

MOTOR CONTROL

Magnetic Contactors and Starters SC-NEXT

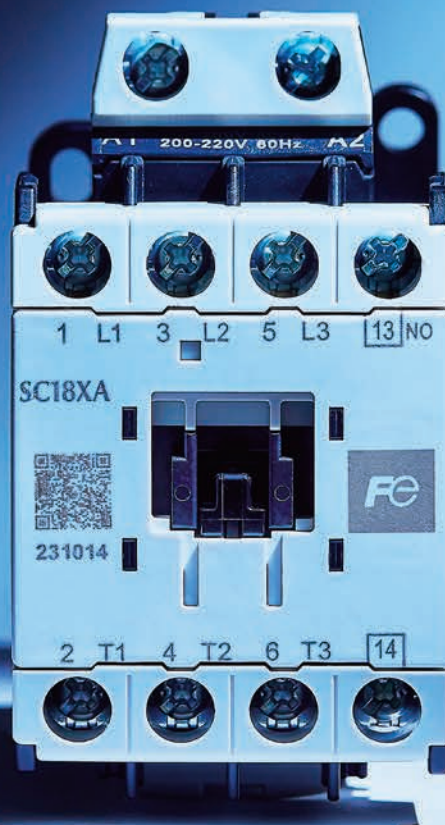


Going beyond perfection

Before, NEXT, Future.

SC-NEXT

SC-NEXT



SC-NEXT, Launched.

For over three decades, the "New SC Series" magnetic switches by Fuji Electric FA Components & Systems have been the benchmark in the manufacturing world.

Our pursuit of perfection has been the driving force behind our continued success.

With our latest product, the SC-NEXT, we are breaking boundaries and pioneering a new era of innovation. It's a testament to our commitment to surpass ourselves and provide revolutionary performance that's essential for a better future.

Going beyond perfection

Product lineup

Frame			09	12	18		
Appearance of magnetic contactors							
Type	Magnetic contactors		SC09X	SC12X	SC18X	SC20X	
	Magnetic starters		SW09X	SW12X	SW18X	SW20X	
	Thermal overload relays		TR18X				TR38X
Auxiliary contact arrangement			1NO, 1NC	1NO, 1NC	1NO, 1NC	1NO, 1NC	
Rating (IEC 60947-4-1, JIS standard compliance)	Three-phase squirrel-cage motor capacity (AC-3, AC-3e)	200 to 240V	2.5kW	3.5kW	4kW	5kW	
		380 to 440V	11A	13A	18A	20A	
			4kW	5.5kW	7.5kW	10kW	
		500 to 550V	9A	12A	18A	20A	
			4kW	5.5kW	7.5kW	11kW	
		600 to 690V	7A	9A	13A	17A	
			4kW	5.5kW	7.5kW	7.5kW	
		Conventional free air thermal current (Ith)		20A	20A	25A	32A
	Dimensions [mm]	AC operated products	W	43	43	43	53
H			80	80	80	80	
D			78	78	78	82	
Specifications							
Magnetic contactors	AC operated types (standard types)	SC □ X(D)A	○	○	○	○	
	AC operated reversing types	SC □ X(D)AR	○	○	○	○	
	DC operated types	SC □ X(D)G	○	○	○	○	
	DC operated types (low power consumption types)	SC □ X(D)G-L	○	○	○	○	
	Types with super magnets (AC/DC dual operating types)	SC □ XS	—	—	—	—	
	Extra pick-up operating coil types	SC □ X(D)U	○	○	○	○	
	Mechanical latch types (AC/DC dual operating types)	SC □ X(D)V	●	●	●	●	
Magnetic starters	AC operated types (standard types)	SW □ X(D)A	○	○	○	○	
	AC operated reversing types	SW □ X(D)AR	○	○	○	○	
	DC operated types	SW □ X(D)G	○	○	○	○	
	DC operated types (low power consumption types)	SW □ X(D)G-L	○	○	○	○	
	Types with super magnets (AC/DC dual operating types)	SW □ XS	—	—	—	—	
	Extra pick-up operating coil types	SW □ X(D)U	○	○	○	○	
	Types with 3-element thermal overload relays	SW □ X(D) □ 3	○	○	○	○	
	Types with 2E thermal overload relays	SW □ X(D) □ K	○	○	○	○	

20		26		32	38		40	50	65
									
SC20D		SC26X	SC26D	SC32X	SC38X	SC38D	SC40X	SC50X	SC65X
SW20D		SW26X	SW26D	—	SW38X	SW38D	SW40X	SW50X	SW65X
TR38X							TR65X		
2NO, 1NO1NC, 2NC	1NO, 1NC	2NO, 1NO1NC, 2NC	1NO, 1NC	1NO, 1NC	2NO, 1NO1NC, 2NC	1NO1NC	1NO1NC	1NO1NC	1NO1NC
5kW	5.5kW	5.5kW	7.5kW	11kW	11kW	11kW	15kW	18.5kW	18.5kW
20A	26A	26A	32A	38A	38A	40A	50A	65A	65A
10kW	11kW	11kW	15kW	18.5kW	18.5kW	18.5kW	22kW	30kW	30kW
20A	26A	26A	32A	38A	38A	40A	50A	65A	65A
11kW	11kW	11kW	15kW	15kW	15kW	18.5kW	25kW	37kW	37kW
17A	17A	17A	24A	24A	24A	29A	38A	60A	60A
7.5kW	7.5kW	7.5kW	11kW	11kW	11kW	15kW	22kW	30kW	30kW
9A	9A	9A	15A	15A	15A	19A	26A	38A	38A
32A	50A	50A	50A	50A	50A	80A	80A	80A	80A
64	53	64	53	53	64	64	64	64	64
80	80	80	80	80	80	89	89	89	89
82	82	82	82	82	82	93	93	93	93

	○	○	○	○	○	○	●	●	●
	○	○	○	○	○	○	●	●	●
	○	○	○	○	○	○	●	●	●
	○	○	○	○	○	○	—	—	—
	—	—	—	—	—	—	●	●	●
	○	○	○	○	○	○	●	●	●
	●	●	●	—	●	●	●	●	●
	○	○	○	—	○	○	●	●	●
	○	○	○	—	○	○	●	●	●
	○	○	○	—	○	○	●	●	●
	○	○	○	—	○	○	—	—	—
	—	—	—	—	—	—	●	●	●
	○	○	○	—	○	○	●	●	●
	○	○	○	—	○	○	●	●	●
	○	○	○	—	○	○	●	●	●

○: On sale, ●: Coming soon (FY 2024), —: Not available

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→ As manufacturing processes and equipment become more advanced, the need for space-saving solutions has become increasingly imperative.

Building better control panels for a brighter future.

Designing control panels can be a daunting task, especially when it comes to adding equipment without changing the panel size. But with our innovative SC-NEXT, we have overcome this challenge by creating a solution that is up to 28% smaller depending on the model selected. Our dedication to creating space-saving and high-performance control panels has led us to develop this ground breaking technology.

The auxiliary contact configuration can be customized to fit your specific requirements.

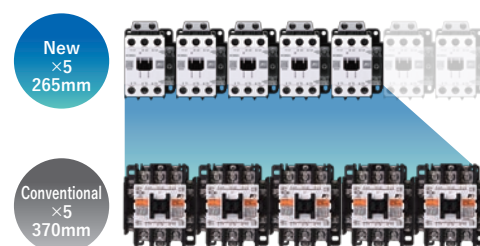
In fact, we have discovered that about half of our magnetic starter users use only one pole. For this reason, we offer a variety of auxiliary contacts to suit customer applications. To ensure compatibility, it is of course possible to select the same number of contacts as in conventional products, but further downsizing can be achieved by reducing the number of contacts as required.

Enables PLC direct driving. Contributes to further downsizing.

SC-NEXT is the first Japanese product to enable direct driving* from a PLC up to 38 A. This eliminates the need for relays and IC coil drive units, and reduces the space required for the control panel.

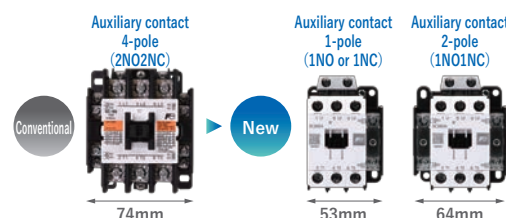
*Low-power consumption types are only available for direct driving for DC products (24V 0.1A).

Contributes to downsizing by up to **28%** depending on the model selected.

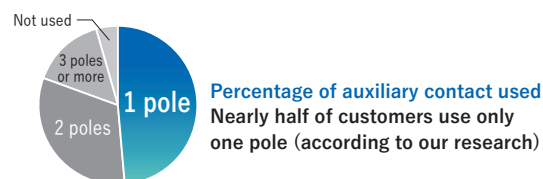


*Comparison of SC-N2 type (35 A) and SC38XA (38 A)

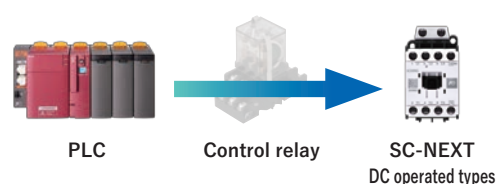
Selectable number of auxiliary contacts up to 4 poles*



*Up to 4 poles can be selected by adding separately-sold auxiliary contact blocks



Enables direct driving up to **38A**



→ Make on-site operations safer and more intelligent.

Provides a terminal cover that protects the safety of everyone who handles products.

It includes a terminal cover as standard to ensure IP20 finger protection. Increases safety during maintenance and inspection.

Conforms to **IP20^{*}**
by coming standard with terminal cover



*Front direction

Get the specification you want to inspect right away.

A 2D code is attached to the surface of the product that allows users to check documentation on product specifications, outline drawings, and user manuals. If you need clarification, simply scan the 2D code to get the answers you need right away.

Product information can be checked from the **2D code** on the front of the device.





Increase your contributions to environmental initiatives.

Products that have been used are recycled.
Product development with the goal of recycling in mind.

98% of the plastic used in SC-NEXT is made from recyclable resources. This helps to make carbon neutrality a reality.

98% of plastic materials
are recyclable



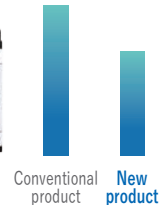
Significant energy savings are achieved.
Contributes to reducing energy consumption.

For both AC and DC-operated types, SC-NEXT dramatically lowers coil power consumption. Reducing energy consumption is made possible by the fact that the DC-operated type is up to 73% smaller than the conventional product and the AC-operated type is up to 25% smaller.

AC operated type: Power consumption



SC09XA



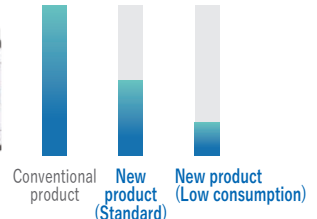
power consumption

Up to **25%** reduction

DC operated type: Power consumption



SC09XG



power consumption

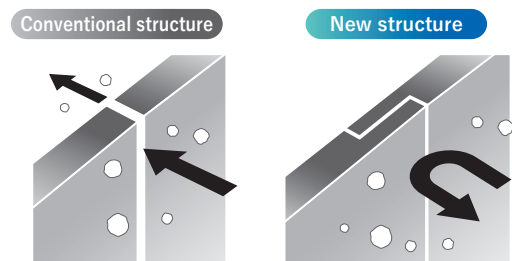
Up to **73%** reduction

→ To extend the life of our products for customers.

It has a tight-fitting structure, which eliminates the issues associated with magnetic starters.

Dust causes approximately half of all continuity problems, but SC-NEXT reduces the area of opening by 70% when compared to conventional products, and it also uses a revised fitting method.

This structural design prevents outside dust from entering and stabilises operation.



Consumable parts can be replaced to extend the life of the product.

Consumable parts may deteriorate before the end of the product's life expectancy, depending on how they are used in the field.

The coil and contact can be replaced, avoiding the need to replace the entire product even if it is still functional. Product life is extended by replacing consumable parts.



Product overview

General terms of use

Ambient temperature ❶	-10 to +55°C There must be no condensation or freezing as a result of sudden temperature changes. (The 24-hour average temperature should not exceed 35°C.)
Relative humidity	85% RH or less (no condensation)
Altitude	2000 m or less
Atmosphere	Atmospheres with little dust, smoke, corrosive gases, flammable gases, vapors, or salts.
Storage temperature	-40 to +65°C
Vibration resistance	10 to 55Hz 15m/s ²
Shock resistance	50m/s ²

❶ The temperature in the vicinity of the product while it is in use is referred to as the ambient temperature.

