

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
 Http://www.100y.com.tw

Industrial Relays SH series General information

Bifurcated contacts with excellent electrical conductivity/SH-4, SH-5

■ Description

SH series industrial relays are designed to increase contact reliability and make them easy to use. The relays' highly reliable, bifurcated contacts allow them to be used in low-level circuits of 5V, 3mA. Various optional function units such as auxiliary contact blocks, coil surge suppression units can be added to the relays, allowing fast and field modification.



■ Types and ratings

Type	SH-4			SH-5		
Pole (No.of contacts)	4			8		
Contact arrangement	4NO, 3NO+1NC, 2NO+2NC			8NO, 7NO+1NC, 6NO+2NC 5NO+3NC, 4NO+4NC		
Thermal current (A)	10			10		
Rated operational current (A)	Volts	AC-15 (ind.)	AC-12 (res.)	Volts	DC-13 (ind.)	DC-12 (res.)
	110V AC	6	10	24V DC	3	5
	220V AC	3	8	48V DC	1.5	3
	440V AC	1.5	5	110V DC	0.55	2.5
	550V AC	1.2	5	220V DC	0.27	1
Standard operating coil voltage	100V 50Hz/100-110V 60Hz, 200V 50Hz/200-220V 60Hz, 380V-400V 50Hz/400-440V 60Hz					
Mechanical durability	10 million operations					
Electrical durability (AC-15)	500,000 operations (at operational current)					
Operating cycles per hour	1,800					
Ambient temperature	-5 to +50°C					

■ Ordering code system

S H 04 A A-1 22

① ② ③④ ⑤ ⑥ ⑦ ⑧⑨

① Product category

Description	Code
Industrial relay	S

② Series category

Description	Code
SH series	H

③④ Frame size

Frame size	Code	
	③	④
SH-4	0	4
SH-5	0	5

⑤ Version

Description	Code
Standard	A

⑥ Coil/contact specification

Description	Code
Standard	
AC operated	A
DC operated	G
With extra pick-up coil	U
Mechanical latch	
AC operated	V
DC operated	D
With single-button contact	H

⑦ Coil voltage

Coil voltage	Code
24V 50Hz/24-26V 60Hz	E
48V 50Hz/48-52V 60Hz	F
100V 50Hz/100-110V 60Hz	1
100-110V 50Hz/110-120V 60Hz	H
110-120V 50Hz/120-130V 60Hz	K
200V 50Hz/200-220V 60Hz	2
200-220V 50Hz/220-240V 60Hz	M
220-240V 50Hz/240-260V 60Hz	P
346-380V 50Hz/380-420V 60Hz	S
380-400V 50Hz/400-440V 60Hz	4
415-440V 50Hz/440-480V 60Hz	T
480-500V 50Hz/500-550V 60Hz	5
24V DC	E
48V DC	F
100V DC	1
110V DC	H
200V DC	2
220V DC	M

⑧⑨ Contact arrangement

Contact arrangement	Code	
	⑧	⑨
4NO	4	0
3NO+1NC	3	1
2NO+2NC	2	2
8NO	8	0
7NO+1NC	7	1
6NO+2NC	6	2
5NO+3NC	5	3
4NO+4NC	4	4
5NO	5	0
4NO+1NC	4	1
3NO+2NC	3	2
2NO+3NC	2	3
1NO+4NC	1	4
5NC	0	5

Industrial Relays

SH series

General information

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Optional units

Front mounting Auxiliary contact block
 2 or 4-pole
 Highly reliable bifurcated contact can be used in low-level circuit of 5V, 3mA.

Operation counter
 This counter indicates the number of relay ON-OFF operations to ensure easy maintenance and inspection.

Terminal cover
 The relay can easily be fitted with terminal covers for finger safety.

