

BW GLOBAL - TWIN Series

Feature

- Complies with major international standards and certifications. (IEC,JIS,CE,TUV,CCC)
- High performance and compact design breaker by FUJI's ingenious ablation breaking technology.
- Providing better user friendliness by the standardization of internal accessory parts. (32/50/63/100AF, 125/250AF, 400/630/800AF)
- Material description of major components, compliance with RoHS Directive, and lower environmental impact by Cadmium-free contact. (subject to some exceptions.)



MOLDED CASE CIRCUIT BREAKER <“Global Twin Series”>

FRAME (AF)	TYPE	INTERRUPTING CAPACITY (kA)		RATED CURRENT (AT)	Unit Price (THB) POLES		
		230VAC	400VAC		2P	3P	4P
32	BW32AAG-△P□	2.5	1.5	3, 5, 10, 15, 20, 30,32	930	1,340	-
	BW32SAG-△P□	5	2.5	3, 5, 10, 15, 20, 30,32	1,230	1,770	-
50	BW50AAG-△P□	2.5	1.5	5, 10, 15, 20, 30, 32, 40, 50	1,180	1,700	-
	BW50EAG-△P□	5	2.5	5, 10, 15, 20, 30, 32, 40, 50	1,360	1,950	-
	BW50SAG-△P□	10	7.5	5, 10, 15, 20, 30, 32, 40, 50	1,560	2,240	-
	BW50RAG-△P□	25	10	10, 15, 20, 30, 32, 40, 50	1,760	2,530	-
	BW50HAG-△P□	125	65	15, 20, 30, 40, 50	6,400	7,000	-
63	BW63EAG-△P□	5	2.5	60, 63	1,490	2,150	-
	BW63SAG-△P□	10	7.5	60, 63	1,720	2,470	-
	BW63RAG-△P□	25	15	60, 63	1,850	2,670	-
100	BW100AAG-△P□	5	1.5	60, 63, 75, 100	1,490	2,150	-
	BW100EAG-△P□	25	10	50, 60, 63, 75, 100	2,640	3,790	-
125	BW125JAG-△P□	50	30	15,20,30,40,50,60,75,100,125	3,440	4,940	6,440
	BW125SAG-△P□	85	36	15,20,30,40,50,60,75,100,125	4,020	5,740	7,580
	BW125RAG-△P□	100	50	15,20,30,40,50,60,75,100,125	6,320	8,730	11,490
	BW125HAG-△P□	125	65	15,20,30,40,50,60,75,100,125	8,000	11,060	-
160	BW160EAG-△P□	36	18	125, 150, 160	6,740	7,870	-
	BW160JAG-△P□	50	30	125, 150, 160	7,490	10,070	13,830
	BW160SAG-△P□	85	36	125, 150, 160	7,930	10,570	13,790
	BW160RAG-△P□	100	50	125, 150, 160	8,040	11,490	14,930
250	BW250EAG-△P□	36	18	175, 200, 225, 250	7,080	8,270	-
	BW250JAG-△P□	50	30	175, 200, 225, 250	7,860	10,650	13,330
	BW250SAG-△P□	85	36	175, 200, 225, 250	8,100	11,340	14,360
	BW250RAG-△P□	100	50	175, 200, 225, 250	9,190	13,210	16,660
	BW250HAG-△P□	125	65	125,150, 160, 175, 200, 225, 250	10,150	13,870	-
400	BW400EAG-△P□	50	30	250, 300, 350, 400	11,510	16,450	-
	BW400SAG-△P□	85	36	250, 300, 350, 400	12,410	17,130	-
	BW400RAG-△P□	100	50	250, 300, 350, 400	15,360	18,090	24,340
	BW400HAG-△P□	125	70	250, 300, 350, 400	17,550	21,930	29,610
630	BW630EAG-△P□	50	36	500, 600, 630	x	26,420	-
	BW630RAG-△P□	100	50	500, 600, 630	x	28,250	37,190
	BW630HAG-△P□	125	70	500, 600, 630	x	43,870	59,750
800	BW800EAG-△P□	50	36	700, 800	x	43,660	-
	BW800RAG-△P□	100	50	700, 800	x	47,100	66,300
	BW800HAG-△P□	125	70	700, 800	x	61,420	82,910

NOTE : △ = Poles (2P, 3P, 4P) □ = Rated Current (AT)

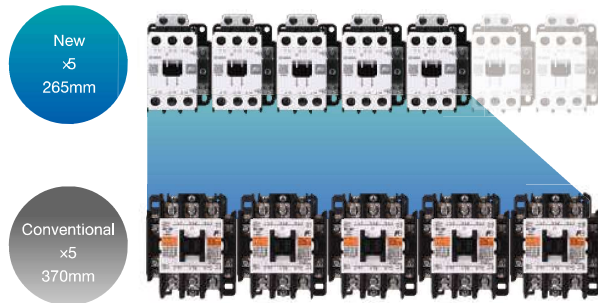
- Prices are not included VAT
- Prices are subjected to change without notice

