





■ Contactors and Starters

- Standard magnetic contactors and starters (non-reversing, open type)

Series Standard	Magnetic contactors	Magnetic starters	Max. motor capacity [HP]						Continuous current [A]	Auxiliary contact arrangement		UL File No.	
			Type	Type	Single-phase		3-phase squirrel-cage			Standard	On request		
					110-120V	220-240V	200V	220-240V					400-480V
NEW SC Series 	SC-03, 03Y	SW-03/3H, 03Y/3H	1/3	1	2	2	5	5	11	1NO	1NC	E42419	
	SC-0, 0Y	SW-0/3H, 0Y/3H	1/3	1	3	3	5	5	13	1NO	1NC		
	SC-05, 05Y	SW-05/3H, 05Y/3H	1/3	1	3	3	5	5	13	1NO+1NC	2NO, 2NC		
	SC-4-0	SW-4-0/3H	1	2	5	5	7 1/2	7 1/2	20	1NO	1NC		
	SC-4-1	SW-4-1/3H	1	2	5	5	10	10	20	1NO	1NC		
	SC-5-1, 5-1Y	SW-5-1/3H, 5-1Y/3H	1	2	5	5	10	10	20	1NO+1NC	2NO, 2NC		
NEO SC Series 	SC-N1	SW-N1/3H	2	5	7 1/2	10	25	25	50	2NO+2NC	4NO+4NC		
	SC-N2	SW-N2/3H	3	7 1/2	10	15	30	30	60	2NO+2NC	4NO+4NC		
	SC-N2S	SW-N2S/3H	3	10	15	20	40	40	80	2NO+2NC	4NO+4NC		
	SC-N3	SW-N3/3H	5	15	20	25	50	50	100	2NO+2NC	4NO+4NC		
	SC-N4	SW-N4/3H	7 1/2	15	25	30	60	60	135	2NO+2NC	4NO+4NC		
	SC-N5	SW-N5/3H	7 1/2	15	30	30	60	75	150	2NO+2NC	4NO+4NC		
	SC-N6	SW-N6/3H	10	20	40	40	75	100	150	2NO+2NC	4NO+4NC		
	SC-N7	SW-N7/3H	15	25	50	50	100	125	200	2NO+2NC	4NO+4NC		
	SC-N8	SW-N8/3H	-	-	60	60	150	150	260	2NO+2NC	4NO+4NC		
	SC-N10	SW-N10/3H	-	-	75	75	150	200	260	2NO+2NC	4NO+4NC		
	SC-N11	SW-N11/3H	-	-	100	100	200	250	350	2NO+2NC	4NO+4NC		
	SC-N12	SW-N12/3H	-	-	125	150	300	350	450	2NO+2NC	4NO+4NC		
SC-N14	SW-N14/3H	-	-	200	200	500	600	660	2NO+2NC	4NO+4NC			
SC-N16	-	-	-	250	300	600	700	800	2NO+2NC	4NO+4NC			

Note 1: Contactor ratings refer to the continuous current value.



● Reversing standard contactors and starters (reversing open type)

Series Standard	Magnetic contactors	Magnetic starters	Max. motor capacity [HP]				Continuous current [A]	UL File No.		
			Type	Type	3-phase squirrel-cage					
					200V	220-240V			440-480V	550-600V
NEW SC Series 	SC-03RM	SW-03RM/3H	2	2	5	5	11	E42419		
	SC-0RM	SW-0RM/3H	3	3	5	5	13			
	SC-05RM	SW-05RM/3H	3	3	5	5	13			
	SC-4-0RM	SW-4-0RM/3H	5	5	7 1/2	7 1/2	20			
	SC-4-1RM	SW-4-1RM/3H	5	5	10	10	20			
SC-5-1RM	SW-5-1RM/3H	5	5	10	10	20				
NEO SC Series 	SC-N1RM	SW-N1RM/3H	7 1/2	10	25	25	50			
	SC-N2RM	SW-N2RM/3H	10	15	30	30	60			
	SC-N2SRM	SW-N2SRM/3H	15	20	40	40	80			
	SC-N3RM	SW-N3RM/3H	20	25	50	50	100			
	SC-N4RM	SW-N4RM/3H	25	30	60	60	135			
	SC-N5RM	SW-N5RM/3H	30	30	60	75	150			
	SC-N6RM	SW-N6RM/3H	40	40	75	100	150			
	SC-N7RM	SW-N7RM/3H	50	50	100	125	200			
	SC-N8RM	SW-N8RM/3H	60	60	150	150	260			
	SC-N10RM	SW-N10RM/3H	75	75	150	200	260			
SC-N11RM	SW-N11RM/3H	100	100	200	250	350				
SC-N12RM	SW-N12RM/3H	125	150	300	350	450				
SC-N14RM	SW-N14RM/3H	200	200	500	600	660				

Notes 1: Contactor ratings refer to the continuous current value.



2: To use type -03 to -N3 "reversing" magnetic contactors or starters as UL or CSA approved equipment, it is necessary to replace the operation circuit wires with UL or CSA approved ones.

● DC operated magnetic contactors and starters (non-reversing, open type)

Series Standard	Magnetic contactors	Magnetic starters	Max. motor capacity [HP]						Continuous current [A]	UL File No.	
			Type	Type	Single-phase		3-phase squirrel-cage				
					110-120V	220-240V	200V	220-240V			440-480V
NEW SC Series 	SC-03/G, 03Y/G	SW-03/G3H, 03Y/G3H	1/3	1	2	2	5	5	11	E42419	
	SC-0/G, 0Y/G	SW-0/G3H, 0Y/G3H	1/3	1	3	3	5	5	13		
	SC-05/G, 05Y/G	SW-05/G3H, 05Y/G3H	1/3	1	3	3	5	5	13		
	SC-4-0/G	SW-4-0/G3H	1	2	5	5	7 1/2	7 1/2	20		
	SC-4-1/G	SW-4-1/G3H	1	2	5	5	10	10	20		
SC-5-1/G, 5-1Y/G	SW-5-1/G3H, 5-1Y/G3H	1	2	5	5	10	10	20			
NEO SC Series 	SC-N1/G	SW-N1/G3H	2	5	7 1/2	10	25	25	50		
	SC-N2/G	SW-N2/G3H	3	7 1/2	10	15	30	30	60		
	SC-N2S/G	SW-N2S/G3H	3	10	15	20	40	40	80		
	SC-N3/G	SW-N3/G3H	5	15	20	25	50	50	100		
	SC-N1/SE	SW-N1/SE3H	2	5	7 1/2	10	25	25	50		
	SC-N2/SE	SW-N2/SE3H	3	7 1/2	10	15	30	30	60		
	SC-N2S/SE	SW-N2S/SE3H	3	10	15	20	40	40	80		
	SC-N3/SE	SW-N3/SE3H	5	15	20	25	50	50	100		
	SC-N4/SE	SW-N4/SE3H	7 1/2	15	25	30	60	60	135		
	SC-N5	SW-N5/3H	7 1/2	15	30	30	60	75	150		
	SC-N6	SW-N6/3H	10	20	40	40	75	100	150		
	SC-N7	SW-N7/3H	15	25	50	50	100	125	200		
	SC-N8	SW-N8/3H	-	-	60	60	150	150	260		
	SC-N10	SW-N10/3H	-	-	75	75	150	200	260		
	SC-N11	SW-N11/3H	-	-	100	100	200	250	350		
	SC-N12	SW-N12/3H	-	-	125	150	300	350	450		
SC-N14	SW-N14/3H	-	-	200	200	500	600	660			
SC-N16	-	-	-	250	300	600	700	800			

Note 1: Contactor ratings refer to the continuous current value.