Standard compliance

Models	Type	Conforming standards			Certified standards				EC directive	Certification body
		IEC	EN	JIS	UL	CSA	GB	KC	CE mark	TÜV
		International	Europe	Japan	America	Canada	China	Korea	Europe	Germany
										
Magnetic contactors	SC □□ X(D)	○	○	○	○	○	○	○❶	○	○
Magnetic starters	SW □□ X(D)	○	○	○	○	○	—	—	○	○
Thermal overload relays	TR □□ 3, TR □□ K	○	○	○	○	○	○	—	○	○
Auxiliary relay	SCH4X	○	○	○	○	○	○	○❶	○	○

(Note) ○ : Compliant by standard, — : Not compliant, ❶ : Scheduled certification

Magnetic contactors

● Ordering information (type)

● Ordering information (type)

SC 09X A □ □ - M 10
 (1) (2) (3) (4) (5) (6) (7)

(1) Series (2) Frame size (3) Coil operation method (A: AC operated type, G: DC operated type, U: Extra pick-up operating coil type)

(4) Auxiliary contact structure specification (No: Standard twin contact, H: High capacity auxiliary contact (with single contact))

(5) Non reversing / Reversing type (No: Non reversing, R: Reversing)

(6) Coil voltage designation code (see the code table on page 13) (7) Auxiliary contact configuration

● Rating, type

Frame size	Rated capacity [kW]			Rated operational current [A]					Coil operating method	Auxiliary contact	Coil voltage designation code				Auxiliary contact arrangement	Type									
	Three-phase squirrel-cage induction motor (AC-3,AC-3e)			Three-phase squirrel-cage induction motor (AC-3,AC-3e)			Resistive load (AC-1)																		
	200 to 240V	380 to 440V	500 to 550V	200 to 240V	380 to 440V	500 to 550V	200 to 240V	380 to 440V																	
09 [09X]	2.2	4	2.7	11	9	6	20	20	AC operated type [A]	Twin contact [No]	24V [E]	115V [J]	230V [N]	415V [X]	1NO [10]	SC09XA-□10									
										Single contact [H]	48V [F]	120V [K]	240V [P]	440V [T]	1NC [01]	SC09XA-□01									
											100V [1]	200V [2]	380V [S]	1NO [10]	SC09XAH-□10										
											110V [H]	220V [M]	400V [4]	1NC [01]	SC09XAH-□01										
									DC operated type [G]	Twin contact [No]	12V [B]	100V [1]	200V [2]	1NO [10]	SC09XG-□10										
										Single contact [H]	24V [E]	110V [H]	210V [Y]	1NC [01]	SC09XG-□01										
											48V [F]	120V [K]	220V [M]	1NO [10]	SC09XGH-□10										
											60V [G]	125V [D]	24V (Low consumption) [L]	1NC [01]	SC09XGH-□01										
12 [12X]	2.7	5.5	5.5	13	12	9	20	20	AC operated type [A]	Twin contact [No]	24V [E]	115V [J]	230V [N]	415V [X]	1NO [10]	SC12XA-□10									
										Single contact [H]	48V [F]	120V [K]	240V [P]	440V [T]	1NC [01]	SC12XA-□01									
											100V [1]	200V [2]	380V [S]	1NO [10]	SC12XAH-□10										
											110V [H]	220V [M]	400V [4]	1NC [01]	SC12XAH-□01										
									DC operated type [G]	Twin contact [No]	12V [B]	100V [1]	200V [2]	1NO [10]	SC12XG-□10										
										Single contact [H]	24V [E]	110V [H]	210V [Y]	1NC [01]	SC12XG-□01										
											48V [F]	120V [K]	220V [M]	1NO [10]	SC12XGH-□10										
											60V [G]	125V [D]	24V (Low consumption) [L]	1NC [01]	SC12XGH-□01										
18 [18X]	3.7	7.5	7	18	18	13	25	25	AC operated type [A]	Twin contact [No]	24V [E]	115V [J]	230V [N]	415V [X]	1NO [10]	SC18XA-□10									
										Single contact [H]	48V [F]	120V [K]	240V [P]	440V [T]	1NC [01]	SC18XA-□01									
											100V [1]	200V [2]	380V [S]	1NO [10]	SC18XAH-□10										
											110V [H]	220V [M]	400V [4]	1NC [01]	SC18XAH-□01										
									DC operated type [G]	Twin contact [No]	12V [B]	100V [1]	200V [2]	1NO [10]	SC18XG-□10										
										Single contact [H]	24V [E]	110V [H]	210V [Y]	1NC [01]	SC18XG-□01										
											48V [F]	120V [K]	220V [M]	1NO [10]	SC18XGH-□10										
											60V [G]	125V [D]	24V (Low consumption) [L]	1NC [01]	SC18XGH-□01										
20 [20X]	4	7.5	9	20	20	17	32	32	AC operated type [A]	Twin contact [No]	24V [E]	115V [J]	230V [N]	415V [X]	1NO [10]	SC20XA-□10									
										Single contact [H]	48V [F]	120V [K]	240V [P]	440V [T]	1NC [01]	SC20XA-□01									
											100V [1]	200V [2]	380V [S]	1NO [10]	SC20XAH-□10										
											110V [H]	220V [M]	400V [4]	1NC [01]	SC20XAH-□01										
									DC operated type [G]	Twin contact [No]	12V [B]	100V [1]	200V [2]	1NO [10]	SC20XG-□10										
										Single contact [H]	24V [E]	110V [H]	210V [Y]	1NC [01]	SC20XG-□01										
											48V [F]	120V [K]	220V [M]	1NO [10]	SC20XGH-□10										
											60V [G]	125V [D]	24V (Low consumption) [L]	1NC [01]	SC20XGH-□01										
20 [20D]	4	7.5	9	20	20	17	32	32	AC operated type [A]	Twin contact [No]	24V [E]	115V [J]	230V [N]	415V [X]	2NO [20]	SC20DA-□20									
											48V [F]	120V [K]	240V [P]	440V [T]	1NO1NC [11]	SC20DA-□11									
											100V [1]	200V [2]	380V [S]	2NC [02]	SC20DA-□02										
											110V [H]	220V [M]	400V [4]	2NO [20]	SC20DAH-□20										
																			1NO1NC [11]	SC20DAH-□11					
																			2NC [02]	SC20DAH-□02					
																			DC operated type [G]	Twin contact [No]	12V [B]	100V [1]	200V [2]	2NO [20]	SC20DG-□20
																					24V [E]	110V [H]	210V [Y]	1NO1NO [11]	SC20DG-□11
											48V [F]	120V [K]	220V [M]	2NC [02]	SC20DG-□02										
												60V [G]	125V [D]	24V (Low consumption) [L]	2NO [20]	SC20DGH-□20									
												1NO1NC [11]	SC20DGH-□11												
												2NC [02]	SC20DGH-□02												
26 [26X]	5.5	11	11	26	26	20	40	40	AC operated type [A]	Twin contact [No]	24V [E]	115V [J]	230V [N]	415V [X]	1NO [10]	SC26XA-□10									
										Single contact [H]	48V [F]	120V [K]	240V [P]	440V [T]	1NC [01]	SC26XA-□01									
											100V [1]	200V [2]	380V [S]	1NO [10]	SC26XAH-□10										
											110V [H]	220V [M]	400V [4]	1NC [01]	SC26XAH-□01										
									DC operated type [G]	Twin contact [No]	12V [B]	100V [1]	200V [2]	1NO [10]	SC26XG-□10										
										Single contact [H]	24V [E]	110V [H]	210V [Y]	1NC [01]	SC26XG-□01										
											48V [F]	120V [K]	220V [M]	1NO [10]	SC26XGH-□10										
											60V [G]	125V [D]	24V (Low consumption) [L]	1NC [01]	SC26XGH-□01										

Product overview

Frame size	Rated capacity [kW]			Rated operational current [A]					Coil operating method	Auxiliary contact	Coil voltage designation code	Auxiliary contact arrangement	Type									
	Three-phase squirrel-cage induction motor (AC-3,AC-3e)			Three-phase squirrel-cage induction motor (AC-3,AC-3e)			Resistive load (AC-1)															
	200 to 240V	380 to 440V	500 to 550V	200 to 240V	380 to 440V	500 to 550V	200 to 240V	380 to 440V														
26 [26D]	5.5	11	11	26	26	20	40	40	AC operated type [A]	Twin contact [No]	24V [E] 115V [J] 230V [N] 415V [X] 48V [F] 120V [K] 240V [P] 440V [T] 100V [1] 200V [2] 380V [S] 110V [H] 220V [M] 400V [4]	2NO [20] 1NO1NC [11] 2NC [02] 2NO [20] 1NO1NC [11] 2NC [02]	SC26DA-□20 SC26DA-□11 SC26DA-□02 SC26DAH-□20 SC26DAH-□11 SC26DAH-□02									
										Single contact [H]												
									DC operated type [G]	Twin contact [No]	12V [B] 100V [1] 200V [2] 24V [E] 110V [H] 210V [Y] 48V [F] 120V [K] 220V [M] 60V [G] 125V [D] 24V (Low consumption) [L]	2NO [20] 1NO1NC [11] 2NC [02] 2NO [20] 1NO1NC [11] 2NC [02]	SC26DG-□20 SC26DG-□11 SC26DG-□02 SC26DGH-□20 SC26DGH-□11 SC26DGH-□02									
										Single contact [H]												
									32 [32X]	6.5	15	13	32	32	24	50	50	AC operated type [A]	Twin contact [No]	24V [E] 115V [J] 230V [N] 415V [X] 48V [F] 120V [K] 240V [P] 440V [T] 100V [1] 200V [2] 380V [S] 110V [H] 220V [M] 400V [4]	1NO [10] 1NC [01] 1NO [10] 1NC [01]	SC32XA-□10 SC32XA-□01 SC32XAH-□10 SC32XAH-□01
																			Single contact [H]			
DC operated type [G]	Twin contact [No]	12V [B] 100V [1] 200V [2] 24V [E] 110V [H] 210V [Y] 48V [F] 120V [K] 220V [M] 60V [G] 125V [D] 24V (Low consumption) [L]	1NO [10] 1NC [01] 1NO [10] 1NC [01]	SC32XG-□10 SC32XG-□01 SC32XGH-□10 SC32XGH-□01																		
	Single contact [H]																					
38 [38X]	7.5	18.5	15	35	38	26	50	50										AC operated type [A]	Twin contact [No]	24V [E] 115V [J] 230V [N] 415V [X] 48V [F] 120V [K] 240V [P] 440V [T] 100V [1] 200V [2] 380V [S] 110V [H] 220V [M] 400V [4]	1NO [10] 1NC [01] 1NO [10] 1NC [01]	SC38XA-□10 SC38XA-□01 SC38XAH-□10 SC38XAH-□01
																			Single contact [H]			
									DC operated type [G]	Twin contact [No]	12V [B] 100V [1] 200V [2] 24V [E] 110V [H] 210V [Y] 48V [F] 120V [K] 220V [M] 60V [G] 125V [D] 24V (Low consumption) [L]	1NO [10] 1NC [01] 1NO [10] 1NC [01]	SC38XG-□10 SC38XG-□01 SC38XGH-□10 SC38XGH-□01									
										Single contact [H]												
									38 [38D]	7.5	18.5	15	35	38	26	50	50	AC operated type [A]	Twin contact [No]	24V [E] 115V [J] 230V [N] 415V [X] 48V [F] 120V [K] 240V [P] 440V [T] 100V [1] 200V [2] 380V [S] 110V [H] 220V [M] 400V [4]	2NO [20] 1NO1NC [11] 2NC [02] 2NO [20] 1NO1NC [11] 2NC [02]	SC38DA-□20 SC38DA-□11 SC38DA-□02 SC38DAH-□20 SC38DAH-□11 SC38DAH-□02
																			Single contact [H]			
DC operated type [G]	Twin contact [No]	12V [B] 100V [1] 200V [2] 24V [E] 110V [H] 210V [Y] 48V [F] 120V [K] 220V [M] 60V [G] 125V [D] 24V (Low consumption) [L]	2NO [20] 1NO1NC [11] 2NC [02] 2NO [20] 1NO1NC [11] 2NC [02]	SC38DG-□20 SC38DG-□11 SC38DG-□02 SC38DGH-□20 SC38DGH-□11 SC38DGH-□02																		
	Single contact [H]																					
40 [40X]	7.5	18.5	15	40	40	26	60	60										AC operated type [A]	Twin contact [No]	24V [E] 115V [J] 230V [N] 415V [X] 48V [F] 120V [K] 240V [P] 440V [T] 100V [1] 200V [2] 380V [S] 110V [H] 220V [M] 400V [4]	1NO1NC [11]	SC40XA-□11 SC40XAH-□11 SC40XG-□11 SC40XGH-□11
																			Single contact [H]			
									DC operated type [G]	Twin contact [No]	12V [B] 100V [1] 200V [2] 24V [E] 110V [H] 210V [Y] 48V [F] 120V [K] 220V [M] 60V [G] 125V [D]											
										Single contact [H]												
									50 [50X]	11	22	22	50	50	38	80	80	AC operated type [A]	Twin contact [No]	24V [E] 115V [J] 230V [N] 415V [X] 48V [F] 120V [K] 240V [P] 440V [T] 100V [1] 200V [2] 380V [S] 110V [H] 220V [M] 400V [4]		SC40XA-□11 SC40XAH-□11 SC40XG-□11 SC40XGH-□11
																			Single contact [H]			
DC operated type [G]	Twin contact [No]	12V [B] 100V [1] 200V [2] 24V [E] 110V [H] 210V [Y] 48V [F] 120V [K] 220V [M] 60V [G] 125V [D]																				
	Single contact [H]																					
65 [65X]	15	30	37	65	65	60	80	80										AC operated type [A]	Twin contact [No]	24V [E] 115V [J] 230V [N] 415V [X] 48V [F] 120V [K] 240V [P] 440V [T] 100V [1] 200V [2] 380V [S] 110V [H] 220V [M] 400V [4]		SC65XA-□11 SC65XAH-□11 SC65XG-□11 SC65XGH-□11
																			Single contact [H]			
									DC operated type [G]	Twin contact [No]	12V [B] 100V [1] 200V [2] 24V [E] 110V [H] 210V [Y] 48V [F] 120V [K] 220V [M] 60V [G] 125V [D]											
										Single contact [H]												

(Note) The □ in the type field corresponds to the coil voltage specification code.

