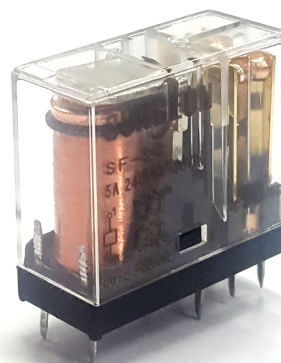


FEATURE

- Miniature, slim style design.
- UL approved.
- Creepage distance of more than 8mm
(Between coil and conact)
- High-sensitivity drive and low power dissipation
- 5KV minimum dielectric withstanding voltage
(Between coil and contact)
- High contact capability (16A 250V AC-H TYPE)
- Wide coil permissive voltage range



ORDERING INFORMATION

<u>SF</u>	<u>2</u>	<u>C</u>	<u>D12</u>	<u>H</u>
1	2	3	4	5
1. Miniature High power Relay 2. 1: Single pole 2: Double pole 3. A : Form A (Make) B : Form B (Make) C : Form C (1A1B)			4. DC 5,6,9,12,24,48,AC 220 5. Nil : Standard type (10A) H : High capacity (16A) Only for 1 Form A or B	

COIL RATINGS

Nominal Voltage (VDC,AC)	Coil Resistance (ohm)	Nominal Current (mA)	Pick-up voltage	Drop-out voltage	max. voltage	Coil power dissipation
			% of nominal voltage			
5VDC	50	143 (100)	80 max.	10 min	130 max.	Applox. 0.5W
6VDC	72	120 (83.3)				
9VDC	160	56.3				
12VDC	285	42.1				
18VDC	640	28.1				
24VDC	1,150	20.9				
48VDC	4,600	10.4				
220VAC	20,000	7.0				

Note : The rated current and resistance are measured at a coil temperature of 20 with tolerances of 10%

CONTACT RATINGS

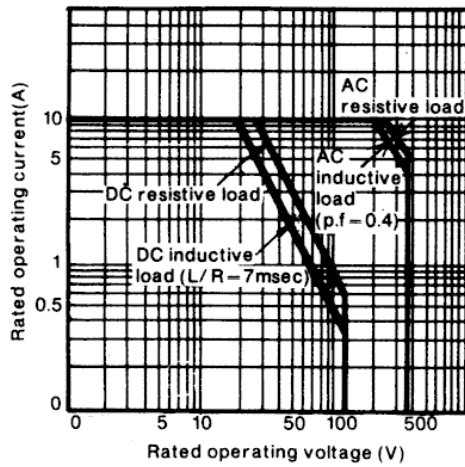
Contacts	1 polestandard type (1C)		1 pole H type (1A, 1B)		2 pole standard type (2C)	
ITEM / LOAD	Resitive load ($\cos\phi = 1$)	Inductive load ($\cos\phi=0.4$ L/R = 7mS)	Resitive load ($\cos\phi = 1$)	Inductive load ($\cos\phi=0.4$ L/R = 7mS)	Resitive load ($\cos\phi = 1$)	Inductive load ($\cos\phi=0.4$ L/R = 7mS)
Rated load	10A 250VAC 10A 30VDC	7.5A 250VAC 5A 30VDC	16A 250VAC 16A 30VDC	8A 250VAC 8A 30VDC	5A 250VAC 5A 30VDC	2A 250VAC 3A 30VDC
Carry current	10A		16A		5A	
Max. voltage	380VAC 125VDC					
Max. switching current	10A		16A		5A	
Max. switching capacity	2500VA 300W	1875VA 150W	14000VA 480W	2000VA 240W	1250VA 150W	500VA 90W
Min. permissible load (ref. value)	5VDC 100mA					