● Magnetic starters with 2E thermal overload relay (open type)


Series Standard	Non reversing Type	Reversing Type	DC operated (non reversing) Type	Max. motor capacity [HP] ^{*1}				Continuous current [A]	UL File No.
				3-phase squirrel-cage					
				200V	220-240V	440-480V	550-600V		
NEW SC Series 	SW-03/2E, 03Y/2E	SW-03RM/2E	SW-03/G2E, 03Y/G2E	2	2	5	5	11	E42419
	SW-0/2E, 0Y/2E	SW-0RM/2E	SW-0/G2E, 0Y/G2E	3	3	5	5	13	
	SW05/2E, 05Y/2E	SW-05RM/2E	SW-05/G2E, 05Y/G2E	3	3	5	5	13	
	SW-4-0/2E	SW-4-0RM/2E	SW-4-0/G2E	5	5	7 1/2	7 1/2	20	
	SW-4-1/2E	SW-4-1RM/2E	SW-4-1/G2E	5	5	10	10	20	
	SW-5-1/2E, 5-1Y/2E	SW-5-1RM/2E	SW-5-1/G2E, 5-1Y/G2E	5	5	10	10	20	
NEO SC Series 	SW-N1/2E	SW-N1RM/2E	SW-N1/G2E, SW-N1/SE2E	7 1/2	10	25	25	50	
	SW-N2/2E	SW-N2RM/2E	SW-N2/G2E, SW-N2/SE2E	10	15	30	30	60	
	SW-N2S/2E	SW-N2SRM/2E	SW-N2S/G2E, SW-N2S/SE2E	15	20	40	40	80	
	SW-N3/2E	SW-N3RM/2E	SW-N3/G2E, SW-N3/SE2E	20	25	50	50	100	
	SW-N4/2E	SW-N4RM/2E	SW-N4SE/2E	25	30	60	60	135	
	SW-N5/2E	SW-N5RM/2E	SW-N5/2E	30	30	60	75	150	
	SW-N6/2E	SW-N6RM/2E	SW-N6/2E	40	40	75	100	150	
	SW-N7/2E	SW-N7RM/2E	SW-N7/2E	50	50	100	125	200	
	SW-N8/2E	SW-N8RM/2E	SW-N8/2E	60	60	150	150	260	
	SW-N10/2E	SW-N10RM/2E	SW-N10/2E	75	75	150	200	260	
	SW-N11/2E	SW-N11RM/2E	SW-N11/2E	100	100	200	250	350	
	SW-N12/2E	SW-N12RM/2E	SW-N12/2E	125	150	300	350	450	
	SW-N14/2E	SW-N14RM/2E	SW-N14/2E	200	200	500	600	660	

Notes 1: Contactor ratings refer to the continuous current value.

2: To use type -03 to -N3 "reversing" magnetic contactors or starters as UL or CSA approved equipment, it is necessary to replace the operation circuit wires with UL or CSA approved ones.


*1 Max. motor capacity for single-phase motors is the same as that for standard magnetic starters.

● Standard auxiliary relays

Series Standard	Type	Poles	Contact arrangement	Continuous current [A]	Operational current [A]						Code		UL File No.
					AC			DC			AC	DC	
					Volts [V]	Make	Break	Volts [V]	Make	Break			
NEW SC Series 	SH-4, SH-4Y	4	4NO, 3NO+1NC, 2NO+2NC	10	120	60	6	125	0.55	0.55	A600	Q300	E44592
					240	30	3						
					480	15	1.5						
					600	12	1.2						
		8 ^{*1}	4NO, 3NO+1NC, 2NO+2NC, 5NO+3NC, 4NO+4NC	10	120	60	6	125	0.55	0.55			
					240	30	3						
					480	15	1.5						
					600	12	1.2						
	SH-5	5	5NO, 4NO+1NC, 3NO+2NC, 2NO+3NC, 1NO+4NC, 5NC	10	120	60	6	125	0.55	0.55			
					240	30	3						
					480	15	1.5						
					600	12	1.2						

*1 8-contact products of SH-4(Y) type are a combination of SH-4(Y) (4 contacts) and auxiliary contact block SZ-A□(Y) (Front mounting, 4 contacts).

● DC operated auxiliary relays

Series Standard	Type	Poles	Contact arrangement	Continuous current [A]	Operational current [A]						Code		UL File No.
					AC			DC			AC	DC	
					Volts [V]	Make	Break	Volts [V]	Make	Break			
NEW SC Series 	SH-4/G, SH-4Y/G	4	4NO, 3NO+1NC, 2NO+2NC	10	120	60	6	125	0.55	0.55	A600	Q300	E44592
					240	30	3						
					480	15	1.5						
					600	12	1.2						
		8 ^{*1}	8NO, 7NO+1NC, 6NO+2NC, 5NO+3NC, 4NO+4NC	10	120	60	6	125	0.55	0.55			
					240	30	3						
					480	15	1.5						
					600	12	1.2						
	SH-5/G	5	5NO, 4NO+1NC, 3NO+2NC, 2NO+3NC, 1NO+4NC, 5NC	10	120	60	6	125	0.55	0.55			
					240	30	3						
					480	15	1.5						
					600	12	1.2						

*1 8-contact products of SH-4(Y)/G type are a combination of SH-4(Y)/G (4 contacts) and auxiliary contact block SZ-A□(Y) (Front mounting, 4 contacts).

- Standard application of built-in thermal overload relays of magnetic contactors
(protection coordination with over current relay)

Type of magnetic contactor	SW-03/3H, 03Y/3H	SW-0/3H, 0Y/3H	SW-05/3H, 0Y/3H	SW-4-0/3H	SW-4-1/3H	SW-5-1/3H, 5-1Y/3H	SW-N1/3H	SW-N2/3H	SW-N2S/3H	SW-N3/3H	
Type of built-in thermal overload relay	TR-0N/3, 0NY/3			TR-5-1N/3, 5-1NY/3			TR-2N/3		TR-3N/3		
Heat element ratings of built-in thermal overload relay [A]	0.1 - 0.15	0.1 - 0.15		0.1 - 0.15							
	0.13 - 0.2	0.13 - 0.2		0.13 - 0.2							
	0.15 - 0.24	0.15 - 0.24		0.15 - 0.24							
	0.2 - 0.3	0.2 - 0.3		0.2 - 0.3							
	0.24 - 0.36	0.24 - 0.36		0.24 - 0.36							
	0.3 - 0.45	0.3 - 0.45		0.3 - 0.45							
	0.36 - 0.54	0.36 - 0.54		0.36 - 0.54							
	0.48 - 0.72	0.48 - 0.72		0.48 - 0.72							
	0.64 - 0.96	0.64 - 0.96		0.64 - 0.96							
	0.8 - 1.2	0.8 - 1.2		0.8 - 1.2							
	0.95 - 1.45	0.95 - 1.45		0.95 - 1.45							
	1.4 - 2.2	1.4 - 2.2		1.4 - 2.2							
	1.7 - 2.6	1.7 - 2.6		1.7 - 2.6							
	2.2 - 3.4	2.2 - 3.4		2.2 - 3.4							
	2.8 - 4.2	2.8 - 4.2		2.8 - 4.2							
	4 - 6	4 - 6		4 - 6							
	5 - 8	5 - 8		5 - 8							
		6 - 9		6 - 9							
		7 - 11		7 - 11							
				9 - 13							
				12 - 18							
							4 - 6	4 - 6			
							5 - 8	5 - 8			
							6 - 9	6 - 9			
							7 - 11	7 - 11	7 - 11	7 - 11	
						9 - 13	9 - 13	9 - 13	9 - 13		
						12 - 18	12 - 18	12 - 18	12 - 18		
						18 - 26	18 - 26	18 - 26	18 - 26		
						24 - 36	24 - 36	24 - 36	24 - 36		
								28 - 40	28 - 40		
								32 - 42			
								34 - 50	34 - 50		
								45 - 65	45 - 65		
									48 - 68		

¹ Use UL or CSA approved fuses. However, the current values for current limiting fuses are when time-delay fuses (rated current of heat element of thermal overload relay: max. 2.8 to 4.2A) or instantaneous fuses (rated current of heat element of thermal overload relay: min. 4 to 6A) is used. Figures in [] are the rating of CSA approved fuses.

