/48
Heavy starting duty	Contactor Starter	– SW-4-1/3L	– SW-5-1/3L	– SW-N1/3L	– SW-N2/3L	Page 01/53
With quick operating overload relay	Contactor Starter	– SW-4-1/3Q	– SW-5-1/3Q	– SW-N1/3Q	– SW-N2/3Q	Page 01/55
With phase-loss protective device	Contactor Starter	– SW-4-1/2E	– SW-5-1/2E	– SW-N1/2E	– SW-N2/2E	Page 01/56
With phase-loss and phase sequence protective device *2	Contactor Starter	– SW-4-1/2E+QE-□0N	– SW-5-1/2E+QE-□0N	– SW-N1/2E+QE-□0N	– SW-N2/2E+QE-□0N	Page 01/58
For single-phase resistance load	Contactor Starter	SC-4-1+SZ-SP2 –	SC-5-1+SZ-SP2 –	SC-N1+SZ-SP3 –	SC-N2+SZ-SP3 –	Page 01/63
With quick connection terminals	Contactor starter	– –	SC-5-1Y SW-5-1Y	– –	– –	Page 01/65
Thermal overload relay On-contactor mounting						Page 01/88
Standard		TR-5-1N/3	TR-5-1N/3	TR-N2/3	TR-N2/3	
Long time operation		TR-5-1NL/3	TR-5-1NL/3	TR-N2L/3	TR-N2L/3	
Quick operation		TR-5-1NQ	TR-5-1NQ	TR-N2Q	TR-N2Q	
Phase-loss protection		TK-5-1N	TK-5-1N	TK-N2	TK-N2	

Note: *1 Replace the □ mark in the type number by the operating voltage code.
100V AC: 100, 110V AC: 110, 200V AC: 200, 220V AC: 220

*2 Replace the □ mark in the type number by the operating voltage code.
200-220V AC: 2, 380-415V AC: 4

Magnetic Contactors and Starters

SC and SW series

Quick selection guide/Open type

■ Types and ratings/Non-reversing, Open

Frame size		N2S	N3	N4	N5A	Further information
Max. motor capacity (kW)	200–240V	15	18.5	22	30	
	380–440V	22	30	40	55	
AC-3, IEC 60947-4-1	500–550V	25	37	37	55	
	600–660V	22	30	37	55	
Operational current (A)	200–240V	50	65	80	105	
	380–440V	50	65	80	105	
	500–550V	38	60	60	85	
	600–660V	26	38	44	64	
Operational current (A)	AC-1	80	100	135	150	
Conventional free air thermal current (A)		80	100	135	150	
Auxiliary contact arrangement		2NO+2NC 4NO+4NC	2NO+2NC 4NO+4NC	2NO+2NC 4NO+4NC	2NO+2NC 4NO+4NC	
Standard	Contactors Starter	SC-N2S SW-N2S/3H	SC-N3 SW-N3/3H	SC-N4 SW-N4/3H	SC-N5A SW-N5A/3H	Page 01/25
DC operated	Contactors Starter	SC-N2S/G SW-N2S/G3H	SC-N3/G SW-N3/G3H	SC-N4/G SW-N4/G3H	SC-N5/G SW-N5/G3H	Page 01/41
OFF-delay release	Contactors Starter	SC-N2S/G+ SZ-N2S/GDE SW-N2S/G3H+ SZ-N2S/GDE	SC-N3/G+ SZ-N2S/GDE SW-N3/G3H+ SZ-N2S/GDE	SC-N4/SE+ SZ-N5/DE SW-N4/SE3H+ SZ-N5/SEDE	SC-N5+ SZ-N5/DE SW-N5/3H+ SZ-N5/DE	Page 01/46
With extra pick-up operating coil *1	Contactors Starter	SC-N2S/U SW-N2S/U3H	SC-N3/U SW-N3/U3H	SC-N4/U SW-N4/U3H	– –	Page 01/47
Mechanical latch AC operated	Contactors Starter	SC-N2S/VS –	SC-N3/VS –	SC-N4/VS –	SC-N5/VS –	Page 01/48
Mechanical latch DC operated	Contactors Starter	SC-N2S/VS –	SC-N3/VS –	SC-N4/VS –	SC-N5/VS –	Page 01/48
Heavy starting duty	Contactors Starter	– SW-N2S/3L	– SW-N3/3L	– SW-N4/3L	– SW-N5A/3L	Page 01/53
With quick operating overload relay	Contactors Starter	– SW-N2S/3Q	– SW-N3/3Q	– SW-N4/3Q	– SW-N5A/3Q	Page 01/55
With phase-loss protective device	Contactors Starter	– SW-N2S/2E	– SW-N3/2E	– SW-N4/2E	– SW-N5A/2E	Page 01/56
With phase-loss and phase sequence protective device *2	Contactors Starter	– SW-N2S/2E+QE-□0N	– SW-N3/2E+QE-□0N	– SW-N4/2E+QE-□0N	– SW-N5A/2E+QE-□0N	Page 01/58
For single-phase resistance load	Contactors Starter	SC-N2S+SZ-SP4 –	SC-N3+SZ-SP4 –	SC-N4+SZ-SP5 –	SC-N5A+SZ-SP5 –	Page 01/63
Thermal overload relay On-contactor mounting						Page 01/88
Standard		TR-N3/3	TR-N3/3	TR-N5/3	TR-N5/3	
Long time operation		TR-N3L/3	TR-N3L/3	TR-N5L/3	TR-N5L/3	
Quick operation		TR-N3Q	TR-N3Q	TR-N5Q	TR-N5Q	
Phase-loss protection		TK-N3	TK-N3	TK-N5	TK-N5	