Magnetic starters

● Ordering information (type)

● Ordering information (type)

SW 09X A H K - M 10 T 007 A
 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)

(1) Series (2) Frame size (3) Coil operation method (A: AC operated type, G: DC operated type, U: Extra pick-up operating coil type)

(4) Auxiliary contact structure specification (No: Standard twin contact, H: High capacity auxiliary contact (with single contact))

(5) Number of heater elements (3: 3-element, K: 2E with open phase detection function) (6) Coil voltage designation code (see the code table on page 13)

(7) Auxiliary contact configuration (8) With or without case cover (T: Without case cover) (9) Heater element rating (10) Reset method (No: Manual reset, A: Automatic reset)

● Rating, type

Frame size	Rated capacity [kW]		Rated operational current [A]		Coil operating method	Auxiliary contact	Coil voltage designation code				Auxiliary contact arrangement	Thermal overload relay rating [A] Rating range [Designation code]		Type
	Three-phase squirrel-cage induction motor (AC-3,AC-3e)		Three-phase squirrel-cage induction motor (AC-3,AC-3e)											
	200-240V	380-440V	200-240V	380-440V										
09 [09X]	2.2	4	11	9	AC operated type [A]	Twin contact [No]	24V [E] 48V [F] 100V [1] 110V [H]	115V [J] 120V [K] 200V [2] 220V [M]	230V [N] 240V [P] 380V [S] 400V [4]	415V [X] 440V [T]	1NO [10] 1NC [01]	0.24-0.36 [P24] 0.34-0.52 [P34] 0.48-0.72 [P48] 0.64-0.96 [P64]	1.7-2.6 [1P7] 2.2-3.4 [2P2] 2.8-4.2 [2P8] 4-6 [004]	SW09XA△-□10T■■■■ SW09XA△-□01T■■■■
					DC operated type [G]	Twin contact [No]	12V [B] 24V [E] 48V [F] 60V [G] 24V (Low consumption) [L]	100V [1] 110V [H] 120V [K] 125V [D]	200V [2] 210V [Y] 220V [M]	1NO [10] 1NC [01]	0.8-1.2 [P80] 0.95-1.45 [P95] 1.4-2.1 [1P4]	5-7.5 [005] 6-9 [006] 7-10.5 [007]	SW09XG△-□10T■■■■ SW09XG△-□01T■■■■	
12 [12X]	2.7	5.5	13	12	AC operated type [A]	Twin contact [No]	24V [E] 48V [F] 100V [1] 110V [H]	115V [J] 120V [K] 200V [2] 220V [M]	230V [N] 240V [P] 380V [S] 400V [4]	415V [X] 440V [T]	1NO [10] 1NC [01]	0.24-0.36 [P24] 0.34-0.52 [P34] 0.48-0.72 [P48] 0.64-0.96 [P64]	2.2-3.4 [2P2] 2.8-4.2 [2P8] 4-6 [004] 5-7.5 [005]	SW12XA△-□10T■■■■ SW12XA△-□01T■■■■
					DC operated type [G]	Twin contact [No]	12V [B] 24V [E] 48V [F] 60V [G] 24V (Low consumption) [L]	100V [1] 110V [H] 120V [K] 125V [D]	200V [2] 210V [Y] 220V [M]	1NO [10] 1NC [01]	0.8-1.2 [P80] 0.95-1.45 [P95] 1.4-2.1 [1P4] 1.7-2.6 [1P7]	6-9 [006] 7-10.5 [007] 9-13 [009]	SW12XG△-□10T■■■■ SW12XG△-□01T■■■■	
18 [18X]	3.7	7.5	18	18	AC operated type [A]	Twin contact [No]	24V [E] 48V [F] 100V [1] 110V [H]	115V [J] 120V [K] 200V [2] 220V [M]	230V [N] 240V [P] 380V [S] 400V [4]	415V [X] 440V [T]	1NO [10] 1NC [01]	0.24-0.36 [P24] 0.34-0.52 [P34] 0.48-0.72 [P48] 0.64-0.96 [P64]	2.8-4.2 [2P8] 4-6 [004] 5-7.5 [005] 6-9 [006]	SW18XA△-□10T■■■■ SW18XA△-□01T■■■■
					DC operated type [G]	Twin contact [No]	12V [B] 24V [E] 48V [F] 60V [G] 24V (Low consumption) [L]	100V [1] 110V [H] 120V [K] 125V [D]	200V [2] 210V [Y] 220V [M]	1NO [10] 1NC [01]	0.8-1.2 [P80] 0.95-1.45 [P95] 1.4-2.1 [1P4] 1.7-2.6 [1P7] 2.2-3.4 [2P2]	7-10.5 [007] 9-13 [009] 13-16.5 [013] 15-18 [015]	SW18XG△-□10T■■■■ SW18XG△-□01T■■■■	
20 [20X]	4	7.5	20	20	AC operated type [A]	Twin contact [No]	24V [E] 48V [F] 100V [1] 110V [H]	115V [J] 120V [K] 200V [2] 220V [M]	230V [N] 240V [P] 380V [S] 400V [4]	415V [X] 440V [T]	1NO [10] 1NC [01]	0.24-0.36 [P24] 0.34-0.52 [P34] 0.48-0.72 [P48] 0.64-0.96 [P64]	2.8-4.2 [2P8] 4-6 [004] 5-7.5 [005] 6-9 [006]	SW20XA△-□10T■■■■ SW20XA△-□01T■■■■
					DC operated type [G]	Twin contact [No]	12V [B] 24V [E] 48V [F] 60V [G] 24V (Low consumption) [L]	100V [1] 110V [H] 120V [K] 125V [D]	200V [2] 210V [Y] 220V [M]	1NO [10] 1NC [01]	0.8-1.2 [P80] 0.95-1.45 [P95] 1.4-2.1 [1P4] 1.7-2.6 [1P7] 2.2-3.4 [2P2]	7-10.5 [007] 9-13 [009] 12-18 [012] 18-24 [018]	SW20XG△-□10T■■■■ SW20XG△-□01T■■■■	
20 [20D]	4	7.5	20	20	AC operated type [A]	Twin contact [No]	24V [E] 48V [F] 100V [1] 110V [H]	115V [J] 120V [K] 200V [2] 220V [M]	230V [N] 240V [P] 380V [S] 400V [4]	415V [X] 440V [T]	2NO [20] 1NO1NC [11] 2NC [02]			SW20DA△-□20T■■■■ SW20DA△-□11T■■■■ SW20DA△-□02T■■■■
					DC operated type [G]	Twin contact [No]	12V [B] 24V [E] 48V [F] 60V [G] 24V (Low consumption) [L]	100V [1] 110V [H] 120V [K] 125V [D]	200V [2] 210V [Y] 220V [M]	2NO [20] 1NO1NC [11] 2NC [02]			SW20DG△-□20T■■■■ SW20DG△-□11T■■■■ SW20DG△-□02T■■■■	

Product overview

Frame size	Rated capacity [kW]		Rated operational current [A]		Coil operating method	Auxiliary contact	Coil voltage designation code				Auxiliary contact arrangement	Thermal overload relay rating [A] Rating range [Designation code]	Type
	Three-phase squirrel-cage induction motor (AC-3,AC-3e)		Three-phase squirrel-cage induction motor (AC-3,AC-3e)										
	200-240V	380-440V	200-240V	380-440V									
26 [26X]	5.5	11	26	26	AC operated type [A]	Twin contact [No]	24V [E] 48V [F] 100V [1] 110V [H]	115V [J] 120V [K] 200V [2] 220V [M]	230V [N] 240V [P] 380V [S] 400V [4]	415V [X] 440V [T]	1NO [10] 1NC [01]	4-6 [004] 5-7.5 [005] 6-9 [006] 7-10.5 [007] 9-13 [009] 12-18 [012] 18-24 [018] 20-26 [020]	SW26XA△-□10T■■■■ SW26XA△-□01T■■■■
					DC operated type [G]	Twin contact [No]	12V [B] 24V [E] 48V [F] 60V [G] 24V (Low consumption) [L]	100V [1] 110V [H] 120V [K] 125V [D]	200V [2] 210V [Y] 220V [M]	1NO [10] 1NC [01]	SW26XG△-□10T■■■■ SW26XG△-□01T■■■■		
26 [26D]	5.5	11	26	26	AC operated type [A]	Twin contact [No]	24V [E] 48V [F] 100V [1] 110V [H]	115V [J] 120V [K] 200V [2] 220V [M]	230V [N] 240V [P] 380V [S] 400V [4]	415V [X] 440V [T]	2NO [20] 1NO1NC [11] 2NC [02]		SW26DA△-□20T■■■■ SW26DA△-□11T■■■■ SW26DA△-□02T■■■■
					DC operated type [G]	Twin contact [No]	12V [B] 24V [E] 48V [F] 60V [G] 24V (Low consumption) [L]	100V [1] 110V [H] 120V [K] 125V [D]	200V [2] 210V [Y] 220V [M]	2NO [20] 1NO1NC [11] 2NC [02]	SW26DG△-□20T■■■■ SW26DG△-□11T■■■■ SW26DG△-□02T■■■■		
38 [38X]	7.5	18.5	35	38	AC operated type [A]	Twin contact [No]	24V [E] 48V [F] 100V [1] 110V [H]	115V [J] 120V [K] 200V [2] 220V [M]	230V [N] 240V [P] 380V [S] 400V [4]	415V [X] 440V [T]	1NO [10] 1NC [01]	4-6 [004] 5-7.5 [005] 6-9 [006] 7-10.5 [007] 9-13 [009] 12-18 [012] 18-24 [018] 20-26 [020] 26-32 [026] 32-38 [032]	SW38XA△-□10T■■■■ SW38XA△-□01T■■■■
					DC operated type [G]	Twin contact [No]	12V [B] 24V [E] 48V [F] 60V [G] 24V (Low consumption) [L]	100V [1] 110V [H] 120V [K] 125V [D]	200V [2] 210V [Y] 220V [M]	1NO [10] 1NC [01]	SW38XG△-□10T■■■■ SW38XG△-□01T■■■■		
38 [38D]	7.5	18.5	35	38	AC operated type [A]	Twin contact [No]	24V [E] 48V [F] 100V [1] 110V [H]	115V [J] 120V [K] 200V [2] 220V [M]	230V [N] 240V [P] 380V [S] 400V [4]	415V [X] 440V [T]	2NO [20] 1NO1NC [11] 2NC [02]		SW38DA△-□20T■■■■ SW38DA△-□11T■■■■ SW38DA△-□02T■■■■
					DC operated type [G]	Twin contact [No]	12V [B] 24V [E] 48V [F] 60V [G] 24V (Low consumption) [L]	100V [1] 110V [H] 120V [K] 125V [D]	200V [2] 210V [Y] 220V [M]	2NO [20] 1NO1NC [11] 2NC [02]	SW38DG△-□20T■■■■ SW38DG△-□11T■■■■ SW38DG△-□02T■■■■		
40 [40X]	7.5	18.5	40	40	AC operated type [A]	Twin contact [No]	24V [E] 48V [F] 100V [1] 110V [H]	115V [J] 120V [K] 200V [2] 220V [M]	230V [N] 240V [P] 380V [S] 400V [4]	415V [X] 440V [T]	1NO1NC [11]	4-6 [004] 5-8 [005] 6-9 [006] 7-11 [007] 9-13 [009] 12-18 [012] 18-26 [018] 24-36 [024] 32-42 [032]	SW40XA△-□11T■■■■
					DC operated type [G]	Twin contact [No]	12V [B] 24V [E] 48V [F] 60V [G]	100V [1] 110V [H] 120V [K] 125V [D]	200V [2] 210V [Y] 220V [M]				SW40XG△-□11T■■■■
50 [50X]	11	22	50	50	AC operated type [A]	Twin contact [No]	24V [E] 48V [F] 100V [1] 110V [H]	115V [J] 120V [K] 200V [2] 220V [M]	230V [N] 240V [P] 380V [S] 400V [4]	415V [X] 440V [T]	1NO1NC [11]	7-11 [007] 9-13 [009] 12-18 [012] 18-26 [018] 24-36 [024] 32-42 [032] 36-46 [036] 44-54 [044]	SW40XA△-□11T■■■■
					DC operated type [G]	Twin contact [No]	12V [B] 24V [E] 48V [F] 60V [G]	100V [1] 110V [H] 120V [K] 125V [D]	200V [2] 210V [Y] 220V [M]				SW40XG△-□11T■■■■
65 [65X]	15	30	65	65	AC operated type [A]	Twin contact [No]	24V [E] 48V [F] 100V [1] 110V [H]	115V [J] 120V [K] 200V [2] 220V [M]	230V [N] 240V [P] 380V [S] 400V [4]	415V [X] 440V [T]	1NO1NC [11]	7-11 [007] 9-13 [009] 12-18 [012] 18-26 [018] 24-36 [024] 32-42 [032] 36-46 [036] 44-54 [044] 53-65 [053]	SW65XA△-□11T■■■■
					DC operated type [G]	Twin contact [No]	12V [B] 24V [E] 48V [F] 60V [G]	100V [1] 110V [H] 120V [K] 125V [D]	200V [2] 210V [Y] 220V [M]				SW65XG△-□11T■■■■

Note: □ corresponds to the coil voltage designation code (see the code table on page 13).

■■■■ corresponds to the heater element designation code.

△ corresponds to the Number of heater elements.

Thermal overload relays

● Ordering information (type)

● Ordering information (type)					
TR	18X	K	H	-	007 A
(1)	(2)	(3)	(4)	(5)	(6)
(1) Series (2) Frame size (3) Number of heater elements (3: 3-element, K: 2E (with open phase detection function))					
(4) No: For magnetic starters, H: For separate mounting (5) Heater element rating (6) Reset method (No: Manual reset, A: Automatic reset)					

● Rating, type

Frame	Number of heater elements	Mounting classification	Type ①	Heater element code
TR18X	3-element	For magnetic starters	TR18X3-□	0.1 to 15A
		For separate mounting	TR18X3H-□	
	2E (with open phase detection function)	For magnetic starters	TR18XK-□	
		For separate mounting	TR18XKH-□	
TR38X	3-element	For magnetic starters	TR38X3-□	0.1 to 32A
		For separate mounting	TR38X3H-□	
	2E (with open phase detection function)	For magnetic starters	TR38XK-□	
		For separate mounting	TR38XKH-□	
TR65X	3-element	For magnetic starters	TR65X3-□	4 to 65A
		For separate mounting	TR65X3H-□	
	2E (with open phase detection function)	For magnetic starters	TR65XK-□	
		For separate mounting	TR65XKH-□	

① □ corresponds to the heater element designation code. Specify A at the end of the automatic reset type.

