



Features

- 20A switching capability.
- SPST (Normally Open) and SPDT available.
- Dielectric strength impulse current: 60A.
- Suitable for motor control.

Safety Approval

UL, C-UL File No.: E190598

Contact Capacity

Model	SFB -DM	SFB-D
Nominal switching capacity (res. load)	20A 250VAC	NO/NC: 15A/10A 250VAC
Max. switching current	20A	15A
Max. switching voltage	250VAC	250VAC
Max. switching power	5,000VA	3,750VA

Charateristic Data

Contact material	Silver alloy	
Initial contact resistance (at 6VDC 1A)	50mΩ Max.	
Operate time (at nominal volt.)	15msec. Max.	
Release time (at nominal volt.)	10msec. Max.	
Initial insulation resistance	1,000MΩ Min.(DC500V)	
Initial dielectric strength	Between open contacts: AC1,000V, 50/60Hz 1Min.	
	Between coil and contact: AC3,000V, 50/60Hz 1Min.	
Vibration resistance	Functional	10 ~ 55Hz at double amplitude of 1.5 mm
	Destructive	10 ~ 55Hz at double amplitude of 1.5 mm
Shock resistance	Functional	10G Min.
	Destructive	100G Min.
Endurance (operations)	Mechanical (at 7,200 ops./h)	10,000,000
	Electrical (at 900 ops./h)	100,000
Ambient temperature	-40°C ~ +105°C (no condensation)	
Unit weight	Approx. 39.0 g	

Coil Data (at 20°C)

Nominal voltage (VDC)	Nominal operating current ± 10% (mA)	Coil resistance ± 10% (Ω)	Max. allowable voltage	Pick-up voltage (Max.)	Drop-out voltage (Min.)	Nominal operating power
5	180.00	27.8	110 % of nominal voltage	70% of nominal voltage	10 % of nominal voltage	Approx. 0.90W
6	150.00	40				
9	100.00	90				
15	75.00	160				
18	50.00	360				
24	37.50	640				
48	18.75	2,560				

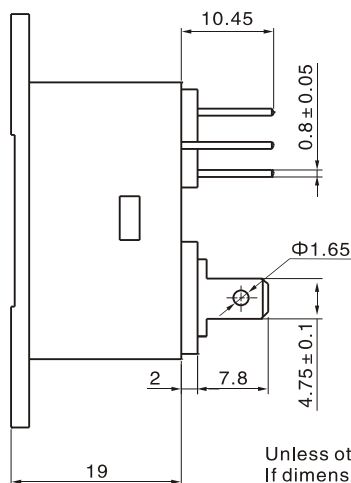
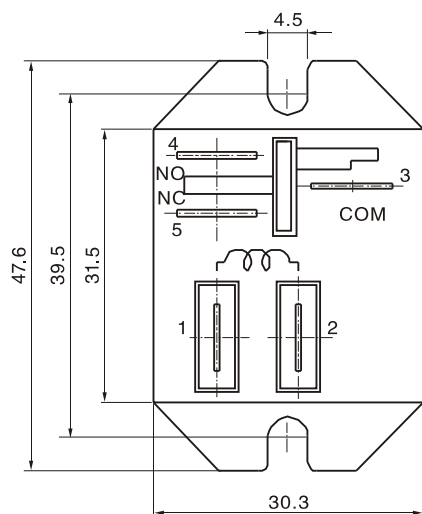
Safety Approval Ratings

Approval	UL/CUL
File No.	E190598
Approved ratings	Form A: 20A 250VAC, General Use Form A or B: 1.5 HP 250VAC Form C: 15A 250VAC, General Use, N.O. 10A 250VAC, General Use, N.C.

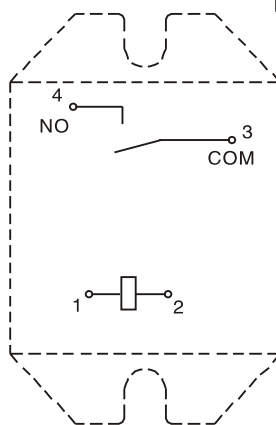
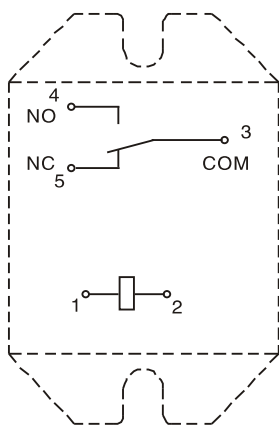
Ordering Information

Nomenclature					
SFB	-1	12	D	M	F-XX
Special Parameter: Nil-Standard type, Letter or number-Special requirement					
Insulation System: Nil-Standard, B-Class B, F-Class F					
Contact Form: Nil-Form C, M-Form A					
Coil Power: D-0.90W					
Coil Voltage (VDC): 05, 06, 09, 12, 18, 24, 48					
Number of Poles: 1-1 Pole					
Type Designation: SFB					

Outline Dimensions, Wiring Diagram, Mounting Holes (unit: mm)

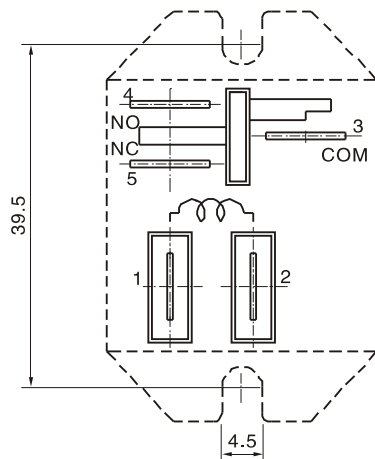


Unless otherwise specified:
 If dimension < 1mm, tolerance: ±0.2mm;
 If dimension 1~5mm, tolerance: ±0.3mm;
 If dimension > 5mm, tolerance: ±0.4mm.
 Note: 1. Extended terminal dimension is dimension before soldering.
 2. Tolerance of mounting holes : ±0.1mm.



1c Wiring Diagram (bottom view)

1a



Mounting Holes (bottom view)

Typical Applications

- Motor control
- Home appliances and industrial control equipment

Characteristic Curves