SC-NEXT



SC-NEXT FEATURES

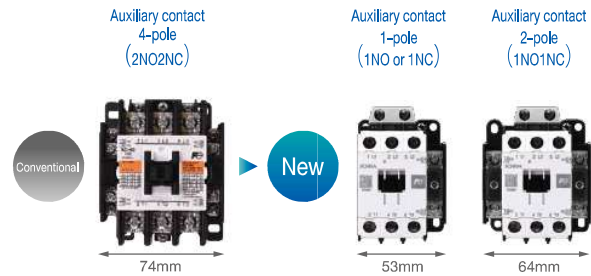
Contributes to downsizing by up to **28%**
depending on the model selected.



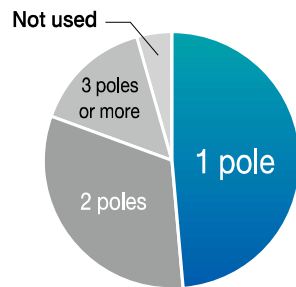
*Comparison of SC-N2 type (35 A) and SC38XA (38 A)

Selectable number of auxiliary contacts

up to 4 poles*

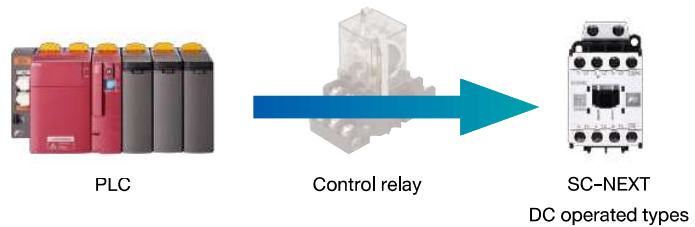


*Up to 4 poles can be selected by adding separately-sold auxiliary contact blocks



Percentage of auxiliary contact used
Nearly half of customers use only one pole (according to our research)