² Use UL or CSA approved molded case circuit breakers. However, the working voltage is 480V or less when combined with SW-03(Y)/3H to -05(Y)/3H types; 600V or less when combined with SW-4-0/3H or greater starters.

SW-N4/3H	SW-N5/3H	SW-N6/3H	SW-N7/3H	SW-N8/3H	SW-N10/3H	SW-N11/3H	SW-N12/3H	SW-N14/3H	max ¹ Current limiting fuses	max ² Molded case circuit breaker	
TR-4N/UL	TR-6N/UL			TR-8N/UL	TR-10N/UL	TR-11N/UL	TR-12N/UL	TR-N14/3	Operational current [A]	Operational current [A]	UL approved FUJI auto breaker types
									1 [15]	15	BU-3EHC
									1 [15]	15	BU-3EHC
									1 [15]	15	BU-3EHC
									1 [15]	15	BU-3EHC
									2 [15]	15	BU-3EHC
									2 [15]	15	BU-3EHC
									3 [15]	15	BU-3EHC
									3 [15]	15	BU-3EHC
									3 [15]	15	BU-3EHC
									5 [15]	15	BU-3EHC
									5 [15]	15	BU-3EHC
									10 [15]	15	BU-3EHC
									10 [15]	15	BU-3EHC
									15	15	BU-3EHC
									15	15	BU-3EHC
									15	15	BU-3EHC
									20	15	BU-3EHC
									30	15	BU-3EHC
									30	15	BU-3EHC
									30	20	BU-3EHC
									50	40	BU-ESB
									20	60	BU-ESB
									20	60	BU-ESB
									20	60	BU-ESB
									20	60	BU-ESB
									20	60	BU-ESB
									50	60	BU-ESB
18 - 26	18 - 26								50	60	BU-ESB
24 - 36	24 - 36								50	60	BU-ESB
28 - 40	28 - 40								70	70	BU-ESB
									70	70	BU-ESB
34 - 50	34 - 50								70	70	BU-ESB
45 - 65	45 - 65								125	125	BU-FSB
									125	125	BU-FSB
53 - 80	53 - 80								150	125	BU-FSB
	65 - 95								150	125	BU-FSB
	85 - 105								150	125	BU-FSB
		45 - 65	45 - 65						150	175	BU-JSB
		53 - 80	53 - 80						150	175	BU-JSB
		65 - 95	65 - 95						150	175	BU-JSB
		85 - 125	85 - 125						150	175	BU-JSB
			110 - 160						200	225	BU-JSB
				65 - 95					225	400	BU-KSB
				85 - 125					225	400	BU-KSB
				110 - 160					225	400	BU-KSB
				125 - 185					225	400	BU-KSB
					85 - 125				300	400	BU-KSB
					110 - 160	110 - 160	110 - 160		300	400	BU-KSB
					125 - 185	125 - 185	125 - 185		300	400	BU-KSB
					160 - 240	160 - 240	160 - 240		300	400	BU-KSB
						200 - 300	200 - 300		450	600	BU-LSB
							240 - 360		450	600	BU-LSB
							300 - 450		450	600	BU-LSB
								240 - 360	800	800	BU-MSB
								300 - 450	800	800	BU-MSB
								400 - 600	800	800	BU-MSB

● Standard thermal overload relays (with 3 heat elements), 2E thermal overload relays

Series	Type	No. of heat elements	Reset	Auxiliary contact	Heat element rating [A] ^{*1}	Protection coordination		Applicable magnetic starter types	UL File No.	
						Max. rated current of current limiting fuse [A] ^{*2}	Max. rated current of molded case circuit breaker [A]			
NEW SC Series	TR-0N/3, TR-0NY/3 ^{*4} TK-0N ^{*4} TK-0NY ^{*4}	3	Manual/Auto	1NO+1NC	0.1 - 0.15 (0.1)	1 (15)	15	SW-0/3H, 03Y/3H ^{*3} [SW-0/2E, 03Y/2E]	E44592	
					0.13 - 0.2 (0.13)	1 (15)	15			
					0.15 - 0.24 (0.15)	1 (15)	15			
					0.2 - 0.3 (0.2)	1 (15)	15			
					0.24 - 0.36 (0.24)	2 (15)	15			
					0.3 - 0.45 (0.3)	2 (15)	15			
					0.36 - 0.54 (0.36)	3 (15)	15			
					0.48 - 0.72 (0.48)	3 (15)	15			
					0.64 - 0.96 (0.64)	3 (15)	15			
					0.8 - 1.2 (0.8)	5 (15)	15			
					0.95 - 1.45 (0.95)	5 (15)	15			
					1.4 - 2.2 (1.4)	10 (15)	15			
					1.7 - 2.6 (1.7)	10 (15)	15			
					2.2 - 3.4 (2.2)	15	15			
					2.8 - 4.2 (2.8)	15	15			
					4 - 6 (4)	15	15			
					5 - 8 (5)	20	15			
					0.1 - 0.15 (0.1)	1 (15)	15			SW-0/3H, 0Y/3H ^{*3} SW-05/3H, 05Y/3H ^{*3} [SW-0/2E, 0Y/2E] [SW-05/2E, 05Y/2E]
					0.13 - 0.2 (0.13)	1 (15)	15			
					0.15 - 0.24 (0.15)	1 (15)	15			
					0.2 - 0.3 (0.2)	1 (15)	15			
	0.24 - 0.36 (0.24)	2 (15)	15							
	0.3 - 0.45 (0.3)	2 (15)	15							
	0.36 - 0.54 (0.36)	3 (15)	15							
	0.48 - 0.72 (0.48)	3 (15)	15							
	0.64 - 0.96 (0.64)	3 (15)	15							
	0.8 - 1.2 (0.8)	5 (15)	15							
	0.95 - 1.45 (0.95)	5 (15)	15							
	1.4 - 2.2 (1.4)	10 (15)	15							
	1.7 - 2.6 (1.7)	10 (15)	15							
	2.2 - 3.4 (2.2)	15	15							
	2.8 - 4.2 (2.8)	15	15							
	4 - 6 (4)	15	15							
	5 - 8 (5)	20	15							
	6 - 9 (6)	30	15							
	7 - 11 (7)	30	15							
	0.1 - 0.15 (0.1)	1 (15)	15	SW-4-0/3H, SW-4-1/3H, SW-5-1/3H, 5-1Y/3H [SW-4-0/2E SW-4-1/2E SW-5-1/2E, 5-1Y/2E]						
	0.13 - 0.2 (0.13)	1 (15)	15							
	0.15 - 0.24 (0.15)	1 (15)	15							
	0.2 - 0.3 (0.2)	1 (15)	15							
	0.24 - 0.36 (0.24)	2 (15)	15							
	0.3 - 0.45 (0.3)	2 (15)	15							
0.36 - 0.54 (0.36)	3 (15)	15								
0.48 - 0.72 (0.48)	3 (15)	15								
0.64 - 0.96 (0.64)	3 (15)	15								
0.8 - 1.2 (0.8)	5 (15)	15								
0.95 - 1.45 (0.95)	5 (15)	15								
1.4 - 2.2 (1.4)	10 (15)	15								
1.7 - 2.6 (1.7)	10 (15)	15								
2.2 - 3.4 (2.2)	15	15								
2.8 - 4.2 (2.8)	15	15								
4 - 6 (4)	15	15								
5 - 8 (5)	20	15								
6 - 9 (6)	30	15								
7 - 11 (7)	30	15								
9 - 13 (9)	30	20								
12 - 18 (12)	50	40								
TR-5-1N/3 TR-5-1NY/3 ^{*4} TK-5-1N ^{*4} TK-5-1NY ^{*4}	3	Manual/Auto	1NO+1NC	4 - 6 (4)	20	60	SW-N1/3H [SW-N1/2E]	E42419		
0.13 - 0.2 (0.13)	1 (15)	15								
0.15 - 0.24 (0.15)	1 (15)	15								
0.2 - 0.3 (0.2)	1 (15)	15								
0.24 - 0.36 (0.24)	2 (15)	15								
0.3 - 0.45 (0.3)	2 (15)	15								
0.36 - 0.54 (0.36)	3 (15)	15								
0.48 - 0.72 (0.48)	3 (15)	15								
0.64 - 0.96 (0.64)	3 (15)	15								
0.8 - 1.2 (0.8)	5 (15)	15								
0.95 - 1.45 (0.95)	5 (15)	15								
1.4 - 2.2 (1.4)	10 (15)	15								
1.7 - 2.6 (1.7)	10 (15)	15								
2.2 - 3.4 (2.2)	15	15								
2.8 - 4.2 (2.8)	15	15								
4 - 6 (4)	15	15								
5 - 8 (5)	20	15								
6 - 9 (6)	30	15								
7 - 11 (7)	30	15								
9 - 13 (9)	20	60								
12 - 18 (12)	50	60								
18 - 26 (18)	50	60								
24 - 36 (24)	50	60								
NEO SC Series	TR-N2/3 ^{*4} TK-N2 ^{*4}	3	Manual	1NO+1NC	4 - 6 (4)	20	60			
					5 - 8 (5)	20	60			
					6 - 9 (6)	20	60			
					7 - 11 (7)	20	60			
					9 - 13 (9)	20	60			
					12 - 18 (12)	50	60			
					18 - 26 (18)	50	60			
					24 - 36 (24)	50	60			