Note: *1 The standard types for frame sizes N6 and above (with SUPER MAGNET) hold without chattering even if the line voltage drops to 65% of its rated value.

*2 Replace the □ mark in the type number by the operating voltage code.

200-220V AC: 2, 380-415V AC: 4

■ **Types and ratings/Non-reversing, Open**

Frame size		N6	N7	N8	N10	Further information
Max. motor capacity (kW)	200–240V	37	45	55	65	
	380–440V	60	75	90	110	
	500–550V	60	75	130	132	
AC-3, CEC 60947-4-1	600–660V	60	90	132	132	
	200–240V	125	150	180	220	
	380–440V	125	150	180	220	
Operational current (A)	500–550V	90	120	180	200	
	600–660V	72	103	150	150	
	AC-1	150	200	260	260	
Conventional free air thermal current (A)		150	200	260	260	
Auxiliary contact arrangement		2NO+2NC 4NO+4NC	2NO+2NC 4NO+4NC	2NO+2NC 4NO+4NC	2NO+2NC 4NO+4NC	
Standard	Contactor Starter	SC-N6 SW-N6/3H	SC-N7 SW-N7/3H	SC-N8 SW-N8/3H	SC-N10 SW-N10/3H	Page 01/25
DC operated	Contactor Starter	SC-N6 SW-N6/3H	SC-N7 SW-N7/3H	SC-N8 SW-N8/3H	SC-N10 SW-N10/3H	Page 01/41
OFF-delay release	Contactor Starter	SC-N6+SZ-N6/DE SW-N6/3H+ SZ-N6/DE	SC-N7+SZ-N6/DE SW-N7/3H+ SZ-N6/DE	SC-N8+SZ-N8/DE SW-N8/3H+ SZ-N8/DE	SC-N10+SZ-N8/DE SW-N10/3H+ SZ-N8/DE	Page 01/46
With extra pick-up operating coil *1	Contactor Starter	– –	– –	– –	– –	– –
Mechanical latch/ AC operated	Contactor Starter	SC-N6/VS –	SC-N7/VS –	SC-N8/VS –	SC-N10/VS –	Page 01/48
Mechanical latch/ DC operated	Contactor Starter	SC-N6/VS –	SC-N7/VS –	SC-N8/VS –	SC-N10/VS –	Page 01/48
Heavy starting duty	Contactor Starter	– SW-N6/3L	– SW-N7/3L	– SW-N8/3L	– SW-N10/3L	Page 01/53
With quick operating overload relay	Contactor Starter	– –	– –	– –	– –	Page 01/55
With phase-loss protective device	Contactor Starter	– SW-N6/2E	– SW-N7/2E	– SW-N8/2E	– SW-N10/2E	Page 01/56
With phase-loss and phase sequence protective device *2	Contactor Starter	– SW-N6/2E+QE-□0N	– SW-N7/2E+QE-□0N	– SW-N8/2E+QE-□0N	– SW-N10/2E+QE-□0N	Page 01/58
For single-phase resistance load	Contactor Starter	SC-N6+SZ-SP7 –	SC-N7+SZ-SP7 –	SC-N8+SZ-SP8 –	SC-N10+SZ-SP8 –	Page 01/63
Thermal overload relay On-contactor mounting						Page 01/88
Standard		TR-N6/3	TR-N7/3	TR-N8/3	TR-N10/3	
Long time operation		TR-N6L/3	TR-N7L/3	TR-N10L/3	TR-N10L/3	
Quick operation		–	–	–	–	
Phase-loss protection		TK-N6	TK-N7	TK-N8	TK-N10	

Note: *1 The standard types for frame sizes N6 and above (with SUPER MAGNET) hold without chattering even if the line voltage drops to 65% of its rated value.