* Separate mounting units use the current product (type: TZ1H13N) (can be purchased separately).

● Heater element rating

Frame	TR18X	TR38X	TR65X
Rating range [A]	0.1-0.15 : [P10] 0.13-0.2 : [P13] 0.18-0.27 : [P18] 0.24-0.36 : [P24] 0.34-0.52 : [P34] 0.48-0.72 : [P48] 0.64-0.96 : [P64] 0.8-1.2 : [P80] 0.95-1.45 : [P95] 1.4-2.1 : [1P4] 1.7-2.6 : [1P7] 2.2-3.4 : [2P2] 2.8-4.2 : [2P8]	0.1-0.15 : [P10] 0.13-0.2 : [P13] 0.18-0.27 : [P18] 0.24-0.36 : [P24] 0.34-0.52 : [P34] 0.48-0.72 : [P48] 0.64-0.96 : [P64] 0.8-1.2 : [P80] 0.95-1.45 : [P95] 1.4-2.1 : [1P4] 1.7-2.6 : [1P7] 2.2-3.4 : [2P2] 2.8-4.2 : [2P8]	4-6 : [004] 5-8 : [005] 6-9 : [006] 7-11 : [007] 9-13 : [009] 12-18 : [012] 18-26 : [018] 24-36 : [024] 32-42 : [032] 36-46 : [036] 44-54 : [044] 53-65 : [053]
* The symbol in [] indicates the heater element designation code.	4-6 : [004] 5-7.5 : [005] 6-9 : [006] 7-10.5 : [007] 9-13 : [009] 13-16.5 : [013] 15-18 : [015]	4-6 : [004] 5-7.5 : [005] 6-9 : [006] 7-10.5 : [007] 9-13 : [009] 12-18 : [012] 18-24 : [018] 20-26 : [020] 26-32 : [026] 32-38 : [032]	

Product overview

Control coil voltage designation code

● AC operated type

Type	Coil voltage code	Designation code	Coil voltage and frequency
SC09XA	AC24V	E	24V 50Hz / 24-26V 60Hz
SC12XA	AC48V	F	48V 50Hz / 48-52V 60Hz
SC18XA	AC100V	1	100V 50Hz / 100-110V 60Hz
SC20XA	AC110V	H	100-110V 50Hz / 110-120V 60Hz
SC26XA	AC115V	J	110-115V 50Hz / 115-120V 60Hz
SC32XA	AC120V	K	110-120V 50Hz / 120-130V 60Hz
SC38XA	AC200V	2	200V 50Hz / 200-220V 60Hz
SC20DA	AC220V	M	200-220V 50Hz / 220-240V 60Hz
SC26DA	AC230V	N	210-230V 50Hz / 230-250V 60Hz
SC38DA	AC240V	P	220-240V 50Hz / 240-260V 60Hz
SC40XA	AC380V	S	346-380V 50Hz / 380-420V 60Hz
SC50XA	AC400V	4	380-400V 50Hz / 400-440V 60Hz
SC65XA	AC415V	X	380-415V 50Hz / 415-440V 60Hz
	AC440V	T	415-440V 50Hz / 440-480V 60Hz

(Note) The coil voltage code refers to the specified voltage established to simplify the control coil voltage designation. The coil voltage and frequency in the above table (not the coil voltage code) are indicated on the main unit.

● DC operated type (Standard)

Type	Coil voltage code	Designation code	Coil voltage
SC09XG	DC12V	B	DC12V
SC12XG	DC24V	E	DC24V
SC18XG	DC48V	F	DC48V
SC20XG	DC60V	G	DC60V
SC26XG	DC100V	1	DC100V
SC32XG	DC110V	H	DC110V
SC38XG	DC120V	K	DC120V
SC20DG	DC125V	D	DC125V
SC26DG	DC200V	2	DC200V
SC38DG	DC210V	Y	DC210V
SC40XG	DC220V	M	DC220V
SC50XG			
SC65XG			

● DC operated type (low consumption)

Type	Coil voltage code	Designation code	Coil voltage
SC09XG SC20XG SC20DG	DC24V	L	DC24V
SC12XG SC26XG SC26DG			
SC18XG SC32XG SC38DG			
SC38XG			

Operating coil characteristics

● AC operated type

Type	Power consumption [VA]				Watt loss [W]		Closing voltage [V]		Drop-out voltage [V]		Operating time [ms]	
	Inrush		Sealed								Coil ON → Main contact ON	Coil OFF → Main contact OFF
	200V 50Hz	220V 60Hz	200V 50Hz	220V 60Hz	200V 50Hz	220V 60Hz	50Hz	60Hz	50Hz	60Hz		
SC09XA	66	70	7.2	7.2	2.2	2.3	111 to 131	126 to 146	56 to 84	64 to 92	8 to 19	4 to 15
SC12XA	66	70	7.2	7.2	2.2	2.3	111 to 131	126 to 146	56 to 84	64 to 92	8 to 19	4 to 15
SC18XA	66	70	7.2	7.2	2.2	2.3	111 to 131	126 to 146	56 to 84	64 to 92	8 to 19	4 to 15
SC20XA	90	95	9	9	2.7	2.8	118 to 136	120 to 140	75 to 105	90 to 120	9 to 20	4 to 15
SC26XA	90	95	9	9	2.7	2.8	118 to 136	120 to 140	75 to 105	90 to 120	9 to 20	4 to 15
SC32XA	90	95	9	9	2.7	2.8	118 to 136	120 to 140	75 to 105	90 to 120	9 to 20	4 to 15
SC38XA	90	95	9	9	2.7	2.8	118 to 136	120 to 140	75 to 105	90 to 120	9 to 20	4 to 15
SC20DA	90	95	9	9	2.7	2.8	118 to 136	120 to 140	75 to 105	90 to 120	9 to 20	4 to 15
SC26DA	90	95	9	9	2.7	2.8	118 to 136	120 to 140	75 to 105	90 to 120	9 to 20	4 to 15
SC38DA	90	95	9	9	2.7	2.8	118 to 136	120 to 140	75 to 105	90 to 120	9 to 20	4 to 15
SC40XA	Coming soon											
SC50XA												
SC65XA												

(Note 1) Coil rating: Characteristic of 200 V 50 Hz/200-220 V 60 Hz.

(Note 2) The coil (magnet) power consumption is equivalent even when the coil rated voltage is not rated 200 V AC.

(Note 3) Operating time indicates the case of 200 V AC 50 Hz. Operating time is a reference value and is not guaranteed.

(Note 4) The making voltage and drop-out voltage of the 100 V (100 V AC 50 Hz/100-110 V 60 Hz) coil are about half of those shown above.

(Note 5) The values in the above table show an example in the 20°C cold state.

● DC operated types (Standard)

Type	Power consumption [W]		Time constant [ms]	Closing voltage [V]	Drop-out voltage [V]	Operating time [ms]	
	Inrush	Sealed				Coil ON → Main contact ON	Coil OFF → Main contact OFF
	24V	24V					
SC09XG	3.9	3.9	30	11 to 16	3 to 7	49 to 54	10 to 23
SC12XG	3.9	3.9	30	11 to 16	3 to 7	49 to 54	10 to 23
SC18XG	3.9	3.9	30	11 to 16	3 to 7	49 to 54	10 to 23
SC20XG	4.6	4.6	34	11 to 16	3 to 7	57 to 64	7 to 20
SC26XG	4.6	4.6	34	11 to 16	3 to 7	57 to 64	7 to 20
SC32XG	4.6	4.6	34	11 to 16	3 to 7	57 to 64	7 to 20
SC38XG	4.6	4.6	34	11 to 16	3 to 7	57 to 64	7 to 20
SC20DG	4.6	4.6	34	11 to 16	3 to 7	57 to 64	7 to 20
SC26DG	4.6	4.6	34	11 to 16	3 to 7	57 to 64	7 to 20
SC38DG	4.6	4.6	34	11 to 16	3 to 7	57 to 64	7 to 20
SC40XG	Coming soon						
SC50XG							
SC65XG							

● DC operated type (low consumption)

Type	Power consumption [W]		Time constant [ms]	Closing voltage [V]	Drop-out voltage [V]	Operating time [ms]	
	Inrush	Sealed				Coil ON → Main contact ON	Coil OFF → Main contact OFF
	24V	24V					
SC09XG-L	2.4	2.4	40	12 to 17	4 to 8	64 to 73	10 to 23
SC12XG-L	2.4	2.4	40	12 to 17	4 to 8	64 to 73	10 to 23
SC18XG-L	2.4	2.4	40	12 to 17	4 to 8	64 to 73	10 to 23
SC20XG-L	2.4	2.4	46	14 to 19	5 to 9	86 to 101	7 to 20
SC26XG-L	2.4	2.4	46	14 to 19	5 to 9	86 to 101	7 to 20
SC32XG-L	2.4	2.4	46	14 to 19	5 to 9	86 to 101	7 to 20
SC38XG-L	2.4	2.4	46	14 to 19	5 to 9	86 to 101	7 to 20
SC20DG-L	2.4	2.4	46	14 to 19	5 to 9	86 to 101	7 to 20
SC26DG-L	2.4	2.4	46	14 to 19	5 to 9	86 to 101	7 to 20
SC38DG-L	2.4	2.4	46	14 to 19	5 to 9	86 to 101	7 to 20

(Note 1) Coil rating: Characteristic of 24 V DC.

(Note 2) The coil (magnet) power consumption is equivalent even when the coil rated voltage is not a rated 24 V DC. * The low-consumption type is only for 24 V.

(Note 3) Operating time is a reference value and is not guaranteed.

(Note 4) The values in the above table show an example in the 20°C cold state.

Product overview

Options

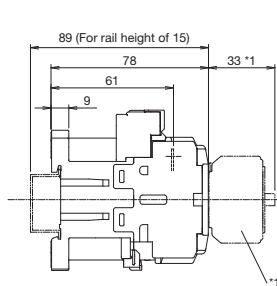
Product name	Type	Specifications			Applicable models	Remarks
Auxiliary contact block (front mounting)	SZ3A40	Bifurcated contact	4-poles	4NO	SC09X~SC65X SC20D, SC26D, SC38D SCH4X	
	SZ3A31			3NO1NC		
	SZ3A22			2NO2NC		
	SZ3A20		2-poles	2NO		
	SZ3A11			1NO1NC		
	SZ3A02			2NC		
	SZ3A40H	Single contact	4-poles	4NO		
	SZ3A31H			3NO1NC		
	SZ3A22H			2NO2NC		
	SZ3A20H		2-poles	2NO		
	SZ3A11H			1NO1NC		
	SZ3A02H			2NC		
Auxiliary contact block (side mounting)	SZ3AS1	Bifurcated contact	1NO1NC		SC09X~SC65X SC20D, SC26D, SC38D SCH4X	
	SZ3AS1H	Single contact	1NO1NC			
Coil-surge suppression unit	SZ-Z1	Built-in varistor	AC/DC24-48V			
	SZ-Z2		AC/DC100-250V			
	SZ-Z3		AC380-440V			
	SZ-Z4	Built-in CR	AC/DC24-48V			
	SZ-Z5		AC/DC100-250V			
Interlock unit	SZ3RM				SC09X~SC65X, SC20D, SC26D, SC38D	
Main circuit conductor kit	SZ3RW09X	Power side + load side			SC09X~18X	
	SZ3RW20X	Power side + load side			SC20X	
	SZ3RW26X	Power side + load side			SC26X~38X	
	SZ3RW20D	Power side + load side			SC20D	
	SZ3RW26D	Power side + load side			SC26D~38D	
	SZ3RW40X	Power side + load side			SC40X, SC50X, SC65X	Scheduled for release
Three-phase parallel terminal plate	SZ-SP1	For single-phase resistance load type assembly			SC09X~18X	
	SZ3SP2				SC20X~38X, SC20D, SC26D, SC38D	
	SZ3SP3				SC40X, SC50X, SC65X	Scheduled for release
Separate mounting unit for thermal overload relay	TZ1H13N	For separate mounting type thermal overload relay assembly			TR18X	
	TZ1H26N				TR38X	
	SZ-HD/T				TR65X	
Live-section protective cover	SZ3JC09X	For magnetic contactor			SC09X~18X	
	SZ3JC20X				SC20X~38X	
	SZ3JC20D				SC20D~38D	
	SZ3JC40X				SC40X, SC50X, SC65X	Scheduled for release
	SZ3JW09X	For magnetic starter			SW09X~18X	
	SZ3JW20X				SW20X~38X	
	SZ3JW20D				SW20D~38D	
	SZ3JW40X				SW40X, SW50X, SW65X	Scheduled for release
Fault detector unit	SY-F-A3/M	Operating voltage: 100 to 120 V AC, output contact: SPDT			SC09X~SC65X	
	SY-F-A4/M	Operating voltage: 100 to 120 V AC, output contact: SPDT			SC20D, SC26D, SC38D	
Thermal dial cover	SZ-DA				TR65X	
Thermal overload relay reset release	SZ-R1	Release length: 300 mm			TR18X, TR38X	
	SZ-R2	Release length: 500 mm			TR18X, TR38X	
	SZ-R3	Release length: 700 mm			TR18X, TR38X	
	SZ-R4	Release length: 300 mm			TR65X	
	SZ-R5	Release length: 500 mm			TR65X	
	SZ-R6	Release length: 700 mm			TR65X	
Adapter plate	SZ3APR18X	SC(SW)-4-0RM → SC(SW)18R			SC(SW)18R	
	SZ3AP26D	SC(SW)-N1,N2 → SC(SW)26, 38			SC(SW)26, SC(SW)38	
	SZ3AP50X	SC(SW)-N2S,N3 → SC(SW)50, 65			SC(SW)50, SC(SW)65	Scheduled for release
	SZ3APR26X	SC(SW)-N1,N2RM → SC(SW)26, 38R			SC(SW)26, SC(SW)38R	
	SZ3APR50X	SC(SW)-N2S,N3RM → SC(SW)50, 65R			SC(SW)50, SC(SW)65R	Scheduled for release