Enables direct driving up to **38A**



SC-NEXT FEATURES

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

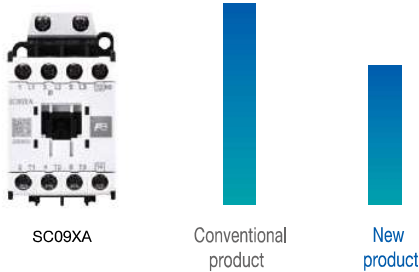


*Front direction

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

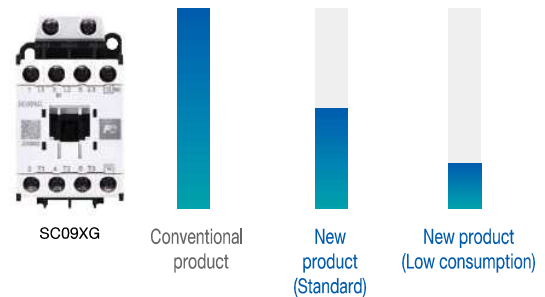


AC operated type: Power consumption



power consumption
Up to **25%** reduction

DC operated type: Power consumption

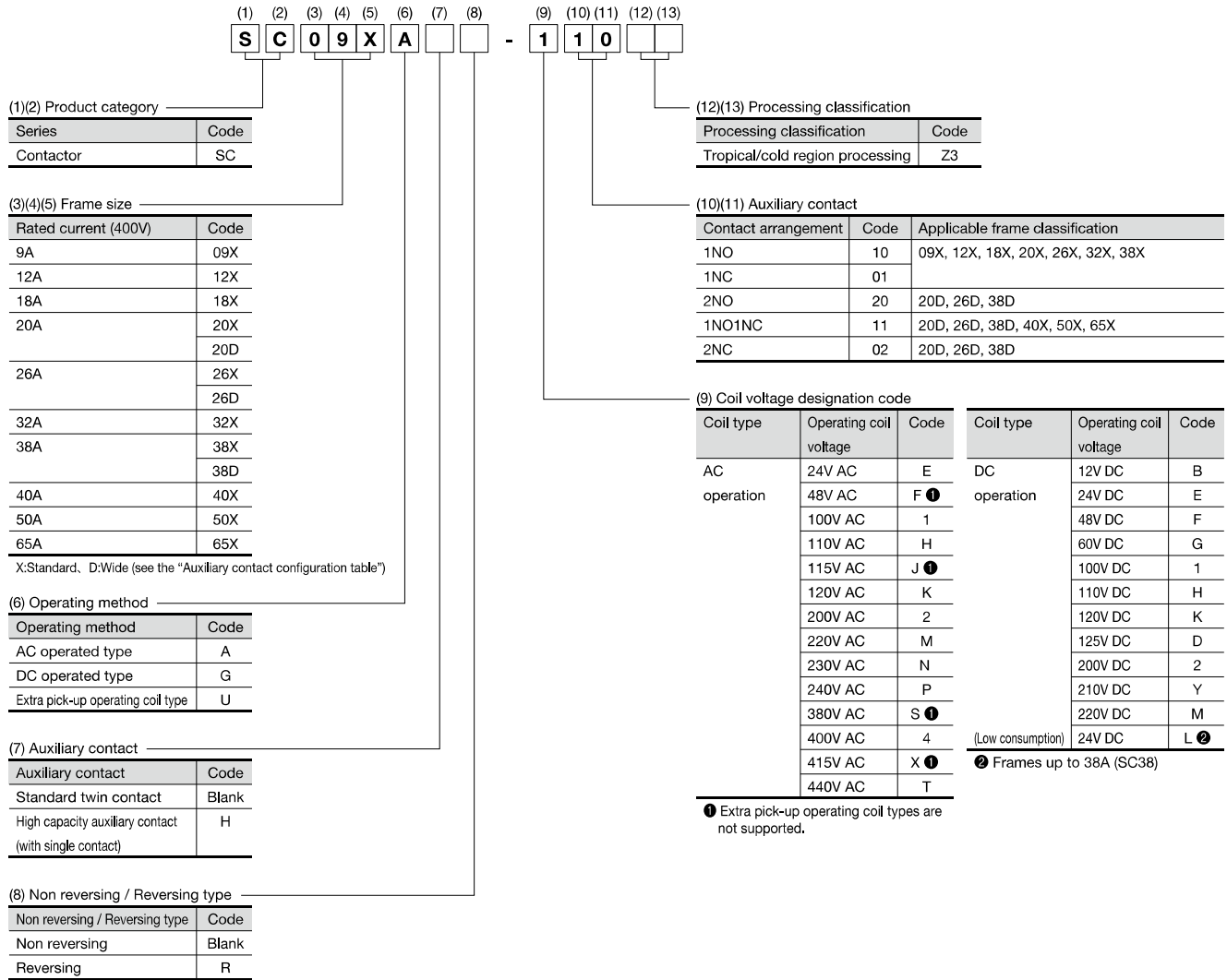


power consumption
Up to **73%** reduction

Type Number Nomenclature

Type Number Nomenclature (Type Number = Product Code)

- Magnetic Contactor



Note: Products cannot be manufactured for all possible type numbers.

Type Number Nomenclature

• Magnetic Starters

(1) (2) (3) (4) (5) (6) (7) (8) (9) - (10) (11) (12) (13) (14) (15) (16) (17) (18) (19)

S W 0 9 X A - **1 1 0 T 1 P 4**

(1)(2) Product category

Series	Code
Starters	SW

(3)(4)(5) Frame size

Rated current (400V)	Code
9A	09X
12A	12X
18A	18X
20A	20X
	20D
26A	26X
	26D
38A	38X
	38D
40A	40X
50A	50X
65A	65X

X:Standard, D:Wide (see the "Auxiliary contact configuration table")
32A frames are not supplied with magnetic starters.

(6) Operating method

Operating method	Code
AC operated type	A
DC operated type	G
Extra pick-up operating coil type	U

(7) Auxiliary contact

Auxiliary contact	Code
Standard twin contact	Blank
High capacity auxiliary contact (with single contact)	H

(8) Non reversing / Reversing type

Non reversing / Reversing type	Code
Non reversing	Blank
Reversing	R

(9) Thermal overload relay

Number of heater elements	Code
3-element	3
2E with open phase detection function	K

(10) Coil voltage designation code

Coil type	Operating coil voltage	Code	Coil type	Operating coil voltage	Code
AC operation	24V AC	E	DC operation	12V DC	B
	48V AC	F ❶		24V DC	E
	100V AC	1		48V DC	F
	110V AC	H		60V DC	G
	115V AC	J ❶		100V DC	1
	120V AC	K		110V DC	H
	200V AC	2		120V DC	K
	220V AC	M		125V DC	D
	230V AC	N		200V DC	2
	240V AC	P		210V DC	Y
	380V AC	S ❶		220V DC	M
	400V AC	4		24V DC	L ❷
415V AC	X ❶				
440V AC	T				

❶ Extra pick-up operating coil types are not supported.
❷ Frames up to 38A (SC38)