*2 Replace the □ mark in the type number by the operating voltage code.

200-220V AC: 2, 380-415V AC: 4

Magnetic Contactors and Starters

SC and SW series

Quick selection guide/Open type

■ Types and ratings/Non-reversing, Open

Frame size		N11	N12	N14	N16	Further information
Max. motor capacity (kW)	200–240V	90	120	180	220	
	380–440V	160	220	315	440	
AC-3, IEC 60947-4-1	500–550V	160	250	400	500	
	600–660V	200	300	480	500	
Operational current (A)	200–240V	300	400	600	800	
	380–440V	300	400	600	800	
	500–550V	230	360	600	720	
	600–660V	230	360	600	630	
Operational current (A)	AC-1	350	450	660	800	
Conventional free air thermal current (A)		350	450	660	800	
Auxiliary contact arrangement		2NO+2NC 4NO+4NC	2NO+2NC 4NO+4NC	2NO+2NC 4NO+4NC	2NO+2NC 4NO+4NC	
Standard	Contactors Starter	SC-N11 SW-N11/3H	SC-N12 SW-N12/3H	SC-N14 SW-N14/3H	SC-N16 –	Page 01/25
DC operated	Contactors Starter	SC-N11 SW-N11/3H	SC-N12 SW-N12/3H	SC-N14 SW-N14/3H	SC-N16 –	Page 01/41
OFF-delay release	Contactors Starter	SC-N11+SZ-N11/DE SW-N11/3H+ SZ-N11/DE	SC-N12+SZ-N11/DE SW-N12/3H+ SZ-N11/DE	SC-N14+SZ-N14/DE SW-N14/3H+ SZ-N14/DE	– – –	Page 01/46
With extra pick-up operating coil *1	Contactors Starter	– –	– –	– –	– –	– –
Mechanical latch AC operated	Contactors Starter	SC-N11/VS –	SC-N12/VS –	SC-N14/VS –	– –	Page 01/48
Mechanical latch DC operated	Contactors Starter	SC-N11/VS –	SC-N12/VS –	SC-N14/VS –	– –	Page 01/48
Heavy starting duty	Contactors Starter	– SW-N11/3L	– SW-N12/3L	– SW-N14/3L	– –	Page 01/53
With quick operating overload relay	Contactors Starter	– –	– –	– –	– –	– –
With phase-loss protective device	Contactors Starter	– SW-N11/2E	– SW-N12/2E	– SW-N14/2E	– –	Page 01/56
With phase-loss and phase sequence protective device *2	Contactors Starter	– SW-N11/2E+QE-□0N	– SW-N12/2E+QE-□0N	– SW-N14/2E+QE-□0N	– –	Page 01/58
For single-phase resistance load	Contactors Starter	SC-N11+SZ-SP9 –	SC-N12+SZ-SP9 –	SC-N14+SZ-SP10 –	SC-N16+SZ-SP10 –	Page 01/63
Thermal overload relay On-contactor mounting						Page 01/88
Standard		TR-N12/3	TR-N12/3	TR-N14/3	–	
Long time operation		TR-N12L/3	TR-N12L/3	TR-N14L/3	–	
Quick operation		–	–	–	–	
Phase-loss protection		TK-N12	TK-N12	TK-N14	–	

Note: *1 The standard types for frame sizes N6 and above (with SUPER MAGNET) hold without chattering even if the line voltage drops to 65% of its rated value.

*2 Replace the □ mark in the type number by the operating voltage code.