Outline and wiring diagram

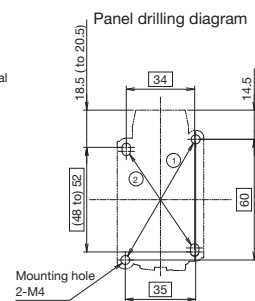
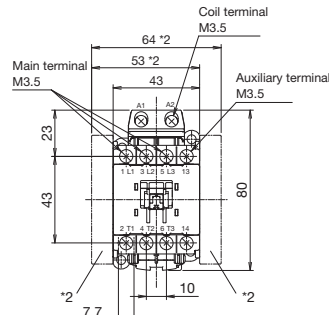
● AC operated type magnetic contactor

[Unit : mm]

SC09XA
SC12XA
SC18XA



*1 When the auxiliary contact unit (front mounting) is mounted
*2 When the auxiliary contact unit (side mounting) is mounted

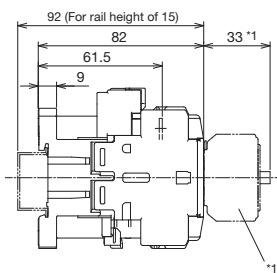


Note: Mount at two diagonal mounting holes.
① 35×60 : Mounting holes for IEC
② 34×(48 to 52) : Compatible with SC-03, SC-0, SC-05, SC-4-0

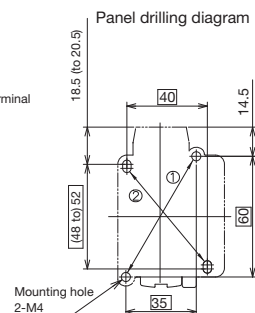
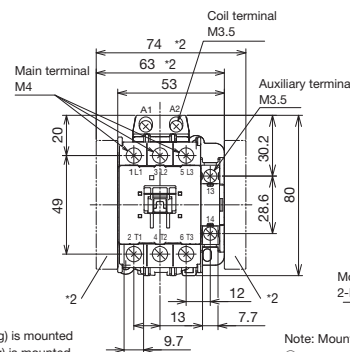
Auxiliary contact	Contact arrangement
1NO	
1NC	

Weight : 0.27kg

SC20XA
SC26XA
SC32XA
SC38XA



*1 When the auxiliary contact unit (front mounting) is mounted
*2 When the auxiliary contact unit (side mounting) is mounted

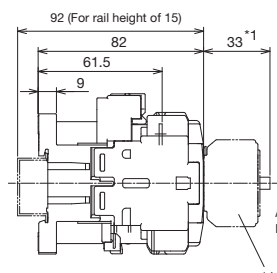


Note: Mount at two diagonal mounting holes.
① 35×60 : Mounting holes for IEC
② 40×(48 to 52)

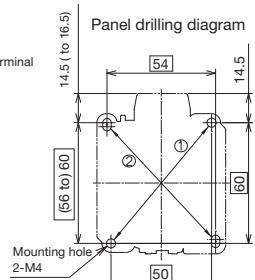
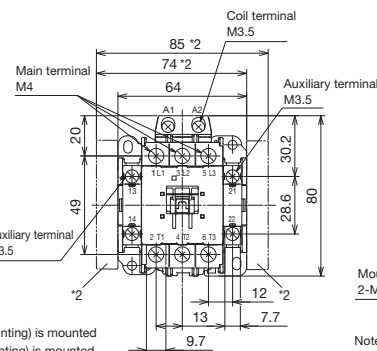
Auxiliary contact	Contact arrangement
1NO	
1NC	

Weight : 0.36kg

SC20DA
SC26DA
SC38DA



*1 When the auxiliary contact unit (front mounting) is mounted
*2 When the auxiliary contact unit (side mounting) is mounted



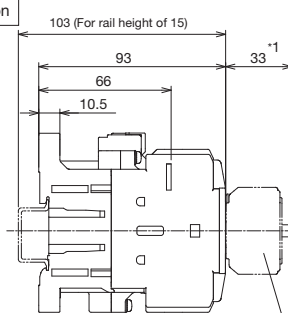
Note: Mount at two diagonal mounting holes.
① 50×60 : Mounting holes for IEC
② 54×(56 to 60) : Compatible with SC-5-1

Auxiliary contact	Contact arrangement
2NO	
1NO1NC	
2NC	

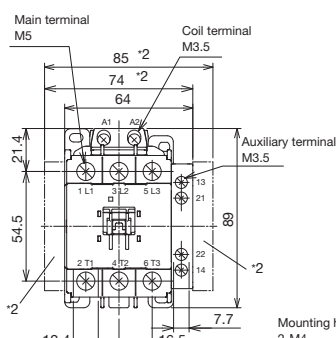
Weight : 0.38kg

SC40XA
SC50XA
SC65XA

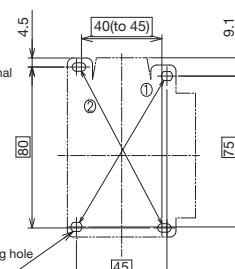
Coming soon



*1 When the auxiliary contact unit (front mounting) is mounted
*2 When the auxiliary contact unit (side mounting) is mounted



Panel drilling diagram



Note: Mount at two diagonal mounting holes.
① 45×75 : Compatible with SC-N1,N2
② 40 (to 45) × 80 : Mounting holes for IEC

Auxiliary contact	Contact arrangement
1NO1NC	

Weight : 0.52kg

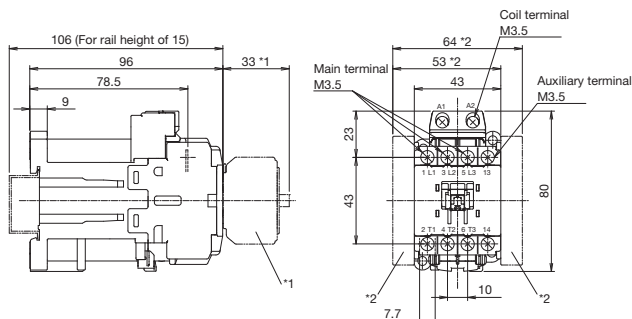
Product overview

Outline and wiring diagram

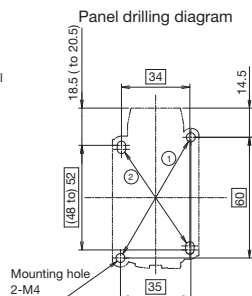
● DC operated type magnetic contactor

[Unit : mm]

SC09XG
SC12XG
SC18XG



*1 When the auxiliary contact unit (front mounting) is mounted
*2 When the auxiliary contact unit (side mounting) is mounted

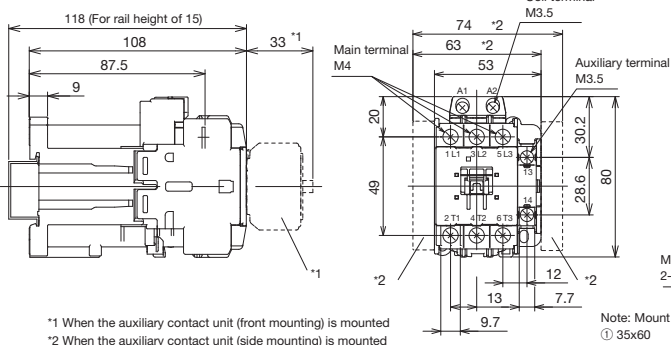


Note: Mount at two diagonal mounting holes.
① 35x60 : Mounting holes for IEC
② 34x(48 to)52 : Compatible with SC-03/G, SC-0/G, SC-05/G, SC-4-0/G

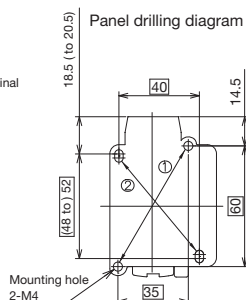
Auxiliary contact	Contact arrangement
1NO	
1NC	

Weight : 0.35kg

SC20XG
SC26XG
SC32XG
SC38XG



*1 When the auxiliary contact unit (front mounting) is mounted
*2 When the auxiliary contact unit (side mounting) is mounted

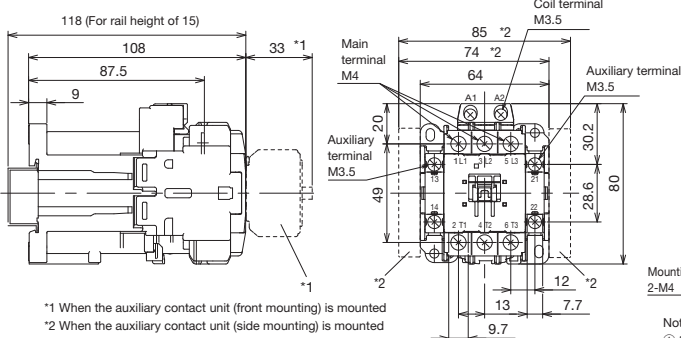


Note: Mount at two diagonal mounting holes.
① 35x60 : Mounting holes for IEC
② 40x(48 to)52

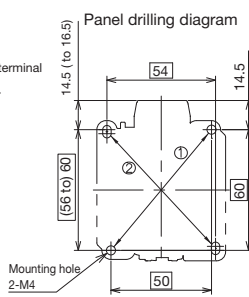
Auxiliary contact	Contact arrangement
1NO	
1NC	

Weight : 0.49kg

SC20DG
SC26DG
SC38DG



*1 When the auxiliary contact unit (front mounting) is mounted
*2 When the auxiliary contact unit (side mounting) is mounted



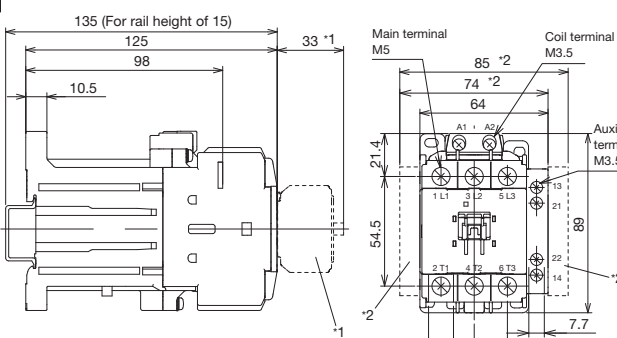
Note: Mount at two diagonal mounting holes.
① 50x60 : Mounting holes for IEC
② 54x(56 to)60 : Compatible with SC-5-1/G

Auxiliary contact	Contact arrangement
2NO	
1NO1NC	
2NC	

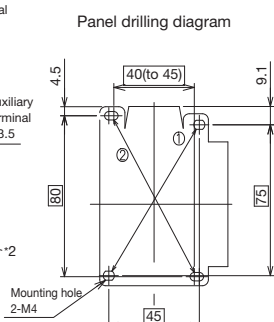
Weight : 0.52kg

SC40XG
SC50XG
SC65XG

Coming soon



*1 When the auxiliary contact unit (front mounting) is mounted
*2 When the auxiliary contact unit (side mounting) is mounted



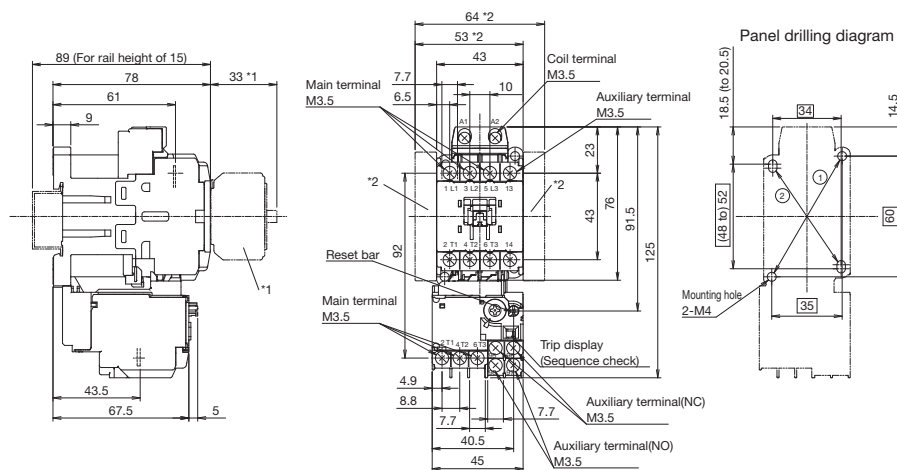
Note: Mount at two diagonal mounting holes.
① 45x75 : Compatible with SC-N1/G, N2/G
② 40(to 45)x 80 : Mounting holes for IEC

Auxiliary contact	Contact arrangement
1NO1NC	

Weight : 0.78kg

- AC operated type magnetic starter

[Unit : mm]



*1 When the auxiliary contact unit (front mounting) is mounted
*2 When the auxiliary contact unit (side mounting) is mounted

Note: Mount at two diagonal mounting holes.

