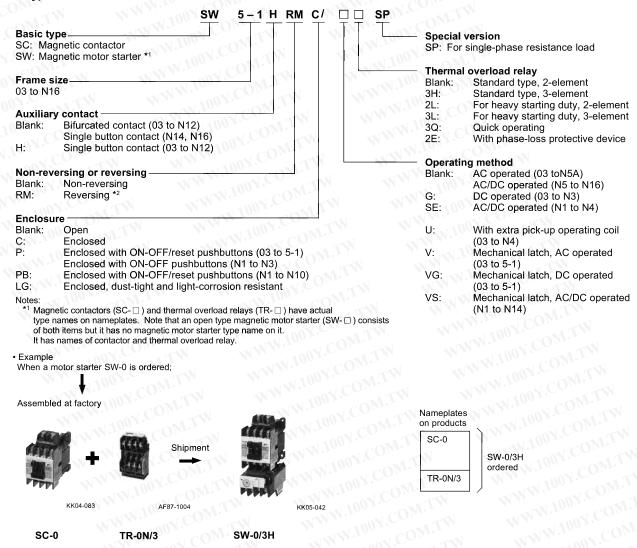
■ Types number nomenclature

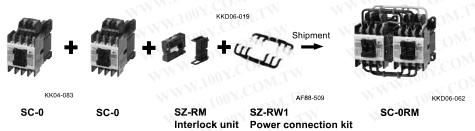


- *2 Open type reversing magnetic contactors (SC-□RM) and motor starters (SW-□RM) have no type name on their nameplates describing them as reversing types.
- Example

When a reversing contactor SC-0RM is ordered;



Assembled at factory



■ Ordering information

Specify the following:

- 1. Ordering code (see next page)
- 3. Operating coil voltage code4. Auxiliary contact arrangement code
- Overload relay setting range code
 Auxiliary confusion
 Auxili

Information subject to change without notice

Magnetic Contactors and Starters SC and SW series Ordering code system

■ Ordering code system

SC series magnetic contactors SC <u>25</u> B Α A - M12 34 (5) 6 7 9 10(1)

SW series magnetic motor starter D (13)

Product category

Description	Code
Contactor and starter	S

② Series category

Description	Code
SC and SW series	С

34 Frame size

Frame size	Code		
WWW.IO	3	4	
03 0 05 4-0 4-1 5-1	1 1 1 1 1 2	1 3 4 8 9	
N1 N2 N2S N3	2 3 5 6	5 5 0 5	
N4 N5 N6 N7	8 9 1 1	0 3 C F J	
N10 N11 N12 N14 N16*	2 3 4 6 8	C A A A	

^{*}Contactor only

⑤ Index

Index	Code
03 to 5-1 N1 to N16 N5A	Blank B C

Coil voltage

Frame size 03 to N5A AC coil

Code
E F WW
1 H K 2 M P
S 4 T 5

6 Version

© Version				
Description	Co	Code		
	Contactor	Starter		
Non-reversing, open Standard	N.COM. AV	А		
Non-reversing, enclosed Standard	COMC	C		
Dust-tight/light-corrosion resistant With on – off pushbutton	I_{00} , I_{00}	L P		
With on – off/reset pushbutton	100 Y. CON. TW	J		
Reversing, open Standard	N.100Y.CRN.TW	R		
Reversing, enclosed Standard Dust-tight/light-corrosion resistant	MAN TOOK COMMENTAL	M G		

7 Coil and contact specifications

Description		Code	
Standard	AC operating coil DC operating coil Both AC and DC operating coil With extra pick-up operating coil	A (Up to N5A) G (Up to N5) A (N5 and above) U (Up to N4)	
With super magnet	Both AC and DC operating coil	S (N1 to N4)	
Mechanical latch (Contactor only)	AC operating coil DC operating coil Both AC and DC operating coil	V (Up to 5-1) D (Up to 5-1) E (N1 and above)	
With single-button auxiliary contact	AC operating coil DC operating coil With extra pick-up operating coil	H (Up to N12) Q (Up to N12) L (Up to N12)	

® Type of thermal overload relay

Description	OX.	1111	Code
Standard	TR-□ TR-□/3	2-element 3-element	N N
Long time operating	TR-□L TR-□L3	2-element 3-element	1.100 LOW.
Quick operating	TR-□Q	3-element	SOM
Open-phase protection	TK-□	3-element	1100 E OM

• Frame size 03 to N5 DC coil

Operating coil voltage	Code
12V DC	В
24V DC	EN
48V DC	F
60V DC	G
100V DC	1
110V DC	j H
120V DC	K
200V DC	2 Y
210V DC	Y
220V DC	M

• Frame size N1/SE to N4/SE, N5 to N16 AC and DC coll form AC and DC coil (common)