(14)(15)(16) Heater element rating

Heater element rating (A)	Code	SW09X	SW12X	SW18X	SW20X(D)	SW26X(D)	SW38X(D)	SW40X	SW50X	SW65X
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	○	○	○	○	○	○			
5-7.5	005	○	○	○	○	○	○			
5-8	005							○		
6-9	006	○	○	○	○	○	○			
7-10.5	007	○	○	○	○	○	○			
7-11	007							○	○	○
9-13	009	○	○	○	○	○	○	○	○	○
12-18	012				○	○	○	○	○	○
13-16.5	013									
15-18	015			○						
18-24	018				○	○	○			
18-26	018							○	○	○
20-26	020					○	○			
24-36	024							○	○	○
26-32	026							○		
32-38	032						○			
32-42	032							○	○	○
36-46	036								○	○
44-54	044								○	○
53-65	053									○

(13) Wiring specification with case cover

Wiring specification with case cover	Code
Not applicable (no case cover)	T

(11)(12) Auxiliary contact

Contact arrangement	Code	Applicable frame classification
1NO	10	09X, 12X, 18X, 20X, 26X, 32X, 38X
1NC	01	
2NO	20	20D, 26D, 38D
1NO1NC	11	20D, 26D, 38D, 40X, 50X, 65X
2NC	02	20D, 26D, 38D

(18)(19) Processing classification

Processing classification	Code
Tropical/cold region processing	Z3

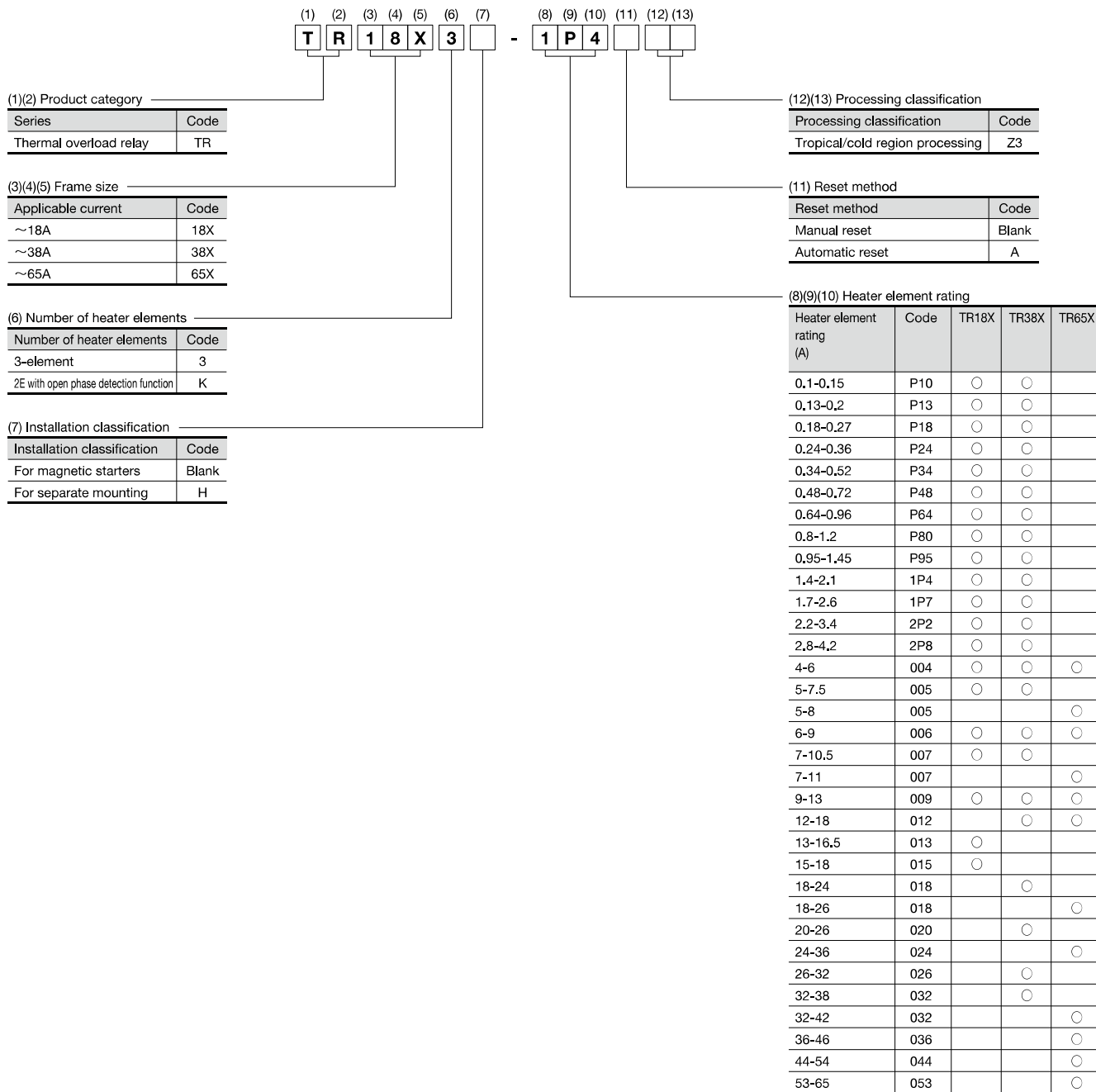
(17) Reset method

Reset method	Code
Manual reset	Blank
Automatic reset	A

Note: Products cannot be manufactured for all possible type numbers.