CHARACTERISTICS

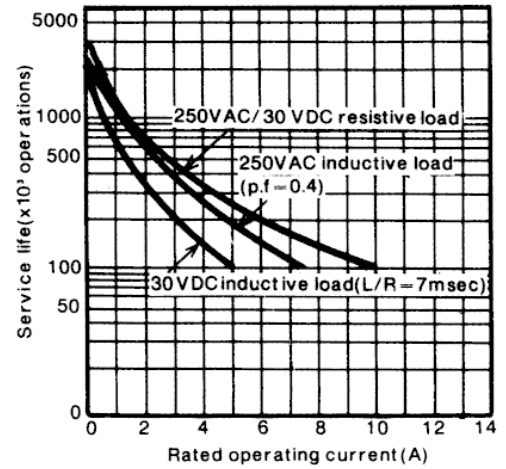
		Single pole type	Double pole type
Contact arrangement		single pole standard type 1 Form A, 1 Form B, 1 Form C Single pole H type 1Form A, 1 Form B	Double pole standard type 2 Form A, 2 Form B, 2 Form C
Contact Material		Silver - alloy	
Initial contact resistance		100m ohm max. measured at 6VDC, 1A	
Coil power dissipation		0.72(standard Type), 0.5W(High - Sensitivity Type)	
Coil temperature rise		45 deg. max. (at rated voltage at 20℃)	
Insulation resistance		1,000M ohm min. at 500VDC	
Break down voltage	Between contacts	1,000 VAC for 1minute	
	Between adjacent contacts	3,000 VAC for 1minute	
	Between coil and contacts	5,000 VAC for 1minute	
Lightening (1 x 40uS)	Between adjacent contacts	6,000V min.	
	Between coil and contacts	10,000V min.	
Operating time		15mS max. (at nominal voltage at 20℃)	
Release Time		5mS max. (at nominal voltage at 20℃)	
Expected life	Mechanical	20 x 10 ⁶ operations min.	
	Electrical	100 x 10 ³ operations min.	
Shork resistance	Functional	10G's	
	Destrucive	100G's	
Vibration resistance	Functional	10 - 50Hz (Double amplitude 1.5mm)	
	Destrucive	10 - 50Hz (Double amplitude 2.0mm)	
Operating frequency	Mechanical	18,000 ops/hour	
	Electrical	1,800 ops/hour (working ratio : 50%)	
Ambient temperature		- 40℃ ~ + 70℃	
Humidity		45% ~ 85% RH	
Unit weight		approx. 17gr.	

CHARACTERISTICS DATA

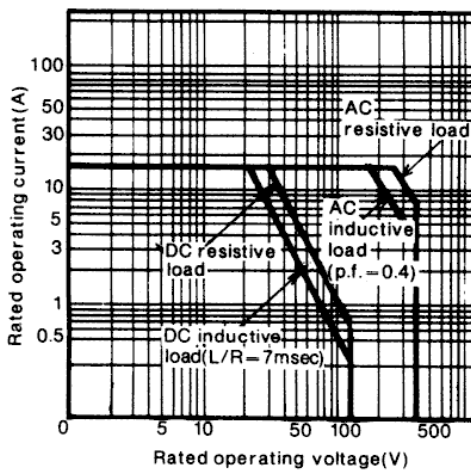
SF-1



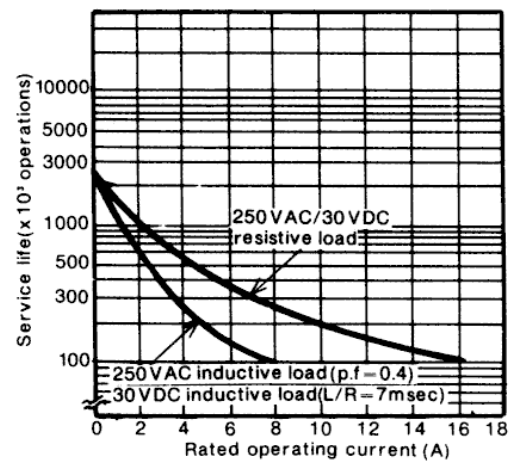
SF-1



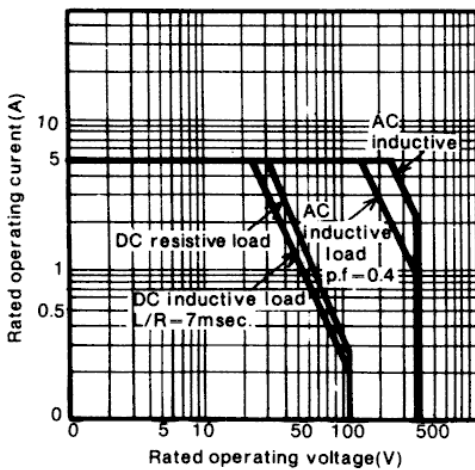
SF-1H



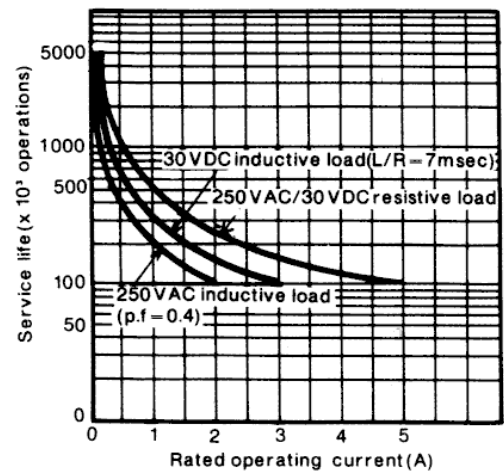
SF-1H



SF2



SF2



DIMENSIONS

Single-pole standard type/Single-pole H type

	1 Form C	1 Form A		1 Form B	
	Standard type	Standard type	H type	Standard type	H type
SCHEMATICS (bottom view)					
P.C. BOARD PATTONS (bottom view)					

Double pole standard type

	2 Form C	2 Form A	2 Fprm B
SCHEMATICS (bottom view)			
P.C. BOARD PATTONS (bottom view)			