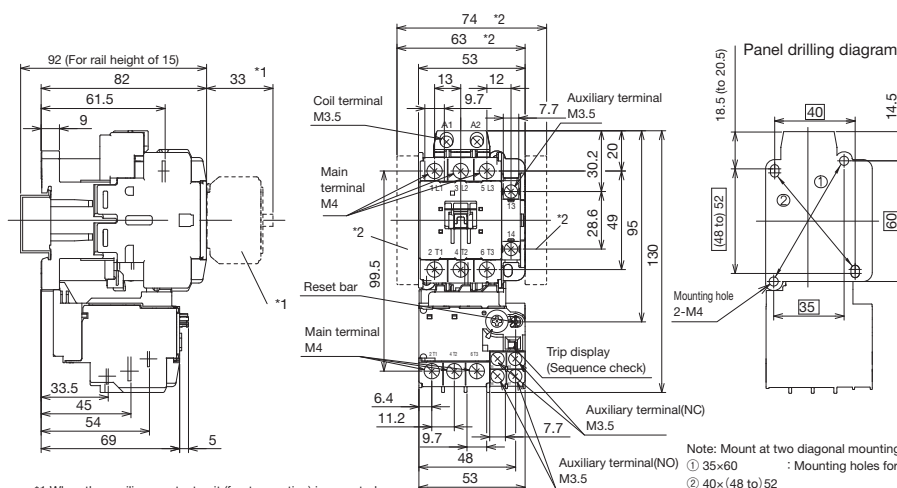
① 35×60 : Mounting holes for IEC

② 34×(48 to)52 : Compatible with SW-03, SW-0, SW-05, SW-4-0

Auxiliary contact	Contact arrangement
1NO	
1NC	
The thermal overload relays shown above correspond to three heater elements. Three heater elements are shown on the right.	

Weight : 0.37kg

35mm



*1 When the auxiliary contact unit (front mounting) is mounted
*2 When the auxiliary contact unit (side mounting) is mounted

Note: Mount at two diagonal mounting holes.

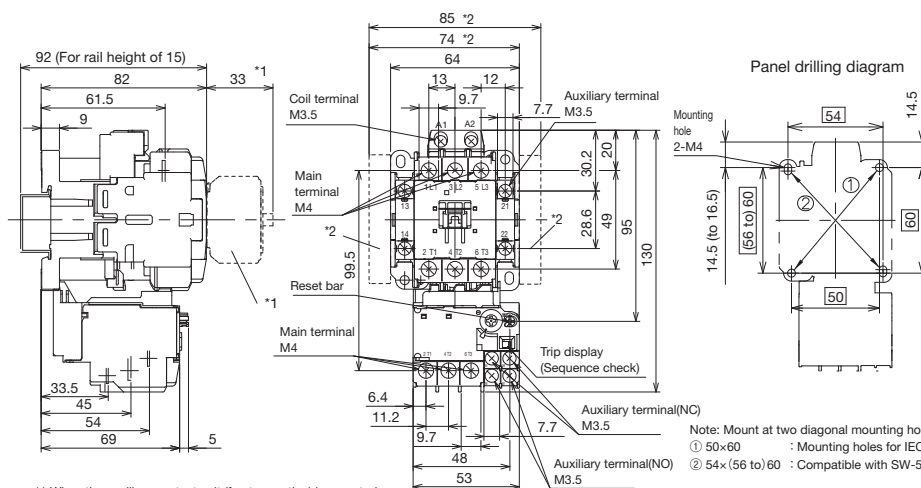
① 35x60 : Mounting holes for IEC

② 40x(48 to) 52

Auxiliary contact	Contact arrangement
1NO	
1NC	
The thermal overload relays shown above correspond to two heater elements. Three heater elements are shown on the next page.	

Weight : 0.49kg

35mm



*1 When the auxiliary contact unit (front mounting) is mounted
*2 When the auxiliary contact unit (side mounting) is mounted

Note: Mount at two diagonal mounting holes.

- ① 50×60 : Mounting holes for IEC
- ② 54×(56 to) 60 : Compatible with SW-5-1

Auxiliary contact	Contact arrangement
2NO	
1NO1NC	
2NC	

The thermal overload relays shown above correspond to two heater elements. Three heater elements are shown on the right

Weight : 0.51kg

Product overview

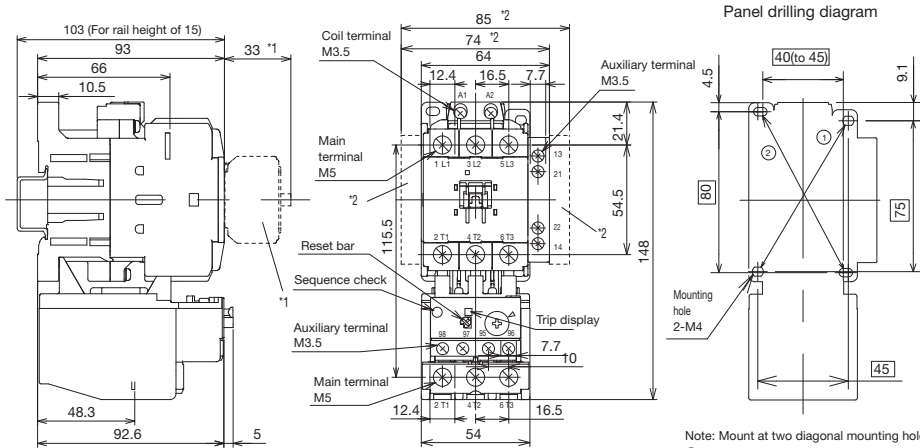
Outline and wiring diagram

● AC operated type magnetic starter (continued)

[Unit : mm]

SW40XA
SW50XA
SW65XA

Coming soon



*1 When the auxiliary contact unit (front mounting) is mounted
*2 When the auxiliary contact unit (side mounting) is mounted

Note: Mount at two diagonal mounting holes.
① 45×75 : Compatible with SW-N1, SW-N2
② 40(to 45)×80 : Mounting holes for IEC

Auxiliary contact	Contact arrangement
1NO1NC	
The thermal overload relays shown above correspond to two heater elements. Three heater elements are shown on the right.	

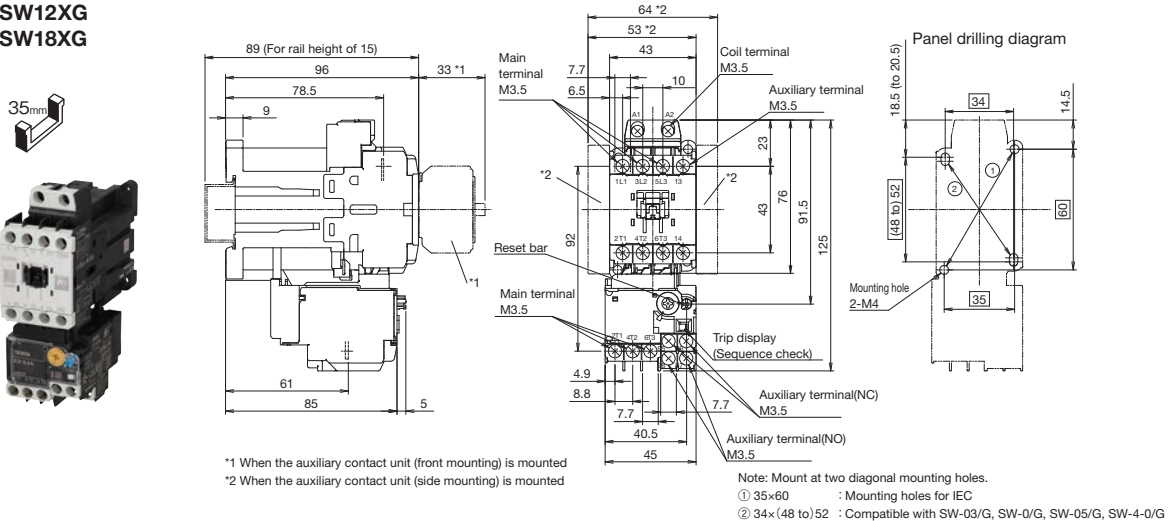
Weight : 0.75kg

Outline and wiring diagram

● DC operated type magnetic starter

[Unit : mm]

SW09XG
SW12XG
SW18XG

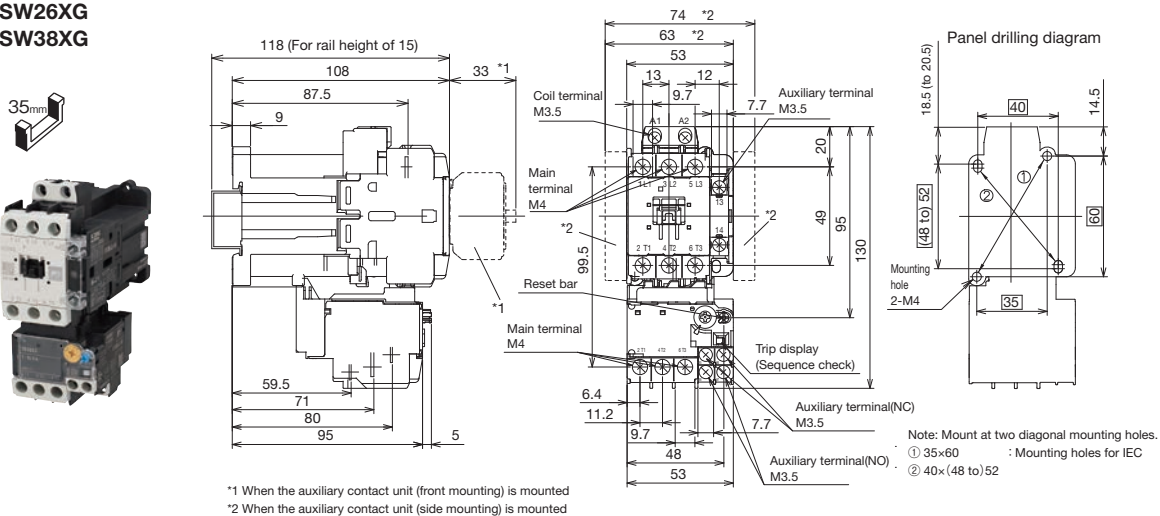


Auxiliary contact	Contact arrangement
1NO	
1NC	

The thermal overload relays shown above correspond to two heater elements. Three heater elements are shown on the right.

Weight : 0.45kg

SW20XG
SW26XG
SW38XG

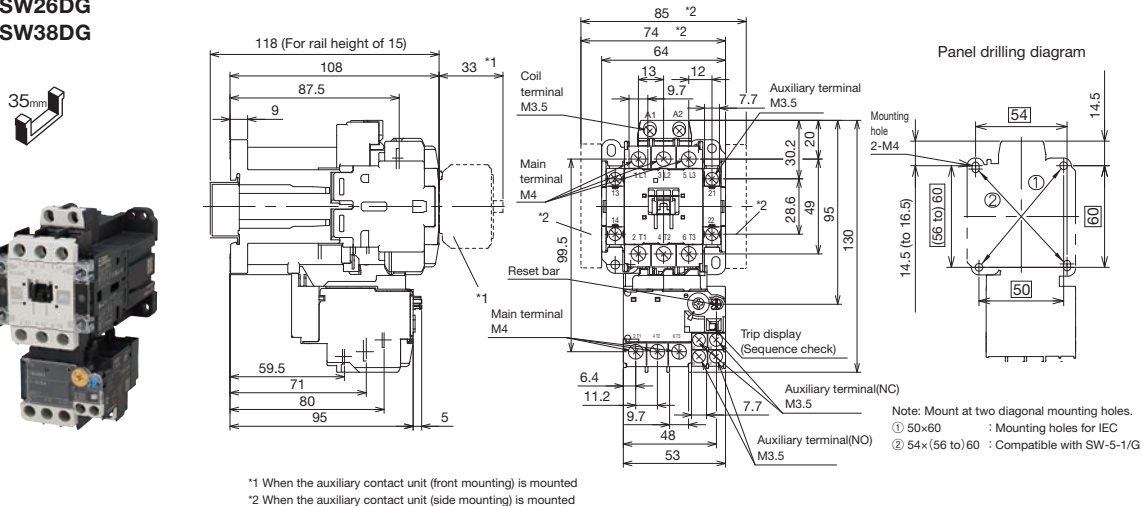


Auxiliary contact	Contact arrangement
1NO	
1NC	

The thermal overload relays shown above correspond to two heater elements. Three heater elements are shown on the right.

Weight : 0.62kg

SW20DG
SW26DG
SW38DG



Auxiliary contact	Contact arrangement
2NO	
1NO1NC	
2NC	

The thermal overload relays shown above correspond to two heater elements. Three heater elements are shown on the right.

Weight : 0.65kg

Product overview

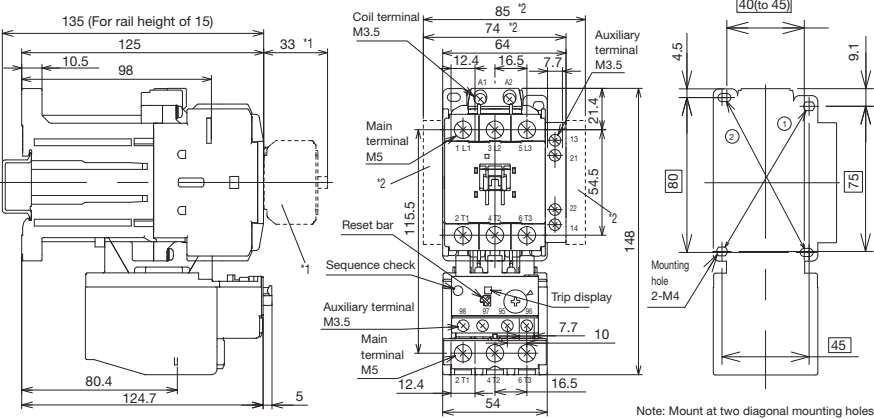
Outline and wiring diagram

● DC operated type magnetic starter (continued)

[Unit : mm]

SW40XG
SW50XG
SW65XG

Coming soon



*1 When the auxiliary contact unit (front mounting) is mounted
*2 When the auxiliary contact unit (side mounting) is mounted

Note: Mount at two diagonal mounting holes.
① 45×75 : Compatible with SW-N1/G, SW-N2/G
② 40 (to 45)×80 : Mounting holes for IEC

Auxiliary contact	Contact arrangement
1NO1NC	
The thermal overload relays shown above correspond to two heater elements. Three heater elements are shown on the right.	

