

FEATURES

- 1A Main contact + 1B Auxiliary contact
- With Auxiliary monitoring contact, Detection of main contact welding makes it possible to construct a safety circuit
- 4kV Dielectric strength (Between Main contact to coil)
- Main Contact Resistance to Short Circuit Current
- Contact gap:2.25mm
- Insulation system: Class F
- Dimension: 35 x 25 x 28 mm (L x W x H)

CONTACT DATA

Contact arrangement		1A(Main contact) + 1B(Auxiliary contact)
Contact resistance (initial)	Main contact	10 mΩ(6VDC20A)
Contact rating(Resistive)	Main contact	Making 10A,Loading 48A,Breaking:10A 277VAC
	Auxiliary contact	1A 12VDC
Contact clearance	Main contact	≥2.25mm
Max. switching voltage	Main contact	600VAC
Min. switching load	Auxiliary contact	NC: 100mA 12VDC NC(Gold plated): 10mA 12VDC
Max. switching current	Main contact	48A
	Auxiliary contact	1A
Max. switching power	Main contact	13296VA
	Auxiliary contact	12W
Contact material	Main contact	AgSnO ₂
	Auxiliary contact	AgNi

CHARACTERISTICS

Insulation resistance	1000MΩ at 500VDC
Dielectric strength	4000VAC, 1 min. between coil to Main contacts
	2500VAC, 1 min. between open Main contacts
	4000VAC,1min.between Main contact to Auxiliary contact
	2000VAC,1min. between coil to Auxiliary contacts
Surge voltage	10kV(1.2/50μs)
Operate time	Max. 30 ms (nominal voltage)
Release time	Max. 20 ms (nominal voltage)
Vibration resistance	Main contact:10-55Hz, 1.5mm DA
Temperature rise	70K max.(Rated voltage excitation will reach hold voltage,at 85℃)
Shock resistance	Functional:10G(Main contact) Destructive:100G(Main contact)
Humidity	5% to 85% RH
Ambient temperature	-40℃ ~ 85℃(Apply holding voltage to coil)
Life expectancy	1 x 10 ⁵ ops Main contact ≥ 5 x 10 ⁴ ops(Making 10A, Loading 48A, Breaking 10A 277VAC, Resistive load, 1s on 9s off,at 85℃)
- Mechanical	
- Electrical	

ME-89

MASSUSE RELAY

COIL SPECIFICATIONS

Nominal voltage (VDC)	Pick-up voltage VDC(Max.)	Drop-out voltage VDC(Min.)	Nominal current (mA±10%)	Coil resistance (Ω±10%)	Power consumption(W)	Max. allowable voltage(VDC)
5	3.5	0.3	384	13	1.92	110% of nominal voltage
9	6.3	0.45	213	42.2	1.92	
12	8.4	0.6	160	75	1.92	
18	12.6	0.9	107	168.8	1.92	
24	16.8	1.2	80	300	1.92	
48	33.6	2.4	40	1200	1.92	

ORDERING INFORMATION

<u>ME-89</u>	-	<u>012</u>	-	<u>H</u>		<u>D</u>		<u>T</u>		<u>F</u>
Model No.	Coil Voltage	Contact Form	Auxiliary contacts arrangement	Contact Material	Insulation System					
ME-89	5VDC-48VDC	H: 1 A	Nil: Without auxiliary contact D: 1B	T: AgSnO ₂	F : Class F					

Dimensions(unit:mm)

Tolerance: ±0.4mm