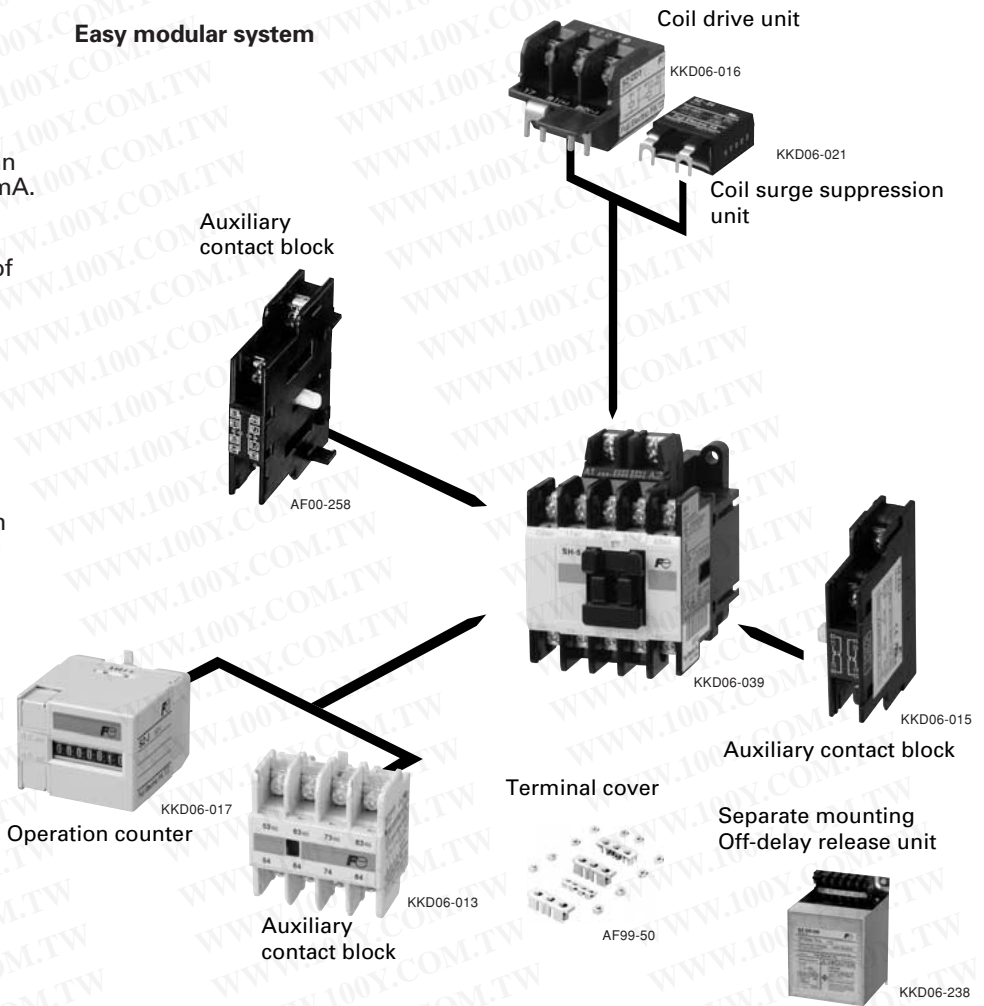
Top mounting Coil drive unit
 This unit controls ON-OFF operation for industrial relay with output from electronic equipment.

Coil surge suppression unit
 This unit absorbs coil surge voltage due to relay ON-OFF operations.

Side mounting Auxiliary contact block
 Single pole (1NO+1NC)

Separate mounting Off-delay release unit
 This industrial relay can be held in closed position even when the instantaneous power failure occurs.

Easy modular system



Description			Type	Ordering code	Description			Type	Ordering code
Auxiliary contact block	For SH-4, SH-5 Front mounting (Bifurcated)				Terminal cover	For SH-4, SH-4H		SZ-T1	SZ1T1
	4NO	SZ-A40	SZ1A40	For SH-5, SH-5H		SZ-T2	SZ1T2		
	3NO+1NC	SZ-A31	SZ1A31	For front mounting contact block 4-pole		SZ-T5	SZ1T5		
	2NO+2NC	SZ-A22	SZ1A22	2-pole		SZ-T6	SZ1T6		
	2NO	SZ-A20	SZ1A20	For side mounting contact block 1-pole		SZ-T7	SZ1T7		
	1NO+1NC	SZ-A11	SZ1A11	Coil drive unit	24V DC Relay contact	SZ-CD1	SZ1CD1		
	2NC	SZ-A02	SZ1A02		Solid-state contact	SZ-03/CD2-24	SZ103CD224		
	1NO+1NC *	SZ-A111	SZ1A111	Coil surge suppression unit	Varistor 24-48V AC/DC	SZ-Z1	SZ1Z1		
	2NO+2NC *	SZ-A222	SZ1A222		100-250V AC/DC	SZ-Z2	SZ1Z2		
	Front mounting (Single button)				380-440V AC/DC	SZ-Z3	SZ1Z3		
	4NO	SZ-A40H	SZ1A40H		24-48V AC/DC with LED	SZ-Z6	SZ1Z6		
	3NO+1NC	SZ-A31H	SZ1A31H		100-240V AC/DC with LED	SZ-Z7	SZ1Z7		
2NO+2NC	SZ-A22H	SZ1A22H	C-R	24-48V AC/DC	SZ-Z4	SZ1Z4			
Side mounting (Bifurcated)				100-250V AC/DC	SZ-Z5	SZ1Z5			
1NO+1NC	SZ-AS1	SZ1AS1		24-48V AC/DC with LED	SZ-Z8	SZ1Z8			
1NO+1NC	SZ-AS1H	SZ1AS1H		100-240V AC/DC with LED	SZ-Z9	SZ1Z9			
Operation counter	Without alarm contact		SZ-J	SZ1J	Off-delay release unit	100V AC 50/60Hz	SZ-DE100	SZ1DE100	
	With alarm contact					110V AC 50/60Hz	SZ-DE110	SZ1DE110	
	At 1-million operations	SZ-J1	SZ1J1	200V AC 50/60Hz		SZ-DE200	SZ1DE200		
	At 2-million operations	SZ-J2	SZ1J2	220V AC 50/60Hz		SZ-DE220	SZ1DE220		
	At 3-million operations	SZ-J3	SZ1J3	Up to 240V AC available					
	At 4-million operations	SZ-J4	SZ1J4	Live section cover	For SH-4, SH-4H		SZ-JC1	SZ1JC1	
	At 5-million operations	SZ-J5	SZ1J5		For SH-5, SH-5H		SZ-JC2	SZ1JC2	
	At 6-million operations	SZ-J6	SZ1J6						
At 7-million operations	SZ-J7	SZ1J7							
At 8-million operations	SZ-J8	SZ1J8							

Note: * Overlapping contact