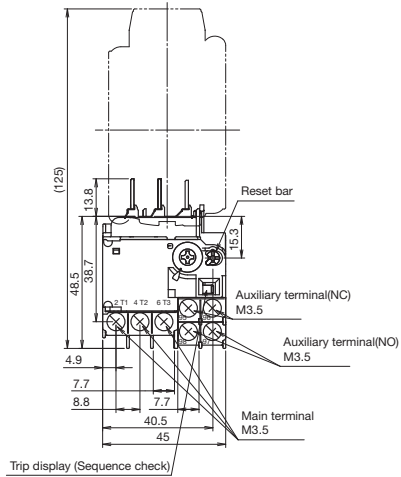
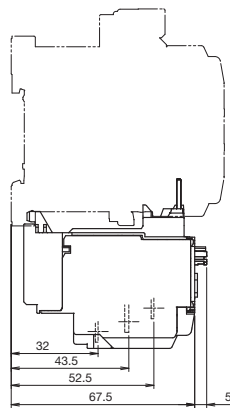
Weight : 1.01kg

Outline and wiring diagram

● Thermal overload relay

[Unit : mm]

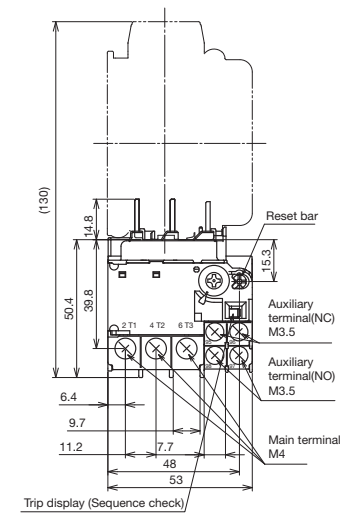
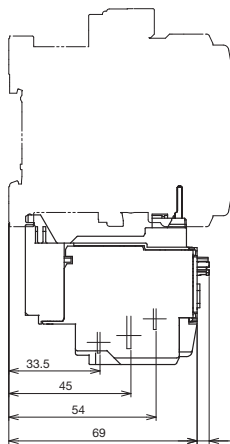
TR18X



No. of heater element	Contact arrangement																			
2-element	<table><tr><td>1/L1</td><td>3/L2</td><td>5/L3</td><td>(NO) 97</td><td>(NC) 95</td></tr><tr><td colspan="3"></td><td></td></tr><tr><td colspan="3"></td><td>98</td><td>96</td></tr><tr><td colspan="3"></td><td>(NO)</td><td>(NC)</td></tr></table>	1/L1	3/L2	5/L3	(NO) 97	(NC) 95								98	96				(NO)	(NC)
1/L1	3/L2	5/L3	(NO) 97	(NC) 95																
			98	96																
			(NO)	(NC)																
3-element	<table><tr><td>1/L1</td><td>3/L2</td><td>5/L3</td><td>(NO) 97</td><td>(NC) 95</td></tr><tr><td colspan="3"></td><td></td></tr><tr><td colspan="3"></td><td>98</td><td>96</td></tr><tr><td colspan="3"></td><td>(NO)</td><td>(NC)</td></tr></table>	1/L1	3/L2	5/L3	(NO) 97	(NC) 95								98	96				(NO)	(NC)
1/L1	3/L2	5/L3	(NO) 97	(NC) 95																
			98	96																
			(NO)	(NC)																

Weight : 0.1kg

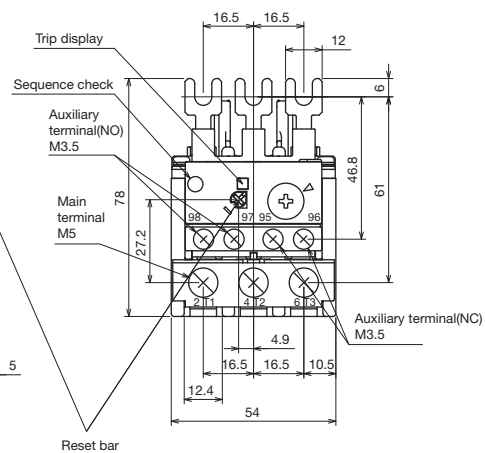
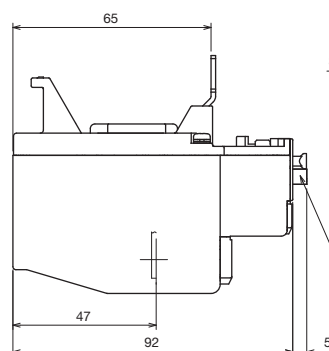
TR38X



No. of heater element	Contact arrangement
2-element	1/L1 3/L2 5/L3 2/T1 4/T2 6/T3 (NO) 97 (NC) 95 98 96 (NO) (NC)
3-element	1/L1 3/L2 5/L3 2/T1 4/T2 6/T3 (NO) 97 (NC) 95 98 96 (NO) (NC)

Weight : 0.13kg

TR65X Coming soon



No. of heater element	Contact arrangement															
2-element	<table><tr><td>1/L1</td><td>3/L2</td><td>5/L3</td><td>(NO) 97</td><td>(NC) 95</td></tr><tr><td colspan="3"></td><td>98</td><td>96</td></tr><tr><td></td><td></td><td></td><td>(NO)</td><td>(NC)</td></tr></table>	1/L1	3/L2	5/L3	(NO) 97	(NC) 95				98	96				(NO)	(NC)
1/L1	3/L2	5/L3	(NO) 97	(NC) 95												
			98	96												
			(NO)	(NC)												
3-element	<table><tr><td>1/L1</td><td>3/L2</td><td>5/L3</td><td>(NO) 97</td><td>(NC) 95</td></tr><tr><td colspan="3"></td><td>98</td><td>96</td></tr><tr><td></td><td></td><td></td><td>(NO)</td><td>(NC)</td></tr></table>	1/L1	3/L2	5/L3	(NO) 97	(NC) 95				98	96				(NO)	(NC)
1/L1	3/L2	5/L3	(NO) 97	(NC) 95												
			98	96												
			(NO)	(NC)												

Weight : 0.2kg

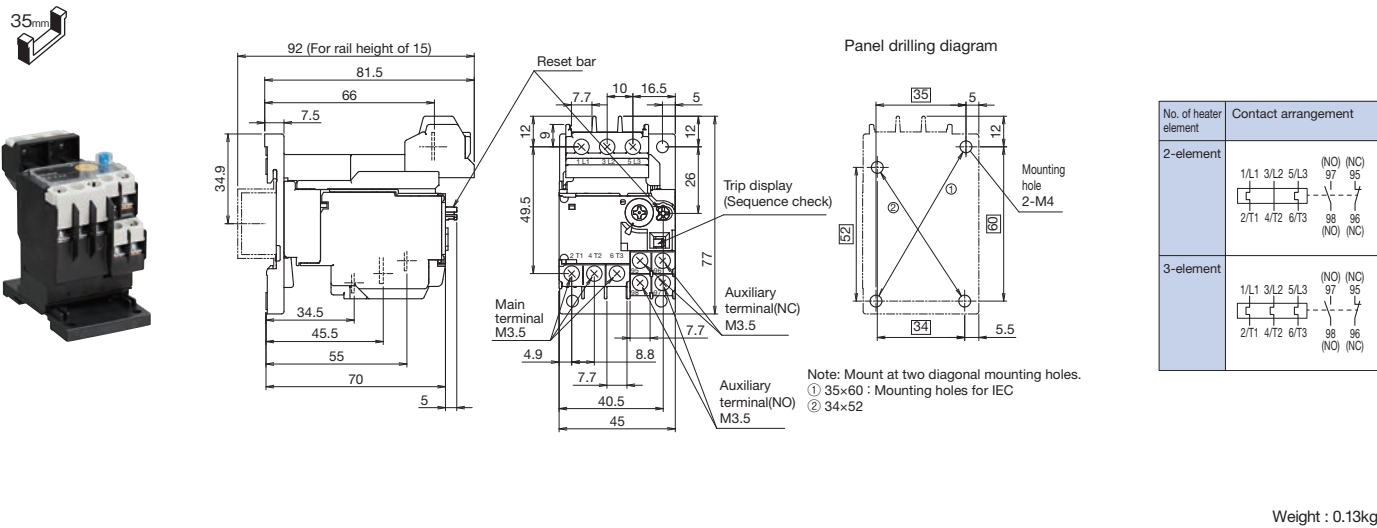
Product overview

Outline and wiring diagram

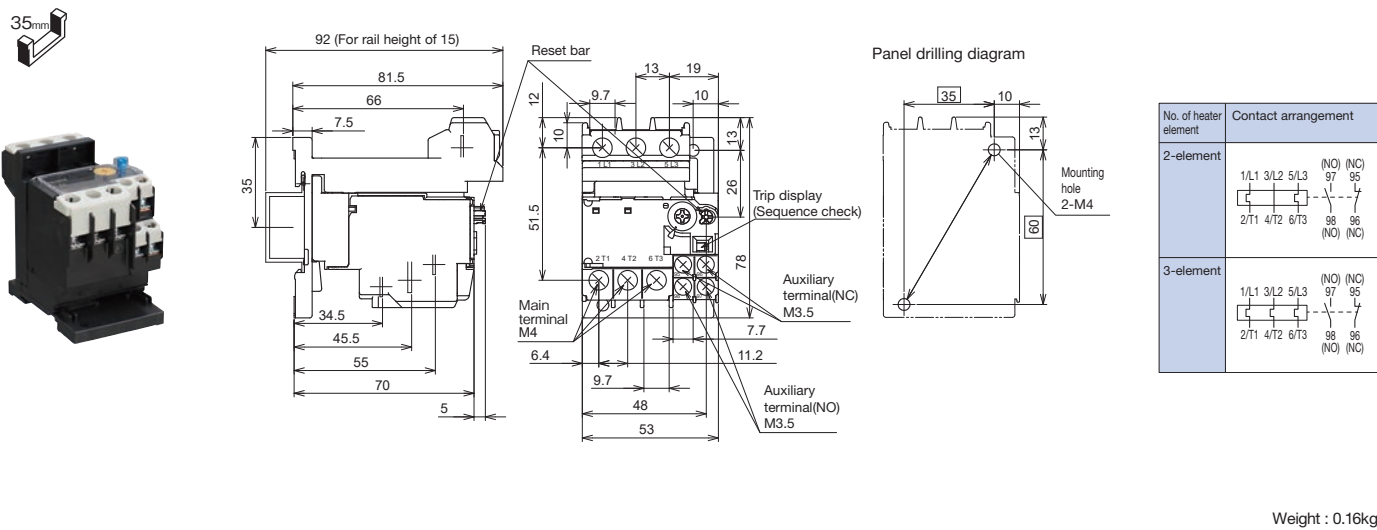
● Thermal overload relay for separate mounting

[Unit : mm]

TR18XH

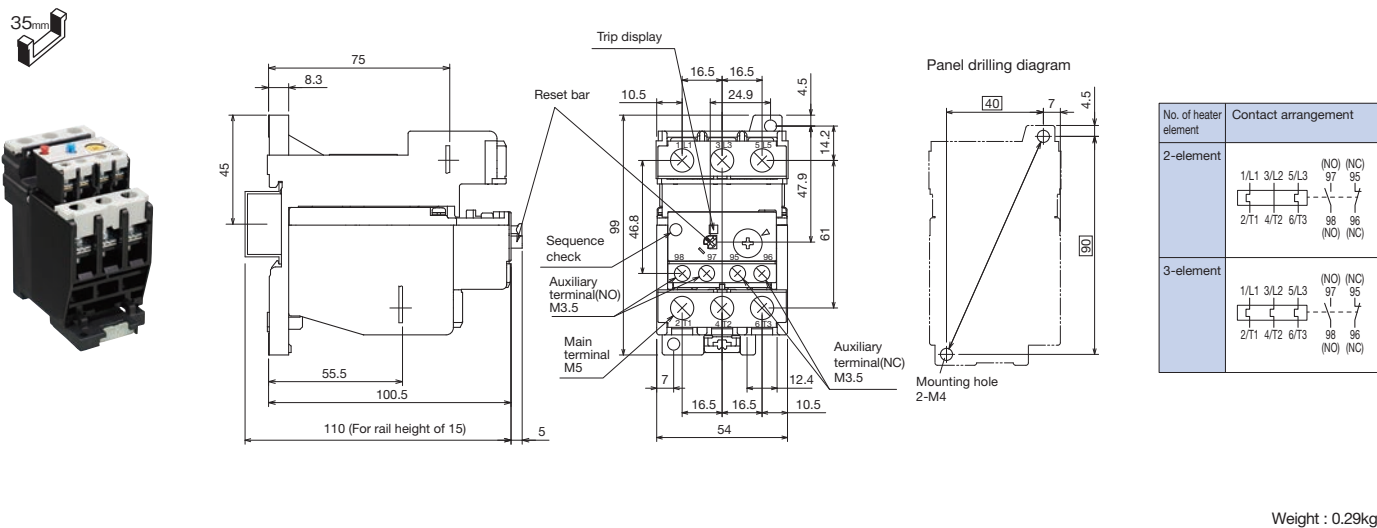


TR38XH



TR65XH

Coming soon



Auxiliary relay

● Ordering information (type)