Series	Type	No. of heat elements	Reset	Auxiliary contact	Heat element rating [A] ¹	Protection coordination		Applicable magnetic starter types	UL File No.
						Max. rated current of current limiting fuse [A] ²	Max. rated current of molded case circuit breaker [A]		
NEO SC Series	TR-N2/3 ⁴ [TK-N2] ⁴	3	Manual	1NO+1NC	4 - 6 (4)	20	60	SW-N2/3H [SW-N2/2E]	E42419
					5 - 8 (5)	20	60		
					6 - 9 (6)	20	60		
					7 - 11 (7)	20	60		
					9 - 13 (9)	20	60		
					12 - 18 (12)	50	60		
					18 - 26 (18)	50	60		
					24 - 36 (24)	50	60		
					32 - 42 (32)	70	70		
					7 - 11 (7)	20	60		
	9 - 13 (9)	20	60						
	12 - 18 (12)	50	60						
	18 - 26 (18)	50	60						
	24 - 36 (24)	50	60						
	28 - 40 (28)	70	70						
	34 - 50 (34)	70	70						
	45 - 65 (45)	125	125						
	7 - 11 (7)	20	60	SW-N3/3H [SW-N3/2E]					
	9 - 13 (9)	20	60						
	12 - 18 (12)	50	60						
	18 - 26 (18)	50	60						
	24 - 36 (24)	50	60						
	28 - 40 (28)	70	70						
	34 - 50 (34)	70	70						
	45 - 65 (45)	125	125						
	48 - 68 (48)	125	125						
	7 - 11 (7)	20	60		SW-N4/3H [SW-N4/2E]				
	9 - 13 (9)	20	60						
	12 - 18 (12)	50	60						
	18 - 26 (18)	50	60						
	24 - 36 (24)	50	60						
	28 - 40 (28)	70	70						
	34 - 50 (34)	70	70						
	45 - 65 (45)	125	125						
	53 - 80 (53)	150	125						
	7 - 11 (7)	20	60	SW-N5/3H [SW-N5/2E]					
	9 - 13 (9)	20	60						
	12 - 18 (12)	50	60						
	18 - 26 (18)	50	60						
	24 - 36 (24)	50	60						
	28 - 40 (28)	70	70						
	34 - 50 (34)	70	70						
	45 - 65 (45)	125	125						
	53 - 80 (53)	150	125						
	65 - 95 (65)	180	125						
	45 - 65 (45)	150	175	SW-N6/3H [SW-N6/2E]					
	53 - 80 (53)	150	175						
	65 - 95 (65)	150	175						
85 - 125 (85)	150	175							
45 - 65 (45)	150	175	SW-N7/3H [SW-N7/2E]						
53 - 80 (53)	150	175							
65 - 95 (65)	150	175							
85 - 125 (85)	150	175							
110 - 160 (110)	200	225	SW-N8/3H [SW-N8/2E]						
53 - 80 (53)	225	400							
65 - 95 (65)	225	400							
85 - 125 (85)	225	400							
110 - 160 (110)	225	400							
125 - 185 (125)	225	400	SW-N10/3H [SW-N10/2E]						
85 - 125 (85)	300	400							
110 - 160 (110)	300	400							
125 - 185 (125)	300	400							
160 - 240 (160)	300	400							
110 - 160 (110)	300	400	SW-N11/3H [SW-N11/2E]						
125 - 185 (125)	300	400							
160 - 240 (160)	300	400							
200 - 300 (200)	450	600							
110 - 160 (110)	300	400	SW-N12/3H [SW-N12/2E]						
125 - 185 (125)	300	400							
160 - 240 (160)	300	400							
200 - 300 (200)	450	600							
240 - 360 (240)	450	600							
300 - 450 (300)	450	600	SW-N14/3H ³ [SW-N14/2E]						
240 - 360 (240)	800	800							
300 - 450 (300)	800	800							
400 - 600 (400)	800	800							


¹ Parenthesized values in the "Heat element rating" column are the nominal rating to be specified at order placement.

² Parenthesized values in the "Fuse rating" column are for CSA approved starters.

³ 480V or less for a combination of SW-03(Y)/3H, -0(Y)/3H or -05(Y)/3H, SW-N14/3H and molded case circuit breaker

⁴ Separate mounting is available.