Type Number Nomenclature

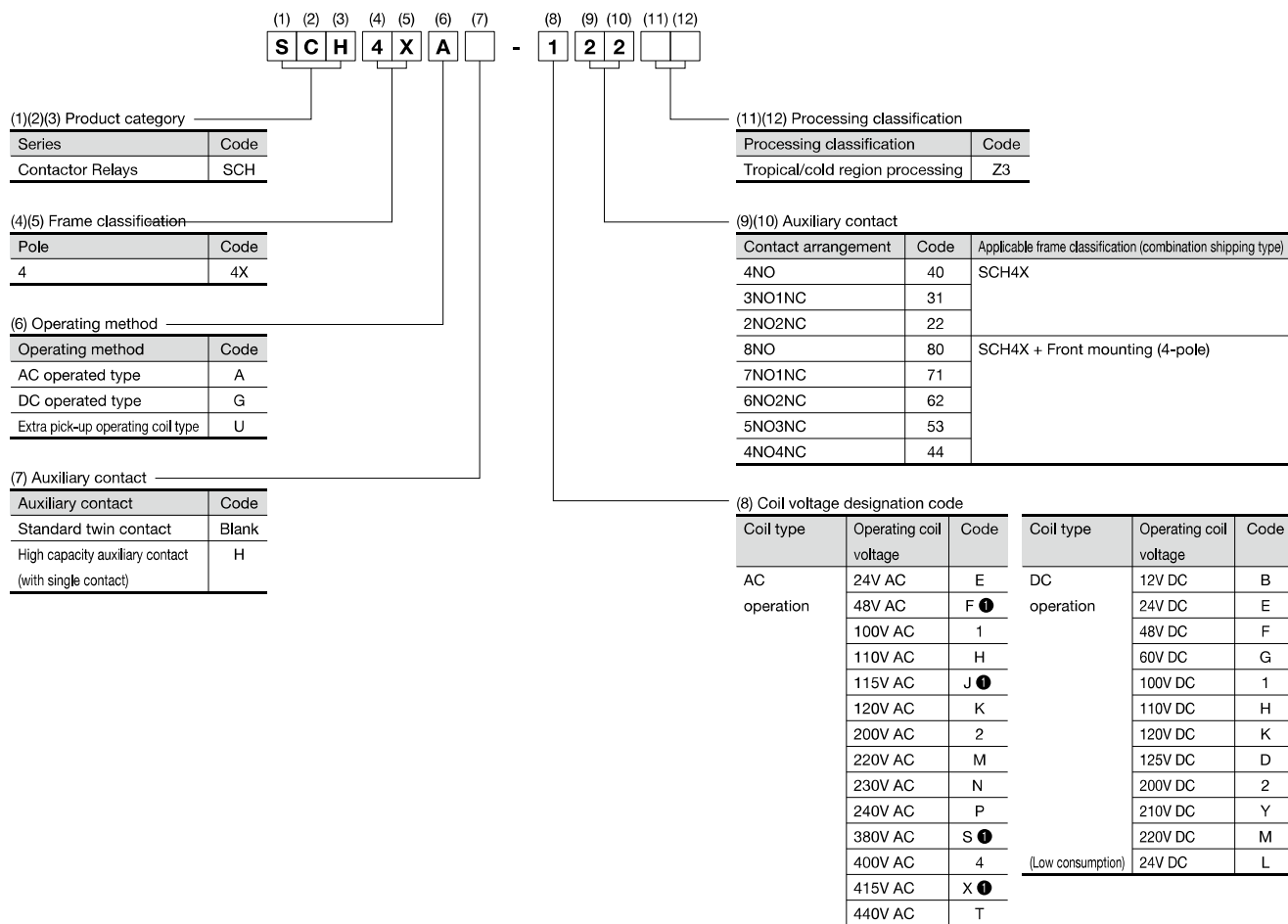
- Thermal overload relay



Note: Products cannot be manufactured for all possible type numbers.

Type Number Nomenclature

- Contactor Relays



Note: Products cannot be manufactured for all possible type numbers.

❶ Extra pick-up operating coil types are not supported.