● Ordering information (type)									
S	C	H	4	X	A	H	-	1	22
(1)	(2)	(3)	(4)	(5)					
(1) Series (2) Coil operation method (A: AC operated type, G: DC operated type, U: Extra pick-up operating coil type)									
(3) Auxiliary contact structure specification (No: Standard (Bifurcated contacts, H: High capacity auxiliary contact (with single contact))									
(4)Coil voltage designation code (see the code table on page 13) (5) Auxiliary contact configuration									

● Rating, type

Frame	Contact type	Rated operational current I _e [A]								Conventional free air thermal current (I _{th}) (Rated thermal current) [A]	Minimum voltage / current	Number of contact	Auxiliary contact arrangement	Coil operating method	Type②					
		AC-15 (Inductive load)		AC-12 (Resistive load)		DC-13① (Inductive load)		DC-12① (Resistive load)												
		200 to 240V	380 to 440V	200 to 240V	380 to 440V	24V	220V	24V	220V											
SCH4X	Standard (Bifurcated contacts)	3	1.5	8	5	3	0.27	5	1	10	DC 5V, 3mA	4	4NO [40]	AC operated type	SCH4XA-◆40					
											3NO1NC [31]		SCH4XA-◆31							
											2NO2NC [22]		SCH4XA-◆22							
	High capacity (single contact)	6	4	10	10	5	0.27	10	1		DC 24V, 10mA		4NO [40]		SCH4XAH-◆40					
											3NO1NC [31]		SCH4XAH-◆31							
											2NO2NC [22]		SCH4XAH-◆22							
	Standard (Bifurcated contacts)	3	1.5	8	5	3	0.27	5	1		10		DC 5V, 3mA	8 (with contact unit)	4NO [40]	DC operated type	SCH4XG-◆40			
													3NO1NC [31]		SCH4XG-◆31					
													2NO2NC [22]		SCH4XG-◆22					
	High capacity (single contact)	6	4	10	10	5	0.27	10	1				DC 24V, 10mA		4NO [40]		SCH4XGH-◆40			
													3NO1NC [31]		SCH4XGH-◆31					
													2NO2NC [22]		SCH4XGH-◆22					
	Standard (Bifurcated contacts)	3	1.5	8	5	3	0.27	5	1	10		DC 5V, 3mA	8 (with contact unit)		8NO [80]	AC operated type	SCH4XA-◆80			
												7NO1NC [71]			SCH4XA-◆71					
												6NO2NC [62]			SCH4XA-◆62					
	High capacity (single contact)	6	4	10	10	5	0.27	10	1			DC 24V, 10mA			5NO3NC [53]		SCH4XA-◆53			
												4NO4NC [44]			SCH4XA-◆44					
												8NO [80]			SCH4XAH-◆80					
	Standard (Bifurcated contacts)	3	1.5	8	5	3	0.27	5	1		10	DC 24V, 10mA		7NO1NC [71]	SCH4XAH-◆71					
												6NO2NC [62]		SCH4XAH-◆62						
												5NO3NC [53]		SCH4XAH-◆53						
	Standard (Bifurcated contacts)	3	1.5	8	5	3	0.27	5	1			10		DC 5V, 3mA	8 (with contact unit)	4NO4NC [44]	DC operated type	SCH4XAH-◆44		
														8NO [80]		SCH4XG-◆80				
														7NO1NC [71]		SCH4XG-◆71				
	High capacity (single contact)	6	4	10	10	5	0.27	10	1	DC 24V, 10mA				6NO2NC [62]		SCH4XG-◆62				
										5NO3NC [53]				SCH4XG-◆53						
										4NO4NC [44]				SCH4XG-◆44						
	Standard (Bifurcated contacts)	3	1.5	8	5	3	0.27	5	1	10				DC 5V, 3mA		8 (with contact unit)	8NO [80]	DC operated type	SCH4XG-◆80	
														7NO1NC [71]			SCH4XG-◆71			
														6NO2NC [62]			SCH4XG-◆62			
High capacity (single contact)	6	4	10	10	5	0.27	10	1	DC 24V, 10mA		5NO3NC [53]		SCH4XG-◆53							
									4NO4NC [44]		SCH4XG-◆44									
									8NO [80]		SCH4XGH-◆80									
Standard (Bifurcated contacts)	3	1.5	8	5	3	0.27	5	1	10		DC 24V, 10mA	8 (with contact unit)	7NO1NC [71]	DC operated type			SCH4XGH-◆71			
											6NO2NC [62]		SCH4XGH-◆62							
											5NO3NC [53]		SCH4XGH-◆53							
High capacity (single contact)	6	4	10	10	5	0.27	10	1			DC 5V, 3mA		4NO4NC [44]				SCH4XGH-◆44			
											8NO [80]		SCH4XGH-◆80							
											7NO1NC [71]		SCH4XGH-◆71							
Standard (Bifurcated contacts)	3	1.5	8	5	3	0.27	5	1		10	DC 24V, 10mA		8 (with contact unit)	6NO2NC [62]	DC operated type		SCH4XGH-◆62			
											5NO3NC [53]			SCH4XGH-◆53						
											4NO4NC [44]			SCH4XGH-◆44						
High capacity (single contact)	6	4	10	10	5	0.27	10	1			DC 5V, 3mA			8 (with contact unit)			8NO [80]	DC operated type	SCH4XGH-◆80	
											7NO1NC [71]						SCH4XGH-◆71			
											6NO2NC [62]						SCH4XGH-◆62			
Standard (Bifurcated contacts)	3	1.5	8	5	3	0.27	5	1	10		DC 24V, 10mA				8 (with contact unit)	5NO3NC [53]	DC operated type		SCH4XGH-◆53	
											4NO4NC [44]					SCH4XGH-◆44				
											8NO [80]					SCH4XGH-◆80				
High capacity (single contact)	6	4	10	10	5	0.27	10	1			DC 5V, 3mA					8 (with contact unit)		7NO1NC [71]	DC operated type	SCH4XGH-◆71
											6NO2NC [62]							SCH4XGH-◆62		
											5NO3NC [53]							SCH4XGH-◆53		
Standard (Bifurcated contacts)	3	1.5	8	5	3	0.27	5	1		10	DC 24V, 10mA	8 (with contact unit)					4NO4NC [44]	DC operated type		SCH4XGH-◆44
											8NO [80]						SCH4XGH-◆80			
											7NO1NC [71]						SCH4XGH-◆71			

① Time constant L/R=70ms

② ◆ corresponds to the coil voltage designation code (see the code table on page 13).

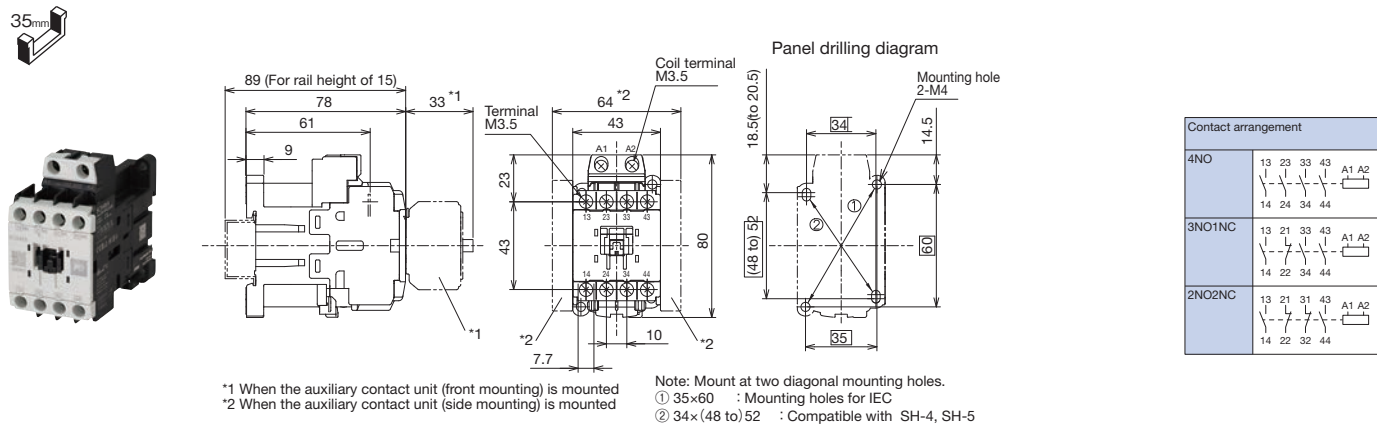
Product overview

Outline and wiring diagram

● DC operated type auxiliary relay

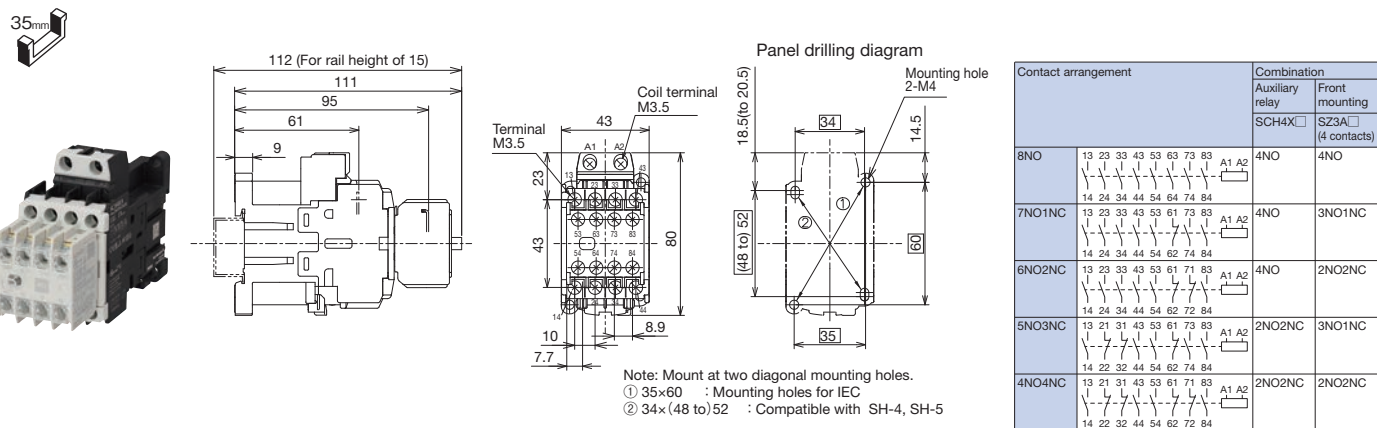
[Unit : mm]

SCH4XA (4 contacts)



Weight : 0.27kg

SCH4XA (8 contacts)



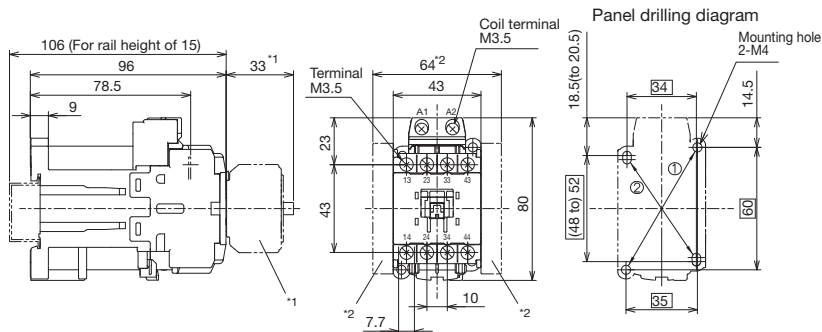
Weight : 0.32kg

Outline and wiring diagram

● DC operated type auxiliary relay

[Unit : mm]

SCH4XG (4 contacts)



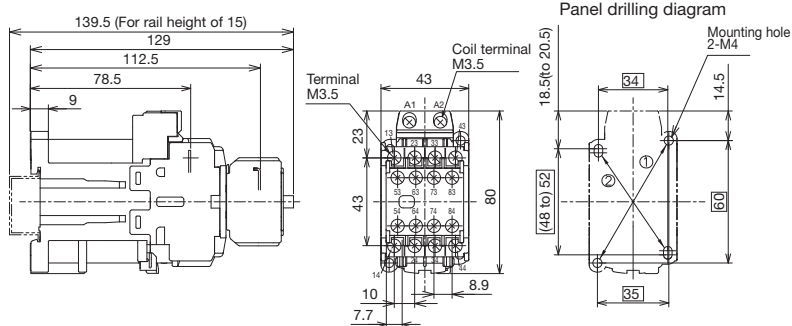
*1 When the auxiliary contact unit (front mounting) is mounted
*2 When the auxiliary contact unit (side mounting) is mounted

Note: Mount at two diagonal mounting holes.
① 35×60 : Mounting holes for IEC
② 34×(48 to 52) : Compatible with SH-4/G, SH-5/G

Contact arrangement	
4NO	
3NO1NC	
2NO2NC	

Weight : 0.35kg

SCH4XG (8 contacts)



Note: Mount at two diagonal mounting holes.
① 35×60 : Mounting holes for IEC
② 34×(48 to 52) : Compatible with SH-4/G, SH-5/G

Contact arrangement		Combination
		Auxiliary relay SCH4XG
		Front mounting SZ3A (4 contacts)
8NO		4NO
7NO1NC		4NO
6NO2NC		4NO
5NO3NC		2NO2NC
4NO4NC		2NO2NC

Weight : 0.4kg

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