● SC and SW series optional units

Series Standard	Name	Type	Specification	Applicable types	UL File No.	
NEW SC Series NEO SC Series 	Auxiliary contact block (Front mounting)	SZ-A40	4NO	SC-03, 0, 05, 4-0, 4-1, 5-1 ^{*1} , SH-4 ^{*3} , 5	E42419	
		SZ-A31	3NO+1NC	SC-N1, N2, N2S, N3		
		SZ-A22	2NO+2NC			
		SZ-A20	2NO			
		SZ-A11	1NO+1NC			
		SZ-A02	2NC			
	Auxiliary contact block (Side mounting)	SZ-AS1	1NO+1NC	SC-03, 0, 05, 4-0, 4-1, 5-1, N1, N2, N2S, N3, SH-4, 5		
		SZ-AS2	(mounted on both left and right sides)	SC-N4, N5, N6, N7, N8, N10, N11, N12		
	Interlock unit	SZ-RM	A set of interlock and joint block	SC-03, 0, 05, 4-0, 4-1, 5-1, N1, N2, N2S, N3		
	Coil surge suppression unit	SZ-Z1	Varistor 24 - 48V AC/DC	SC-03 - 5-1, SH-4, 5		
		SZ-Z2	Varistor 100 - 240V AC/DC	SC-03/G - 5-1/G, SH-4/G, 5/G		
		SZ-Z3	Varistor 380 - 440V AC	SC-03 - 5-1, SH-4, 5		
		SZ-Z6	Varistor 24 - 48V AC/DC LED	SC-03 - 5-1, SH-4, 5		
		SZ-Z7	Varistor 100 - 240V AC/DC LED	SC-03/G - 5-1/G, SH-4/G, 5G		
		SZ-Z31	Varistor 24 - 48V AC/DC	SC-N1 - N3		
		SZ-Z32	Varistor 100 - 250V AC/DC	SC-N1/G - N3/G		
		SZ-Z33	Varistor 380 - 440V AC	SC-N1 - N3		
		SZ-Z41	Varistor 24 - 48V AC	SC-N4		
		SZ-Z42	Varistor 100 - 250V AC			
		SZ-Z43	Varistor 380 - 440V AC			
		SZ-Z4	CR 24 - 48V AC/DC	SC-03 - 5-1, SH-4, 5		
		SZ-Z5	CR 100 - 240V AC/DC			
		SZ-Z8	CR 24 - 48V AC/DC LED			
		SZ-Z9	CR 100 - 240V AC/DC LED			
		SZ-Z34	CR 24 - 48V AC	SC-N1 - N3		
		SZ-Z35	CR 100 - 250V AC			
		SZ-Z36	CR 24 - 48V DC	SC-N1/G - N3/G		
		SZ-Z37	CR 100 - 250V DC			
		SZ-Z44	CR 24 - 48V AC	SC-N4		
	SZ-Z45	CR 100 - 250V AC				
	Main circuit surge suppression unit	SZ-ZM1	Front mounting 3-phase CR 250V AC	SC-03 - 5-1 ^{*2}		
		SZ-ZM2	Side mounting 3-phase CR 250V AC			
		SZ-ZM3		SC-N1 - N3		
		SZ-ZM4				
	Terminal covers	SZ-T5	For auxiliary contact block (front mounting:) 4 poles	SZ-A40, A31, A22, A20, A11, A02		
		SZ-T6	For auxiliary contact block (front mounting:) 3 poles			
		SZ-T7	For auxiliary contact block (front mounting:) 2 poles	SZ-AL, AR, AS1, AS2		
		SZ-T1	For contactors (main terminals and coil terminals)	SC-03, 0, SH-4		
		SZ-T2		SC-05, SH-5		
		SZ-T3		SC-4-0, 4-1, 5-1		
		SZ-T4		SC-5-1		
		SZ-T22		SC-N1, N2		
		SZ-T23		SC-N2S, N3		
		SZ-T10	For thermal overload relay separate mounting unit	SZ-HB		
		SZ-T11		SZ-HC		
SZ-T12		For thermal overload relays	TR-0N			
SZ-T13			TR-5-1N			
SZ-T14		For separate mounting thermal overload relay	TR-N2H			
SZ-T15			TR-N3H			
SZ-T16		For thermal overload relays	TR-N2			
SZ-T17			TR-N3			
SZ-N4T		For magnetic contactors (Terminal on power supply side)	SC(SW)-N4, N5			
SZ-N6T			SC(SW)-N6			
SZ-N7T		For magnetic contactors (Terminal on load side)	SC(SW)-N7			
SZ-N8T		For magnetic starters (Terminal on power supply side)	SC(SW)-N8, N10			
SZ-N11T			SC(SW)-N11, N12			
SZ-WN4T		For magnetic starters (Terminal on load side)	SW-N4, N5			
SZ-WN6T			SW-N6			
SZ-WN7T			SW-N7			
SZ-WN8T			SW-N8			
SZ-WN10T			SW-N10			
SZ-WN11T		SW-N11, N12				
Separate mounting unit	SZ-HB	Separate mounting thermal overload relay assembly	TR-0N			
	SZ-HC		TR-5-1N			
	SZ-HD		TR-N2			
	SZ-HE		TR-N3			
Reset release button	SZ-R1	For resetting thermal overload relay (L=300mm)	TR-0N, 5-1N			
	SZ-R2	For resetting thermal overload relay (L=500mm)				
	SZ-R3	For resetting thermal overload relay (L=700mm)				
Dial cover	SZ-DA	For locking the current setting dial of thermal overload relay	TR-0N, 5-1N			

Note 1: The main unit is approved to satisfy the UL/CSA standard when it is combined with operation counter (SZ-J□) and/or live-section cover (SZ-JC□, or JW□).


*1 Can not be mounted on 5-1(Y) type of 2NO+2NC auxiliary contacts.

*2 SZ-ZM1 type can not be mounted on 5-1(Y) type of 2NO+2NC auxiliary contacts.


*3 Can not be mounted on SH-4 type of 8 auxiliary contacts.

● Contactors / SC-M series


- AC operated non-reversing magnetic contactors

Series Standard	Type	Max. motor capacity [HP] (): Rated operational current						Continuous current [A]	UL File No.
		Single-phase		3-phase squirrel-cage					
		110-120V	220-240V	200V	220-240V	400-480V	550-600V		
SC-M Series 	SC-M01	1/3 (7.2A)	1 (4.2A)	1.5 (6.9A)	1.5 (6A)	3 (4.8A)	3 (3.9A)	20	E42419
	SC-M02	1/2 (9.8A)	1.5 (6A)	3 (11A)	3 (9.6A)	5 (7.6A)	5 (6.1A)	20	


- DC operated non-reversing magnetic contactors

Series Standard	Type	Max. motor capacity [HP] (): Rated operational current						Continuous current [A]	UL File No.
		Single-phase		3-phase squirrel-cage					
		110-120V	220-240V	200V	220-240V	400-480V	550-600V		
SC-M Series 	SC-M01/G	1/3 (7.2A)	1 (4.2A)	1.5 (6.9A)	1.5 (6A)	3 (4.8A)	3 (3.9A)	20	E42419
	SC-M01/G1	1/3 (7.2A)	1 (4.2A)	1.5 (6.9A)	1.5 (6A)	3 (4.8A)	3 (3.9A)	20	
	SC-M01/G2	1/3 (7.2A)	1 (4.2A)	1.5 (6.9A)	1.5 (6A)	3 (4.8A)	3 (3.9A)	20	
	SC-M02/G	1/2 (9.8A)	1.5 (6A)	3 (11A)	3 (9.6A)	5 (7.6A)	5 (6.1A)	20	
	SC-M02/G1	1/2 (9.8A)	1.5 (6A)	3 (11A)	3 (9.6A)	5 (7.6A)	5 (6.1A)	20	
	SC-M02/G2	1/2 (9.8A)	1.5 (6A)	3 (11A)	3 (9.6A)	5 (7.6A)	5 (6.1A)	20	


- AC operated reversing magnetic contactors

Series Standard	Type	Max. motor capacity [HP] (): Rated operational current				Continuous current [A]	UL File No.
		3-phase					
		200V	220-240V	400-480V	550-600V		
SC-M Series 	SC-M01RM	1.5 (6.9A)	1.5 (6A)	3 (4.8A)	3 (3.9A)	20	E42419
	SC-M02RM	3 (11A)	3 (9.6A)	5 (7.6A)	5 (6.1A)	20	