Price List

- Magnetic Starters



SW Model	Max motor capacity, AC-3 (kW), IEC60947-4-1		Combination between magnetic and thermal overload	Auxiliary contact		*Coil Voltage					Unit Price (THB)
	200-240V	380-440V		NO	NC	24V	48V	120V	240V	400V	
SW09XA3	2.5	4	SC09XA + TR18X●	1	-	x	x	x	x	x	1,380
SW12XA3	3.5	5.5	SC12XA + TR18X●	1	-	x	x	x	x	x	1,620
SW12XA3 + Aux. contact	3.5	5.5	SC12XA + TR18X●	2	1	x	x	x	x	x	1,890
SW18XA3	4	7.5	SC18XA + TR18X●	1	-	x	x	x	x	x	1,920
SW20XA3	5	10	SC20XA + TR38X●	1	-	x	x	x	x	x	2,030
SW20DA3	5	10	SC20DA + TR38X●	1	1	x	x	x	x	x	2,420
SW26XA3	5.5	11	SC26XA + TR38X●	1	-	x	x	x	x	x	3,090
SW26DA3	5.5	11	SC26DA + TR38X●	2	2	x	x	x	x	x	3,400
SW38XA3	11	18.5	SC38XA + TR38X●	1	-	x	x	x	x	x	3,680
SW38DA3	11	18.5	SC38DA + TR38X●	2	2	x	x	x	x	x	3,980
SW40XA3	11	18.5	SC40XA + TR65X●	2	2	x	x	x	x	x	4,600
SW50XA3	15	22	SC50XA + TR65X●	2	2	x	x	x	x	x	5,180
SW65XA3	18.5	30	SC65XA + TR65X●	2	2	x	x	x	x	x	5,980

NOTE : * X : Coil operating voltage AC

O : Coil operating voltage both AC or DC

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Price List

- Magnetic Contactor



SC-Next model	Max motor capacity, AC-3, IEC60947-4-1		Rated operational AC-3, IEC60947-4-1		Auxiliary contact		Coil voltage					Unit Price (THB)
	Kilowatt (kW)		Current (A)		Contact		24V	48V	120V	240V	400V	
	200-240V	380-440V	200-240V	380-440V	NO	NC						
SC09XA	2.5	4	11	9	1	-	x	x	x	x	x	750
SC12XA	3.5	5.5	13	12	1	-	x	x	x	x	x	830
SC12XA + Aux. contact	3.5	5.5	13	12	2	1	x	x	x	x	x	1,070
SC18XA	4	7.5	18	18	1	-	x	x	x	x	x	1,230
SC20XA	5	10	20	20	1	-	x	x	x	x	x	1,430
SC20DA	5	10	20	20	1	1	x	x	x	x	x	1,500
SC26XA	5.5	11	26	26	1	-	x	x	x	x	x	2,100
SC26DA	5.5	11	26	26	2	2	x	x	x	x	x	2,170
SC32XA	7.5	15	32	32	2	2	x	x	x	x	x	2,600
SC38XA	11	18.5	38	38	1	-	x	x	x	x	x	2,720
SC38DA	11	18.5	38	38	2	2	x	x	x	x	x	2,950
SC40XA	11	18.5	40	40	2	2	x	x	x	x	x	3,020
SC50XA	15	22	50	50	2	2	x	x	x	x	x	3,620
SC65XA	18.5	30	65	65	2	2	x	x	x	x	x	4,420

NOTE : * X : Coil operating voltage AC

O : Coil operating voltage both AC or DC

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Price List

- Thermal Overload Relay



TR Model	Used with SC type	Heater element rating (A)	Unit Price (THB)
TR18X3	SC09XA / SC12XA	*0.1-0.15 / *0.13-0.2 / *0.18-0.27 / 0.24-0.36 / 0.34-0.52 / 0.48-0.72 / 0.64-0.96 / 0.8-1.2 / 0.95-1.45 / 1.4-2.1 / 1.7-2.6 / 2.2-3.4 / 2.8-4.2 / 4-6 / 5-7.5 / 6-9 / 7-10.5 / 9-13	980
	SC18XA	*0.1-0.15 / *0.13-0.2 / *0.18-0.27 / 0.24-0.36 / 0.34-0.52 / 0.48-0.72 / 0.64-0.96 / 0.8-1.2 / 0.95-1.45 / 1.4-2.1 / 1.7-2.6 / 2.2-3.4 / 2.8-4.2 / 4-6 / 5-7.5 / 6-9 / 7-10.5 / 9-13 / 13-16.5 / 15-18	
TR38X3	SC20X(D)A	*0.1-0.15 / *0.13-0.2 / *0.18-0.27 / 0.24-0.36 / 0.34-0.52 / 0.48-0.72 / 0.64-0.96 / 0.8-1.2 / 0.95-1.45 / 1.4-2.1 / 1.7-2.6 / 2.2-3.4 / 2.8-4.2 / 4-6 / 5-7.5 / 6-9 / 7-10.5 / 9-13 / 12-18 / 18-24	1,020
	SC26X(D)A	4-6 / 5-7.5 / 6-9 / 7-10.5 / 9-13 / 12-18 / 18-24 / 20-26	
	SC38X(D)A	4-6 / 5-7.5 / 6-9 / 7-10.5 / 9-13 / 12-18 / 18-24 / 20-26 / 26-32 / 32-38	
TR65X3	SC40XA	4-6 / 5-8 / 6-9 / 7-11 / 9-13 / 12-18 / 18-26 / 24-36 / 32-42	1,560
	SC50XA	7-11 / 9-13 / 12-18 / 18-26 / 24-36 / 32-42 / 36-46 / 44-54	
	SC65XA	7-11 / 9-13 / 12-18 / 18-26 / 24-36 / 32-42 / 36-46 / 44-54 / 53-65	