200-220V AC: 2, 380-415V AC: 4

■ Types and ratings/Non-reversing, Enclosed

Frame size		03	0	05	4-0	Further information
Max. motor capacity (kW)	200–240V	2.5	3.5	3.5	4.5	
	380–440V	4	5.5	5.5	7.5	
AC-3, IEC 60947-4-1	500–550V	4	5.5	5.5	7.5	
	600–660V	4	5.5	5.5	7.5	
Operational current (A)	200–240V	11	13	13	18	
	380–440V	9	12	12	16	
	500–550V	7	9	9	13	
	600–660V	5	7	7	9	
Operational current (A)	AC-1	20	20	20	25	
Conventional free air thermal current (A)		20	20	20	25	
Auxiliary contact arrangement		1NO 1NC	1NO 1NC	1NO+1NC 2NO, 2NC	1NO 1NC	
Standard	Contact Starter	SC-03C SW-03C/3H	SC-0C SW-0C/3H	SC-05C SW-05C/3H	SC-4-0C SW-4-0C/3H	Page 01/25
With extra pick-up operating coil	Contact Starter	– SW-03C/U3H	– SW-0C/U3H	– SW-05C/U3H	– SW-4-0C/U3H	Page 01/47
With phase-loss protective device	Contact Starter	– SW-03C/2E	– SW-0C/2E	– SW-05C/2E	– SW-4-0C/2E	Page 01/56
With ON-OFF/reset pushbuttons	Contact Starter	– SW-03P/3H	– SW-0P/3H	– SW-05P/3H	– SW-4-0P/3H	Page 01/60
Dust tight/light corrosion resistant	Contact Starter	– SW-03LG/3H	– SW-0LG/3H	– SW-05LG/3H	– SW-4-0LG/3H	Page 01/62
Thermal overload relay		See page 01/12. Same as the open types				Page 01/88

Frame size		4-1	5-1	N1	N2	Further information
Max. motor capacity (kW)	200–240V	5.5	5.5	7.5	11	
	380–440V	11	11	15	18.5	
AC-3, IEC 60947-4-1	500–550V	11	11	15	18.5	
	600–660V	7.5	7.5	11	15	
Operational current (A)	200–240V	22	22	32	40	
	380–440V	22	22	32	40	
	500–550V	17	17	24	29	
	600–660V	9	9	15	19	
Operational current (A)	AC-1	32	32	50	60	
Conventional free air thermal current (A)		32	32	50	60	
Auxiliary contact arrangement		1NO 1NC	1NO+1NC 2NO, 2NC	2NO+2NC 4NO+4NC	2NO+2NC 4NO+4NC	
Standard	Contact Starter	SC-4-1C SW-4-1C/3H	SC-5-1C SW-5-1C/3H	SC-N1C SW-N1C/3H	SC-N2C SW-N2C/3H	Page 01/25
With extra pick-up operating coil	Contact Starter	– SW-4-1C/U3H	– SW-5-1C/U3H	– SW-N1C/U3H	– SW-N2C/U3H	Page 01/47
With phase-loss protective device	Contact Starter	– SW-4-1C/2E	– SW-5-1C/2E	– SW-N1C/2E	– SW-N2C/2E	Page 01/56
With ON-OFF pushbuttons	Contact Starter	– –	– –	– SW-N1P/3H	– SW-N2P/3H	Page 01/60
With ON-OFF/reset pushbuttons	Contact Starter	– SW-4-1P/3H	– SW-5-1P/3H	– SW-N1PB/3H	– SW-N2PB/3H	Page 01/60
Dust tight/light corrosion resistant	Contact Starter	– SW-4-1LG/3H	– SW-5-1LG/3H	– SW-N1LG/3H	– SW-N2LG/3H	Page 01/62
Thermal overload relay		See page 01/12. Same as the open types				Page 01/88

Magnetic Contactors and Starters

SC and SW series

Quick selection guide/Enclosed type

■ Types and ratings/Non-reversing, Enclosed

Frame size		N2S	N3	N4	N5A	Further information
Max. motor capacity (kW)	200–240V	15	18.5	22	30	
	380–440V	22	30	40	55	
AC-3, IEC 60947-4-1	500–550V	25	37	37	55	
	600–660V	22	30	37	55	
Operational current (A)	200–240V	50	65	80	105	
	380–440V	50	65	80	105	
	500–550V	38	60	60	85	
	600–660V	26	38	44	64	
Operational current (A)	AC-1	80	100	135	150	
Conventional free air thermal current (A)		80	100	135	150	
Auxiliary contact arrangement		2NO+2NC 4NO+4NC	2NO+2NC 4NO+4NC	2NO+2NC 4NO+4NC	2NO+2NC 4NO+4NC	
Standard	Contact Starter	SC-N2SC SW-N2SC/3H	SC-N3C SW-N3C/3H	SC-N4C SW-N4C/3H	SC-N5AC SW-N5AC/3H	Page 01/25
With extra pick-up operating coil *	Contact Starter	– SW-N2SC/U3H	– SW-N3C/U3H	– SW-N4C/SE3H	– –	Page 01/47
With phase-loss protective device	Contact Starter	– SW-N2SC/2E	– SW-N3C/2E	– SW-N4C/2E	– SW-N5AC/2E	Page 01/56
With ON-OFF pushbuttons	Contact Starter	– SW-N2SP/3H	– SW-N3P/3H	– –	– –	Page 01/60
With ON-OFF and reset pushbuttons	Contact Starter	– SW-N2SPB/3H	– SW-N3PB/3H	– SW-N4PB/3H	– SW-N5PB/3H	Page 01/60
Dust tight/light corrosion resistant	Contact Starter	– SW-N2SLG/3H	– SW-N3LG/3H	– SW-N4LG/3H	– SW-N5ALG/3H	Page 01/62
Thermal overload relay		See page 01/13. Same as the open types				Page 01/88