-DC operated reversing magnetic contactors

Series Standard	Type	Max. motor capacity [HP] (): Rated operational current				Continuous current [A]	UL File No.
		3-phase					
		200V	220-240V	400-480V	550-600V		
SC-M Series 	SC-M01/GRM	1.5 (6.9A)	1.5 (6A)	3 (4.8A)	3 (3.9A)	20	E42419
	SC-M01/G1RM	1.5 (6.9A)	1.5 (6A)	3 (4.8A)	3 (3.9A)	20	
	SC-M01/G2RM	1.5 (6.9A)	1.5 (6A)	3 (4.8A)	3 (3.9A)	20	
	SC-M02/GRM	3 (11A)	3 (9.6A)	5 (7.6A)	5 (6.1A)	20	
	SC-M02/G1RM	3 (11A)	3 (9.6A)	5 (7.6A)	5 (6.1A)	20	
	SC-M02/G2RM	3 (11A)	3 (9.6A)	5 (7.6A)	5 (6.1A)	20	

- 2E thermal overload relay


Series Standard	Type	No. of heat elements	Reset	Auxiliary contact	Heat element rating [A]	Applicable magnetic contactor types	Protection coordination Fuse rating [A] Class K-5	UL File No.
SC-M Series 	TK-M0	3	Manual/Auto	1NC	0.11-0.17	SC-M01	1	E44592
					0.17-0.26	SC-M01/G□	1	
					0.26-0.43	SC-M01RM	1	
					0.43-0.65	SC-M01/G□RM	1	
					0.65-1.0	SC-M02	3	
					0.85-1.3	SC-M02/G□	3	
					1.1-16	SC-M02RM	6	
					1.35-2.0	SC-M02/G□RM	6	
					1.7-2.4		6	
					2.2-3.2		10	
					2.5-4.0		15	
					3.0-4.7		15	
					4.0-6.3		20	
					5.5-8.0		30	
	7.5-10.5		40					
	TK-M0Q	3	Manual/Auto	1NC	1.35-2.0		6	
					1.7-2.4		10	
					2.2-3.2		15	
					3.0-4.7		15	
					4.0-6.3		20	
5.5-8.0						30		
7.4-10.5		40						

- SC-M Series optional accessories


Series Standard	Model	Type	Specification	Applications	UL File No.	
	Auxiliary contact block (Front mounting)	SZ-MA40	4NO, A600, Q600	SC-M01 SC-M01/G□ SC-M02 SC-M02/G□	E44592	
		SZ-MA31	3NO+1NC, A600, Q600			
		SZ-MA22	2NO+2NC, A600, Q600			
		SZ-MA13	1NO+3NC, A600, Q600			
		SZ-MA04	4NC, A600, Q600			
		SZ-MA20	2NO, A600, Q600			
		SZ-M11	1NO+1NC, A600, Q600			
		SZ-MA02	2NC, A600, Q600			
		Auxiliary contact block (Side mounting)	SZ-MAS10			1NO, A600, Q600
			SZ-MAS01			1NC, A600, Q600
	Coil surge suppression unit	SZ-MZ1	CR 12 - 60V AC/DC 50/60Hz			
		SZ-MZ2	CR 72 - 250V AC/DC 50/60Hz			
		SZ-MZ3	Built-in diode (6 - 250V DC)			
	Interlock unit	SZ-MRM	A set of interlock and joint block			
	Reversing connection kit	SZ-MRWC	Reversing circuit wiring kit			
	Solid-state time-delay unit	SZ-MT2	ON delay 0.2 - 24s			
SZ-MT5		ON delay 0.5 - 60s				
Input terminal	SZ-MHT	Separate mounting thermal relay input terminal	TK-M0	TK-M0Q		
Base unit	SZ-MHB	DIN 35mm-wide rail mounted, screw mounted				
Auxiliary contact block	SZ-MA10	Contact arrangement : 1NC, A600, Q600				

● Contactors / SC-E Series


- AC operated / Non-reversing contactors


Series Standard	Type	Rated capacity [HP] (): Rated operational current						Continuous current [A]	UL File No.
		Single-phase motor		3-phase squirrel cage motor					
		110-120V	220-240V	200V	220-240V	440-480V	550-600V		
	SC-E02	1/3 (7.2A)	1 (8A)	2 (7.8A)	2 (6.8A)	5 (7.6A)	5 (6.1A)	20	E42419
	SC-E03	1/2 (9.8A)	2 (12A)	3 (11A)	3 (9.6A)	7 1/2 (11A)	7 1/2 (9A)	20	
	SC-E04	1 (16A)	3 (17A)	5 (17.5A)	5 (15.2A)	10 (14A)	10 (11A)	25	
	SC-E05	2 (24A)	3 (17A)	5 (17.5A)	7 1/2 (22A)	15 (21A)	15 (17A)	32	
	SC-E1	2 (24A)	3 (17A)	7.5 (25.3A)	10 (28A)	25 (34A)	25 (27A)	50	
	SC-E2	3 (34A)	5 (28A)	10 (32.2A)	15 (42A)	30 (40A)	30 (32A)	60	
	SC-E2S	3 (34A)	10 (50A)	15 (48.3A)	20 (54A)	30 (40A)	30 (32A)	65	
	SC-E3	5 (56A)	15 (68A)	20 (62.1A)	25 (68A)	50 (65A)	50 (52A)	100	
	SC-E4	5 (56A)	15 (68A)	25 (78.2A)	30 (80A)	50 (65A)	50 (52A)	105	
	SC-E5	7.5 (80A)	15 (68A)	30 (92A)	30 (80A)	60 (77A)	75 (77A)	150	
	SC-E6	10 (100A)	20 (88A)	40 (119.6A)	40 (104A)	75 (96A)	100 (99A)	150	
	SC-E7	15 (135A)	25 (110A)	50 (149.5A)	50 (130A)	100 (124A)	125 (125A)	200	

- DC operated / Non-reversing contactors


Series Standard	Type	Rated capacity [HP] (): Rated operational current						Continuous current [A]	UL File No.
		Single-phase motor		3-phase squirrel cage motor					
		110-120V	220-240V	200V	220-240V	440-480V	550-600V		
	SC-E02/G	1/3 (7.2A)	1 (8A)	2 (7.8A)	2 (6.8A)	5 (7.6A)	5 (6.1A)	20	E42419
	SC-E03/G	1/2 (9.8A)	2 (12A)	3 (11A)	3 (9.6A)	7 1/2 (11A)	7 1/2 (9A)	20	
	SC-E04/G	1 (16A)	3 (17A)	5 (17.5A)	5 (15.2A)	10 (14A)	10 (11A)	25	
	SC-E05/G	2 (24A)	3 (17A)	5 (17.5A)	7 1/2 (22A)	15 (21A)	15 (17A)	32	
	SC-E1/G	2 (24A)	3 (17A)	7.5 (25.3A)	10 (28A)	25 (34A)	25 (27A)	50	
	SC-E2/G	3 (34A)	5 (28A)	10 (32.2A)	15 (42A)	30 (40A)	30 (32A)	60	
	SC-E2S/G	3 (34A)	10 (50A)	15 (48.3A)	20 (54A)	30 (40A)	30 (32A)	65	
	SC-E3/G	5 (56A)	15 (68A)	20 (62.1A)	25 (68A)	50 (65A)	50 (52A)	100	
	SC-E4/G	5 (56A)	15 (68A)	25 (78.2A)	30 (80A)	50 (65A)	50 (52A)	105	
	SC-E5	7.5 (80A)	15 (68A)	30 (92A)	30 (80A)	60 (77A)	75 (77A)	150	
	SC-E6	10 (100A)	20 (88A)	40 (119.6A)	40 (104A)	75 (96A)	100 (99A)	150	
	SC-E7	15 (135A)	25 (110A)	50 (149.5A)	50 (130A)	100 (124A)	125 (125A)	200	