Remark: *Separate order only, combination starter (SC+TR) is not available for factory mounting for small rated current.

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Price List

- Industrial Relay



Industrial Relay Model	Related Thermal Current (A)	Contact Arrangement		Coil Voltage		Unit Price (THB)
		NO	NC	220V	380V	
SCH4XA/4	10	2	2	X	X	950
SCH4XA/8	10	4	4	X	X	1,390
SCH4XA/6	10	4	2	X	X	1,210

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- Prices are subjected to change without notice

SW Series

Magnetic Contactors and Overload Relay

Feature

- Can be controlled remotely instead of manual switch.
- Safety in control and maintenance.
- Accuracy
- Motor protection in case lack of phase



SW Model	Max motor Capacity (kW)		Combination Between	Aux. Con.		*Coil Voltage					Unit Price (THB)
	200-220V	380-440V		NO	NC	24V	48V	120V	240V	400V	
SW-03/3H	2.5	4	SC-03 + TR- ON/3	1	-	x	x	x	x	x	1,390
SW-0/3H	3.5	5.5	SC-0 + TR - ON/3	1	-	x	x	x	x	x	1,620
SW-05/3H	3.5	5.5	SC-05 + TR - ON/3	1	1	x	x	x	x	x	1,850
SW-4-0/3H	4.5	7.5	SC-4-0 + TR -5-1N/3	1	-	x	x	x	x	x	2,250
SW-4-1/3H	5.5	11	SC-4-1 + TR -5-1N/3	1	-	x	x	x	x	x	2,450
SW-5-1/3H	5.5	11	SC-5-1 + TR -5-1N/3	1	1	x	x	x	x	x	2,420
SW-N1/3H	7.5	15	SC-N1 + TR- N2/3	2	2	x	x	x	x	x	3,400
SW-N2/3H	11	18.5	SC-N2 + TR- N2/3	2	2	x	x	x	x	x	3,980
SW-N2S/3H	15	22	SC-N2S + TR- N3/3	2	2	x	x	x	x	x	5,180
SW-N3/3H	18.5	30	SC-N3 + TR- N3/3	2	2	x	x	x	x	x	5,980
SW-N4/3H	22	40	SC-N4 + TR- N5/3	2	2	x	x	x	x	x	8,830
SW-N5A/3H	30	55	SC-N5A + TR- N5/3	2	2	x	x	x	x	x	10,380
SW-N6/3H	37	60	SC-N6 + TR- N6/3	2	2	o	o	o	o	x	13,670
SW-N7/3H	45	75	SC-N7 + TR- N7/3	2	2	o	o	o	o	x	19,520
SW-N8/3H	55	90	SC-N8 + TR- N8/3	2	2	o	o	o	o	x	22,060
SW-N10/3H	65	110	SC-N10 + TR- N10/3	2	2	o	o	o	o	x	31,780
SW-N11/3H	90	160	SC-N11 + TR- N2/3	2	2	o	o	o	o	x	42,280
SW-N12/3H	120	220	SC-N12 + TR- N12/3	2	2	o	o	o	o	x	57,170
SW-N14/3H	180	315	SC-N14 + TR- N14/3	2	2	o	o	o	o	x	108,780

NOTE : * X : Coil operating voltage AC

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SC Series

Magnetic Contractor 3 phase



Feature

- Electrical life: 2,000,000 operations (SC-N3 or smaller)
- Bifurcated auxiliary contacts for greater reliability
- Compliance with international standards (UL, CSA, IEC, LR, BV, etc)
- Easier to use (structured to enable easy coil replacement)
- High operating reliability due to a super magnet with built-in IC (SC-N6 or larger)
(Prevents coil burning due to voltage fluctuations and contact fusing due to floppy operation; enables using the same coils for AC/DC, increase the range, reduces switching noise, etc)
- Mirror contacts are a standard feature
- A wide range of options