Frame size		N6	N7	N8	N10	Further information
Max. motor capacity (kW)	200–240V	37	45	55	65	
	380–440V	60	75	90	110	
AC-3, IEC 60947-4-1	500–550V	60	75	130	132	
	600–660V	60	90	132	132	
Operational current (A)	200–240V	125	150	180	220	
	380–440V	125	150	180	220	
	500–550V	90	120	180	200	
	600–660V	72	103	150	150	
Operational current (A)	AC-1	150	200	260	260	
Conventional free air thermal current (A)		150	200	260	260	
Auxiliary contact arrangement		2NO+2NC 4NO+4NC	2NO+2NC 4NO+4NC	2NO+2NC 4NO+4NC	2NO+2NC 4NO+4NC	
Standard	Contact Starter	SC-N6C SW-N6C/3H	SC-N7C SW-N7C/3H	SC-N8C SW-N8C/3H	SC-N10C SW-N10C/3H	Page 01/25
With extra pick-up operating coil *	Contact Starter	– –	– –	– –	– –	– –
With phase-loss protective device	Contact Starter	– SW-N6C/2E	– SW-N7C/2E	– SW-N8C/2E	– SW-N10C/2E	Page 01/56
With ON-OFF pushbuttons	Contact Starter	– –	– –	– –	– –	– –
With ON-OFF and reset pushbuttons	Contact Starter	– SW-N6PB/3H	– –	– SW-N8PB/3H	– SW-N10PB/3H	Page 01/60
Dust tight/light corrosion resistant	Contact Starter	– SW-N6LG/3H	– SW-N7LG/3H	– SW-N8LG/3H	– SW-N10LG/3H	Page 01/62
Thermal overload relay		See page 01/13. Same as the open types				Page 01/88

Note: * The standard types for frame sizes N6 and above (with SUPER MAGNET) hold without chattering even if the line voltage drops to 65% of its rated value.

■ **Types and ratings/Non-reversing, Enclosed**

Frame size		N11	N12	N14	N16	Further information
Max. motor capacity (kW)	200–240V	90	120	180	–	
	380–440V	160	220	315	–	
AC-3, IEC 60947-4-1	500–550V	160	250	400	–	
	600–660V	200	300	480	–	
Operational current (A)	200–240V	300	400	600	–	
	380–440V	300	400	600	–	
	500–550V	230	360	600	–	
	600–660V	230	360	600	–	
Operational current (A)	AC-1	350	450	660	–	
Conventional free air thermal current (A)		350	450	660	–	
Auxiliary contact arrangement		2NO+2NC 4NO+4NC	2NO+2NC 4NO+4NC	2NO+2NC 4NO+4NC	– –	
Standard	Contactors Starter	SC-N11C SW-N11C/3H	SC-N12C SW-N12C/3H	SC-N14C SW-N14C/3H	– –	Page 01/25
With extra pick-up operating coil *	Contactors Starter	– –	– –	– –	– –	– –
With phase-loss protective device	Contactors Starter	– SW-N11C/2E	– SW-N12C/2E	– SW-N14C/2E	– –	Page 01/56
With ON-OFF pushbuttons	Contactors Starter	– –	– –	– –	– –	– –
With ON-OFF and reset pushbuttons	Contactors Starter	– –	– –	– –	– –	– –
Dust tight/light corrosion resistant	Contactors Starter	– –	– –	– –	– –	– –
Thermal overload relay		See page 01/14. Same as the open types				Page 01/88

Note: * The standard types for frame sizes N6 and above (with SUPER MAGNET) hold without chattering even if the line voltage drops to 65% of its rated value.