Operating coil AC 50/60Hz	voltage DC	Code
24-25V	24V	EW.16
48-50V	48V	F
100-127V	100-120V	1
200-250V	200-240V	2
265-347V	_	3
380-450V	_	4
460-575V	_	5

10(11) Auxiliary contact

• SC-03 to 5-1

Contact arrangement	Co	Code		
	100	0		
1NO	1	0		
1NC	0	J 1100		
1NO+1NC	1	1.0		
2NO	2	0.00		
2NC	0	2		
2NO+2NC	2	2		

SC-N1 to N16

Contact arrangement	Code		
TW.Com TW	100	(1)	
2NO+2NC	2	2	
3NO+3NC	3	3	
4NO+4NC	4	4	

® No. of heater element and reset method

Description	Code		
Manual reset 2-element 3-element	Blank D		
Auto reset 2-element 3-element	A B		

■ Correct mounting

- (1) The standard mounting shown in Figure 1 is the proper mounting method. Following slanting mounting with front, behind, left and right direction is possible. (Figure 2) Allowable slant angle of SC (SW) 03 to N16: 30°
- (2) Side mounting can be necessary due to wiring or installation restriction. Side mounting is possible if you consider the followings, except for the types of SC-N14, 16 and mechanically latched type.
 - The performance of magnetic contactors is almost the same. Only mechanical durability and switching frequency may decrease.
 - The ultimate operational current of thermal overload relay may slightly changes.
- (3) Other mountings
 - Standard magnetic contactors and starters cannot be mounted on the ceiling. If they were mounted on the ceiling, they could not satisfy the operating performance value specified by Standards due to effect of moving section mass.
- Standard magnetic contactors and starters cannot be mounted horizontally. External vibration or shock may result in malfunction due to effect of moving section mass. Dedicated horizontal mounting models are available on request. Add suffix "Z109" to the type number when

1 Thermal overload relay ampere setting range

Ampere setting range (A)	Code	Ampere setting range (A)	Code	Ampere setting range (A)	Code
0.1 - 0.15	TA	4 - 6	TS	65 - 95	TM
0.13 - 0.2	TB	5 - 8	TT	85 - 105	TI
0.15 - 0.24	TC	6 - 9	TU	85 - 125	TN
0.2 - 0.3	TD	7 - 11	TV	110 - 160	TP
0.24 - 0.36	TE	9 - 13	TW	125 - 185	TR
0.3 - 0.45	TF	12 - 18	TX	160 - 240	TS
0.36 - 0.54	TG	16 - 22	TQ	200 - 300	TT
0.48 - 0.72	TH	18 - 26	TB	240 - 360	TU
0.64 - 0.96	TJ	24 - 36	TE	300 - 450	TV
0.8 - 1.2	TK	28 - 40	TF	400 - 600	TW
0.95 - 1.45 1.4 - 2.2 1.7 - 2.6 2.2 - 3.4 2.8 - 4.2	TL TM TN TP TR	32 - 42 34 - 50 45 - 65 48 - 68 53 - 80	TI TG TJ TO TL	M TM TM	

Ordering example

Magnetic motor starter

1	Magnetic starter S
2	SW series C
34	Frame size: 5-1
(5)	Index Blank
6	Non-reversing, open: Standard
7	Operating coil: AC operating A
8	Thermal overload relay: Standard N
9	Operating coil voltage: 220V-240V AC, 50Hz P
10(1)	Auxiliary contact: 1NO+1NC
12	Thermal overload relay heater range: 9-13 TW
(3)	No. of heater element: 3 D

Ordering code: SC20AAN-P11TWD

• N	lagnetic contactor		
1	Magnetic contactor		S
2	SC series		C
34	Frame size: N6		1C
(5)	Index		B
6	Non-reversing, open: Standard		A
7	Operating coil: DC operating		A
9	Operating coil voltage: 110V DC	MW.	1
(10(11)	Auxiliary contact: 2NO+2NC		22

Ordering code: SC1CBAA-122

ordering. However, the models of "Z109" specification cannot be applied to standard mounting (vertical mounting).

- (i) Dedicated horizontal mounting models have 80% of mechanical durability, electrical durability and switching frequency, compared with standard mounting models.
- (ii) For magnetic starters, the ultimate operational current of thermal overload relay slightly changes.
- (iii) The following models are available; type SC-03 to SC-5-1, type SW-03 to 5-1, type SH-4, 5, type SC-N1 to N10, type SW-N1 to N10, type SC-N1/G to N3/G, type SC-N1/SE to N4/SE, type SB-□N.
- (iv) Dedicated horizontal mounting models of type SC-03/G to SC-5-1/G, type SC-N11 to SC-N16, type SB-□NB are not available.



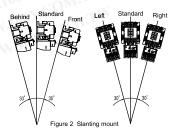


Figure 1 Standard mounting