SC Model	AC3, IE947-4-1		Rated Operational		Auxilliary		*Coil Voltage					Unit Price (THB)
			Current (A)		Contact							
	200-220V	380-440V	200-220V	380-440V	NO	NC	24V	48V	120V	240V	400V	
SC-03	2.5	4	11	9	1	-	x	x	x	x	x	750
SC-0	3.5	5.5	13	12	1	-	x	x	x	x	x	830
SC-05	3.5	5.5	13	12	1	1	x	x	x	x	x	1,030
SC-4-0	4.5	7.5	18	16	1	-	x	x	x	x	x	1,230
SC-4-1	5.5	11	22	22	1	-	x	x	x	x	x	1,430
SC-5-1	5.5	11	22	22	1	1	x	x	x	x	x	1,500
SC-N1	7.5	15	32	32	2	2	x	x	x	x	x	2,170
SC-N2	11	18.5	40	40	2	2	x	x	x	x	x	2,950
SC-N2S	15	22	50	50	2	2	x	x	x	x	x	3,620
SC-N3	18.5	30	65	65	2	2	x	x	x	x	x	4,420
SC-N4	22	40	80	80	2	2	x	x	x	x	x	6,300
SC-N5A	30	55	105	105	2	2	x	x	x	x	x	6,620
SC-N6	37	60	125	125	2	2	o	o	o	o	x	9,790
SC-N7	45	75	150	150	2	2	o	o	o	o	x	14,080
SC-N8	55	90	180	180	2	2	o	o	o	o	x	16,220
SC-N10	65	110	220	220	2	2	o	o	o	o	x	21,850
SC-N11	90	160	300	300	2	2	o	o	o	o	x	29,070
SC-N12	120	220	400	400	2	2	o	o	o	o	x	43,160
SC-N14	180	315	600	600	2	2	o	o	o	o	x	91,410
SC-N16	220	400	800	800	2	2	o	o	o	o	x	132,700

NOTE : * X : Coil operating voltage AC

O : Coil operating voltage both AC or DC

- Prices are not included VAT

- Prices are subjected to change without notice

TR Series

Thermal Overload Relay 3 element



Feature

- There is STOP-TEST button to test yourself
- Manual/Auto reset
- Contact with 1NO+1NC

TR Model	Used with SC type	Thermal overload Setting range (A)	Unit Price (THB)
TR-0N/3	SC-03	0.1-0.15/0.15-0.24/0.24-0.36/0.36-0.54/0.48-0.72 /0.64-0.96/0.8-1.2/0.95-1.45/1.4-2.2/1.7-2.6 /2.2-3.4/2.8-4.2/4-6/5-8/6-9/7-11	980
	SC-0/SC-05	0.1-0.15/0.15-0.24/0.24-0.36/0.36-0.54/0.48-0.72 /0.64-0.96/0.8-1.2/0.95-1.45/1.4-2.2/1.7-2.6 /2.2-3.4/2.8-4.2/4-6/5-8/6-9/7-11/9-13	
TR-5-1N/3	SC-4-0	0.1-0.15/0.15-0.24/0.24-0.36/0.36-0.54/0.48-0.72	1,020
	SC-4-1	/0.64-0.96/0.8-1.2/0.95-1.45/1.4-2.2/1.7-2.6	
	SC-5-1	/2.2-3.4/2.8-4.2/4-6/5-8/6-9/7-11/9-13/12-18/16-22	
TR-N2/3	SC-N1	4-6/5-8/6-9/7-11/9-13/12-18/18-26/24-36	1,230
	SC-N2	4-6/5-8/6-9/7-11/9-13/12-18/18-26/24-36/32-42	
TR-N3/3	SC-N2S	7-11/9-13/12-18/18-26/24-36/28-40/34-50/45-65	1,560
	SC-N3	7-11/9-13/12-18/18-26/24-36/28-40/34-50/45-65/48-68	
TR-N5/3	SC-N4	18-26/24-36/28-40/34-50/45-65/53-80	3,760
	SC-N5A	18-26/24-36/28-40/34-50/45-65/53-80/65-95/85-105	
TR-N6/3	SC-N6	45-65/53-80/65-95/85-125	3,880
TR-N7/3	SC-N7	45-65/53-80/65-95/85-125/110-160	5,440
TR-N8/3	SC-N8	65-95/85-125/110-160/125-185	5,850
TR-N10/3	SC-N10	85-125/110-160/125-185/160-240	9,930
TR-N12/3	SC-N11	110-160/125-185/160-240/200-300	14,010
	SC-N12	160-240/200-300/240-360/300-450	
TR-N14/3	SC-N14	240-360/300-450/400-600	17,360

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