Magnetic Contactors and Starters

SC and SW series

Quick selection guide/Reversing, Open type

■ Types and ratings/Reversing, Open

Frame size		03	0	05	4-0	Further information
Max. motor capacity (kW)	200–240V	2.5	3.5	3.5	4.5	
	380–440V	4	5.5	5.5	7.5	
AC-3, IEC 60947-4-1	500–550V	4	5.5	5.5	7.5	
	600–660V	4	5.5	5.5	7.5	
Operational current (A)	200–240V	11	13	13	18	
	380–440V	9	12	12	16	
	500–550V	7	9	9	13	
	600–660V	5	7	7	9	
Conventional free air thermal current (A)		20	20	20	25	
Auxiliary contact arrangement		1NC×2 1NO×2	1NC×2 1NO×2	(1NO+1NC)×2 2NC×2	1NC×2 1NO×2	
Standard	Contactor Starter	SC-03RM SW-03RM/3H	SC-0RM SW-0RM/3H	SC-05RM SW-05RM/3H	SC-4-0RM SW-4-0RM/3H	Page 01/34
DC operated	Contactor Starter	SC-03RM/G SW-03RM/G3H	SC-0RM/G SW-0RM/G3H	SC-05RM/G SW-05RM/G3H	SC-4-0RM/G SW-4-0RM/G3H	Contact FUJI
Mechanical latch AC operated	Contactor Starter	SC-03RM/V –	SC-0RM/V –	SC-05RM/V –	SC-4-0RM/V –	Page 01/48
Mechanical latch DC operated	Contactor Starter	SC-03RM/VG –	SC-0RM/VG –	SC-05RM/VG –	SC-4-0RM/VG –	Page 01/48
With phase-loss protective device	Contactor Starter	– SW-03RM/2E	– SW-0RM/2E	– SW-05RM/2E	– SW-4-0RM/2E	Page 01/56
Thermal overload relay On-contactor mounting						Page 01/88
Standard Phase-loss protection		TR-0N/3 TK-0N	TR-0N/3 TK-0N	TR-0N/3 TK-0N	TR-5-1N/3 TK-5-1N	

Frame size		4-1	5-1	N1	N2	Further information
Max. motor capacity (kW)	200–240V	5.5	5.5	7.5	11	
	380–440V	11	11	15	18.5	
AC-3, IEC 60947-4-1	500–550V	11	11	15	18.5	
	600–660V	7.5	7.5	11	15	
Operational current (A)	200–240V	22	22	32	40	
	380–440V	22	22	32	40	
	500–550V	17	17	24	29	
	600–660V	9	9	15	19	
Conventional free air thermal current (A)		32	32	50	60	
Auxiliary contact arrangement		1NC×2 1NO×2	(1NO+1NC)×2,2NC×2 (2NO+2NC)×2	(2NO+2NC)×2 (3NO+3NC)×2	(2NO+2NC)×2 (3NO+3NC)×2	
Standard	Contactor Starter	SC-4-1RM SW-4-1RM/3H	SC-5-1RM SW-5-1RM/3H	SC-N1RM SW-N1RM/3H	SC-N2RM SW-N2RM/3H	Page 01/34
DC operated	Contactor Starter	SC-4-1RM/G SW-4-1RM/G3H	SC-5-1RM/G SW-5-1RM/G3H	SC-N1RM/G SW-N1RM/G3H	SC-N2RM/G SW-N2RM/G3H	Contact FUJI
Mechanical latch AC operated	Contactor Starter	SC-4-1RM/V –	SC-5-1RM/V –	SC-N1RM/VS –	SC-N2RM/VS –	Page 01/48
Mechanical latch DC operated	Contactor Starter	SC-4-1RM/VG –	SC-5-1RM/VG –	SC-N1RM/VS –	SC-N2RM/VS –	Page 01/48
With phase-loss protective device	Contactor Starter	– SW-4-1RM/2E	– SW-5-1RM/2E	– SW-N1RM/2E	– SW-N2RM/2E	Page 01/56
Thermal overload relay On-contactor mounting						Page 01/88
Standard Phase-loss protection		TR-5-1N/3 TK-5-1N	TR-5-1N/3 TK-5-1N	TR-N2/3 TK-N2	TR-N2/3 TK-N2	

Note: Auxiliary contact arrangements indicate the ones for types except mechanical latch types.