- 2E thermal overload relay

Series Standard	Type	No. of heat elements	Reset	Auxiliary contact arrangement	Heat element ratings [A]	Protection coordination		Applicable magnetic contactor types	UL File No.	
						AC 600V Max. rated current of UL breaker [A]	AC 600V Max. rated current of UL fuse [A]			
SC-E Series 	TK-E02	3	Manual / Auto	1NO + 1NC	0.1-0.15 (0.1)	15	15	SC-E02, E02/G	E44592	
					0.13-0.2 (0.13)	15	15			
					0.15-0.24 (0.15)	15	15			
					0.2-0.3 (0.2)	15	15			
					0.24-0.36 (0.24)	15	15			
					0.3-0.45 (0.3)	15	15			
					0.36-0.54 (0.36)	15	15			
					0.48-0.72 (0.48)	15	15			
					0.64-0.96 (0.64)	15	15			
					0.8-1.2 (0.8)	15	15			
					0.95-1.45 (0.95)	15	15			
					1.4-2.2 (1.4)	20	15			
					1.7-2.6 (1.7)	20	15			
					2.2-3.4 (2.2)	20	15			
					2.8-4.2 (2.8)	20	15			
					4-6 (4)	20	15			
					5-8 (5)	20	15			
					6-9 (6)	20	30			
					7-11 (7)	20	30			
					0.1-0.15 (0.1)	15	15			SC-E03, E03/G
					0.13-0.2 (0.13)	15	15			
					0.15-0.24 (0.15)	15	15			
					0.2-0.3 (0.2)	15	15			
					0.24-0.36 (0.24)	15	15			
					0.3-0.45 (0.3)	15	15			
					0.36-0.54 (0.36)	15	15			
					0.48-0.72 (0.48)	15	15			
					0.64-0.96 (0.64)	15	15			
					0.8-1.2 (0.8)	15	15			
					0.95-1.45 (0.95)	15	15			
					1.4-2.2 (1.4)	20	15			
					1.7-2.6 (1.7)	20	15			
					2.2-3.4 (2.2)	20	15			
					2.8-4.2 (2.8)	20	15			
					4-6 (4)	20	15			
					5-8 (5)	20	15			
					6-9 (6)	20	30			
					7-11 (7)	20	30			
					9-13 (9)	30	30	SC-E04, E04/G		
					0.1-0.15 (0.1)	15	15			
					0.13-0.2 (0.13)	15	15			
					0.15-0.24 (0.15)	15	15			
					0.2-0.3 (0.2)	15	15			
					0.24-0.36 (0.24)	15	15			
					0.3-0.45 (0.3)	15	15			
					0.36-0.54 (0.36)	15	15			
					0.48-0.72 (0.48)	15	15			
					0.64-0.96 (0.64)	15	15			
					0.8-1.2 (0.8)	15	15			
					0.95-1.45 (0.95)	15	15			
					1.4-2.2 (1.4)	20	15			
					1.7-2.6 (1.7)	20	15			
					2.2-3.4 (2.2)	20	15			
					2.8-4.2 (2.8)	20	15			
					4-6 (4)	20	15			
					5-8 (5)	20	15			
					6-9 (6)	20	30			
					7-11 (7)	20	30			
					9-13 (9)	30	30			
					12-18 (12)	30	50			
					0.1-0.15 (0.1)	15	15			SC-E05, E05/G
					0.13-0.2 (0.13)	15	15			
					0.15-0.24 (0.15)	15	15			
					0.2-0.3 (0.2)	15	15			
					0.24-0.36 (0.24)	15	15			
					0.3-0.45 (0.3)	15	15			
					0.36-0.54 (0.36)	15	15			
					0.48-0.72 (0.48)	15	15			
					0.64-0.96 (0.64)	15	15			
					0.8-1.2 (0.8)	15	15			
					0.95-1.45 (0.95)	15	15			
					1.4-2.2 (1.4)	20	15			
					1.7-2.6 (1.7)	20	15			
					2.2-3.4 (2.2)	20	15			
					2.8-4.2 (2.8)	20	15			
					4-6 (4)	20	15			
					5-8 (5)	20	15			
					6-9 (6)	20	30			
					7-11 (7)	20	30			

Series Standard	Type	No. of heat elements	Reset	Auxiliary contact arrangement	Heat element ratings [A]	Protection coordination		Applicable magnetic contactor types	UL File No.
						AC 600V Max. rated current of UL breaker [A]	AC 600V Max. rated current of UL fuse [A]		
SC-E Series 	TK-E02	3	Manual / Auto	1NO + 1NC	9-13 (9)	30	30	SC-E05, E05/G	E44592
					12-18 (12)	30	50		
					16-22 (16)	50	50		
					20-25 (20)	50	50		
	TK-E2	3	Manual / Auto	1NO + 1NC	4-6 (4)	60	20	SC-E1, E1/G	
					5-8 (5)	60	20		
					6-9 (6)	60	20		
					7-11 (7)	60	20		
					9-13 (9)	60	20		
					12-18 (12)	60	50		
					18-26 (18)	60	50		
					24-36 (24)	50	50		
					4-6 (4)	60	20	SC-E2, E2/G	
					5-8 (5)	60	20		
					6-9 (6)	60	20		
					7-11 (7)	60	20		
					9-13 (9)	60	20		
					12-18 (12)	60	50		
					18-26 (18)	60	50		
					24-36 (24)	50	50		
					32-42 (32)	70	70	SC-E2S, E2S/G	
					4-6 (4)	60	20		
					5-8 (5)	60	20		
					6-9 (6)	60	20		
					7-11 (7)	60	20		
					9-13 (9)	60	20		
					12-18 (12)	60	50		
					18-26 (18)	60	50		
	24-36 (24)	50	50						
	32-42 (32)	70	70						
	40-50 (40)	70	70						
	44-54 (44)	70	70						
	TK-E3	3	Manual / Auto	1NO + 1NC	7-11 (7)	60	20	SC-E3, E3/G	
					9-13 (9)	60	20		
					12-18 (12)	60	50		
					18-26 (18)	60	50		
					24-36 (24)	50	50		
					28-40 (28)	70	70		
					34-50 (34)	70	70		
					45-65 (45)	125	125		
					48-68 (48)	125	125	SC-E4, E4/G	
					7-11 (7)	60	20		
					9-13 (9)	60	20		
					12-18 (12)	60	50		
					18-26 (18)	60	50		
					24-36 (24)	50	50		
					28-40 (28)	70	70		
					34-50 (34)	70	70		
	45-65 (45)	125	125						
	48-68 (48)	125	125						
	64-80 (64)	125	125						
	TK-E5	3	Manual / Auto	1NO + 1NC	18-26 (18)	60	50	SC-E5	
					24-36 (24)	50	50		
					28-40 (28)	70	70		
					34-50 (34)	70	70		
					45-65 (45)	125	125		
					65-95 (65)	125	150		
	85-105 (85)	125	150						
	TK-E6	3	Manual / Auto	1NO + 1NC	45-65 (45)	175	150	SC-E6	
					53-80 (53)	175	150		
					65-95 (65)	175	150		
					85-125 (85)	175	150		
					45-65 (45)	175	150	SC-E7	
					53-80 (53)	175	150		
					65-95 (65)	175	150		
					85-125 (85)	175	150		
	110-160 (110)	225	200						

● SJ series high-sensitivity contactor (open type)


Standard	Non-reversible types		Max. motor capacity [HP]						Continuous current [A] ^{*1}	Auxiliary contact arrangement	Coil voltage code	UL File No.
	Magnetic contactor	Magnetic starters	Single-phase			3-phase						
	Type	Type	110-120V	220-240V	110-120V	220V	220-240V	440-480V				
SJ Series 	SJ-0G, 06G	SJ-0WG/N3H, 06WG/N3H SJ-0WG/2E, 06WG/2E	1/3	1	1	2	3	-	15	1NO, 1NC	12V DC 24V DC	E42419
	SJ-1SG	SJ-1SWG/3H SJ-1SWG/2E	1	2	2	5	5	7 1/2	25	2NO, 2NO+2NC		

Standard	Reversible types		Max. motor capacity [HP]						Continuous current [A] ^{*1}	Auxiliary contact arrangement	Coil voltage code	UL File No.
	Magnetic contactor	Magnetic starters	Single-phase			3-phase						
	Type	Type	110-120V	220-240V	110-120V	220V	220-240V	440-480V				
SJ Series 	SJ-0G, 06G	SJ-0WGRM/N3H, 06WGRM/N3H SJ-0WGRM/2E, 06WGRM/2E	1/3	1	1	2	3	-	15	1NO, 1NC	12V DC 24V DC	E42419
	SJ-1SG	SJ-1SWGRM/3H SJ-1SWGRM/2E	1	2	2	5	5	7 1/2	25	2NO, 1NO+1NC		


*1 Applicable when used as magnetic contactor

- Notes 1: Allowable voltage variation is 85% to 110% of rated voltage.
2: Be careful of the polarity of operation coil terminals.


● FC Series AC operated magnetic contactors (open type)

Series Standard	Type	Max. motor capacity [HP]						Continuous current [A]	Auxiliary contact arrangement	UL File No.
		Single-phase			3-phase					
		110-120V	220-240V	200V	220-240V	440-480V	550-600V			
FC Series 	FC-0UL	1/2	1	1	1	-	-	15	1NO, 1NC	E42419
	FC-0TUL									
	FC-0SUL									
	FC-0STUL									
	FC-0/GUL									
	FC-0T/GUL									
	FC-1UL	1	2	5	5	7.5	7.5	20	1NO+1NC	
	FC-1SUL	2	3	5	7.5	10	7.5	26	1NO+1NC	
	FC-2SUL	3	5	10	10	15	10	35	1NO+1NC	
FC-3UL	3	7.5	10	15	25	15	45	1NO+1NC		
FC-4UL	5	10	15	20	30	25	65	1NO+1NC		

● FC Series DC operated magnetic contactors (open type)

Series Standard	Type	Max. motor capacity [HP]					Continuous current [A]	Auxiliary contact arrangement	UL File No.
		Single-phase		3-phase					
		110-120V	220-240V	200V	220-240V	380-440V			
FC Series 	FC-0/GUL	1/2	1	1	1	-	15	1NO, 1NC	E42419
	FC-0T/GUL								
	FC-0S/GUL								
	FC-0ST/GUL								

● SB series DC magnetic contactors

Series Standard	Type	Main contact arrangement	Operational current [A]												Continuous current [A]		UL File No.
			For variable-speed motor								DC motor (class DC2/DC4)				NO contact	NC contact	
			NO contact (2 serial poles)				Dynamic brake applied NC contact (activation time: 3 seconds)				NO contact (2 serial poles)						
			110V	240V	440V	550V	110V	240V	440V	550V	110V	240V	440V	550V			
SB Series 	SB-2N/UL	2NO	50	50	35	35	75	75	75	75	40	35	18	15	50	50	E42419
	SB-2NB/UL	2NO+1NC	50	50	35	35	75	75	75	75	40	35	18	15	50	50	
	SB-2N/SEUL	2NO	110	110	110	110	165	165	165	165	85	85	60	45	110	100	
	SB-2NB/SEUL	2NO+1NC	140	140	140	140	210	210	210	210	125	120	80	50	140	100	
	SB-5N/UL	2NO	240	240	240	240	360	360	360	360	240	200	120	100	240	160	
	SB-5NB/UL	2NO+1NC	320	320	320	320	480	480	480	480	320	290	200	150	320	200	
	SB-6N/UL	2NO															
	SB-6NB/UL	2NO+1NC															
	SB-10N/UL	2NO															
	SB-10NB/UL	2NO+1NC															
	SB-11N/UL	2NO															
SB-11NB/UL	2NO+1NC																

- Notes 1: The duty for variable-speed motor control (NO contact) and that for dynamic brake (NC contact) are applicable to the no-voltage circuit of twice the making capacity and to that of one time the making capacity, respectively.
- 2: The continuous current values for dynamic brake application are for the intermittent operation of 600 cycle/hour and 3-second activation time.
- 3: The values for DC motor application are applicable to the motor load of class DC2 (start/stop of shunt motors - time constant L/R: 2ms when closed and 7.5ms when open) or DC4 (start/stop of series motors - time constant L/R: 7.5ms when closed and 10ms when open) under JEM1038.

● Standard application of built-in thermal overload relays

Type	No. of heat elements	Reset	Auxiliary contact arrangement	Heat element ratings [A]	Protection coordination		Applicable magnetic starter types
					Max. rated current of current limiting fuse [A] ^{*1}	Max. rated current of molded case circuit breaker [A]	
TR-0/UL	3	Manual	1(NO+NC)	0.48 - 0.72 (0.48)	15	15	SJ-0WG/UL
				0.64 - 0.96 (0.64)	15	15	
				0.8 - 1.2 (0.8)	15	15	
				0.95 - 1.45 (0.95)	15	15	
				1.4 - 2.2 (1.4)	15	15	
				1.7 - 2.6 (1.7)	15	15	
				2.2 - 3.4 (2.2)	15	15	
				2.8 - 4.2 (2.8)	15	15	
				4 - 6 (4)	15	15	
				5 - 8 (5)	20	15	
				6 - 9 (6)	30	15	
7 - 9.6 (7)	30	15					
TR-0N/3Z716 TK-0NZ716	3	Manual/Auto	1NO+1NC	0.1 - 0.15 (0.1)	1 (15)	-	SJ-0WG/NUL SJ-0WG/2EUL
				0.15 - 0.24 (0.15)	1 (15)		
				0.24 - 0.36 (0.24)	2 (15)		
				0.36 - 0.54 (0.36)	3 (15)		
				0.54 - 0.72 (0.48)	3 (15)		
				0.64 - 0.96 (0.64)	3 (15)		
				0.8 - 1.2 (0.8)	5 (15)		
				0.95 - 1.45 (0.95)	5 (15)		
				1.4 - 2.2 (1.4)	10 (15)		
				1.7 - 2.6 (1.7)	10 (15)		
				2.2 - 3.4 (2.2)	15		
				2.8 - 4.2 (2.8)	15		
				4 - 6 (4)	15		
				5 - 8 (5)	20		
6 - 9 (6)	30						
7 - 11 (7)	30						
TR-5-1N/3 TK-5-1N	3	Manual/Auto	1NO+1NC	0.1 - 0.15 (0.1)	1 (15)	-	SJ-1SWG/UL SJ-1SWG/2EUL
				0.15 - 0.24 (0.15)	1 (15)		
				0.24 - 0.36 (0.24)	2 (15)		
				0.36 - 0.54 (0.36)	3 (15)		
				0.48 - 0.72 (0.48)	3 (15)		
				0.64 - 0.96 (0.64)	3 (15)		
				0.8 - 1.2 (0.8)	5 (15)		
				0.95 - 1.45 (0.95)	5 (15)		
				1.4 - 2.2 (1.4)	10 (15)		
				1.7 - 2.6 (1.7)	10 (15)		
				2.2 - 3.4 (2.2)	15		
				2.8 - 4.2 (2.8)	15		
				4 - 6 (4)	15		
				5 - 8 (5)	20		
6 - 9 (6)	30						
7 - 11 (7)	30						
9 - 13 (9)	30						
12 - 18 (12)	30						

*1 Parenthesized values in the fuse rating column are for CSA approved products.

Note 1: Parenthesized figures in the "Heat element rating" column are the nominal rating to be specified at order placement.