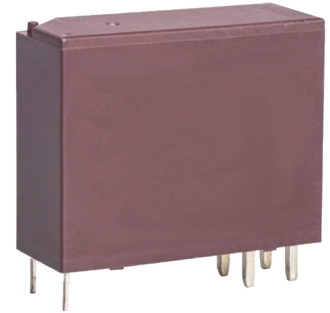


» Features

- 40A, 50A or 60A Switching Capability
- Single Coil Latching; Dual Coil Latching
- Dielectric strength 4kV between coil and contact



39 x 15 x 30.2 [mm]



» Application Examples

- Pre-payment Power Meters
- Charging Pile

» Ordering Information

	NF65L	100	E	50	C	1	P	12	D	Nil
	1	2	3	4	5	6	7	8	9	10
1. Type:	NF65L = Latching				6. Terminal Layout:	1 = Terminal Type 1 2 = Terminal Type 2				
2. Contact configuration:	100 = 1NO (1 form A) 010 = 1NC (1 form B) 001 = 1CO (1 form C)				7. Coil polarity:	P = positive ¹⁾ N = negative ¹⁾				
3. Contact material:	E = AgSnO ₂				8. DC Coil voltage:	09 = 9V; 12 = 12V; 24 = 24V 48 = 48V				
4. Contact rating:	40 = 40A 50 = 50A 60 = 60A				9. Coil number & power:	S = Single Coil 1.5W D = Dual Coil 3W + 3W				
5. Pin layout:	C = Contact #4 is closed O = Contact #4 is open				10. Special Suffix:	Nil = Standard				

1) Refer to Coil Polarity Diagrams

» Contact Data

Contact Arrangement	1 form A (NO), 1 form B (NC) or 1 form C (CO)
Contact Material	AgSnO ₂
Contact Rating (Resistive Load)	40/50/60A, 250VAC/30VDC ¹⁾
Max. Switching Voltage	250VAC / 30 VDC
Max. Switching Current	40/50/60A ¹⁾
Max. switching power	10kVA/12.5kVA/15kVA ¹⁾
Contact Resistance	≤ 2mΩ @6VDC, 1A (initial)
Electrical endurance	10 x 10 ³
Mechanical endurance	100 x 10 ³

1) Refer to Ordering Key Position 4

» Coil Rating

Rated Coil Voltage [VDC]	Nominal Current [mA]	Coil Resistance R[Ω] ± 10%	Pull-in Voltage [VDC]	Drop-out Voltage [VDC]	Coil Power
9	167	54	6.8	6.8	Single Coil 1.5W
12	125	96	9	9	
24	63	384	18	18	
48	31	1536	36	36	
9	333	27 + 27	6.8	6.8	Dual Coil 3W + 3W
12	250	48 + 48	9	9	
24	125	192 + 192	18	18	
48	63	768 + 768	36	36	

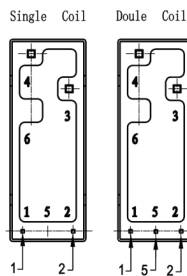
The data shown in Coil Rating tables are initial values

» Specification

Initial Dielectric Strength	between open contacts 1.500VAC, 50/60 Hz for 1 min between contact and coil 4.000VAC, 50/60 Hz for 1 min
Insulation resistance	1000 MΩ (@ 500VDC)
Operate Time / Release Time	≤ 20ms (@nominal voltage)
Operate Voltage / Release Voltage	≤ 75% of nominal voltage
Vibration Resistance (Malfunction)	10 to 55 Hz, 1.5mm double amplitude
Shock Resistance	Malfunction: 100m/s ² ; Destruction: 1.000m/s ²
Ambient Operating Temperature ¹⁾	-40 to +85°C
Ambient Operating Humidity ¹⁾	20% to 85%
Pulse Duration	50ms min.
Weight	Approx. 34g

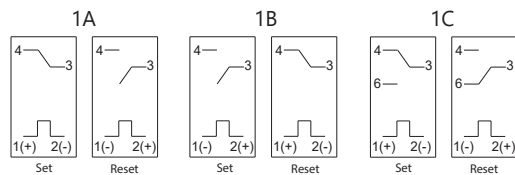
1) Without icing or condensation

» Coil Polarity Diagrams

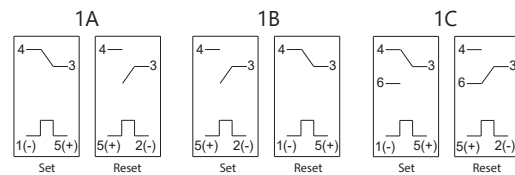


Positive Polarity

Single Coil

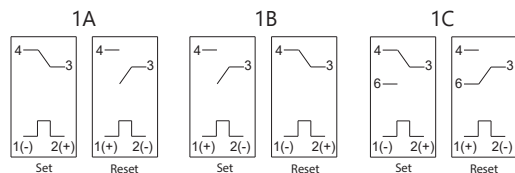


Double Coil

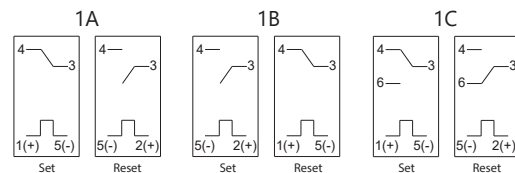


Negative Polarity

Single Coil

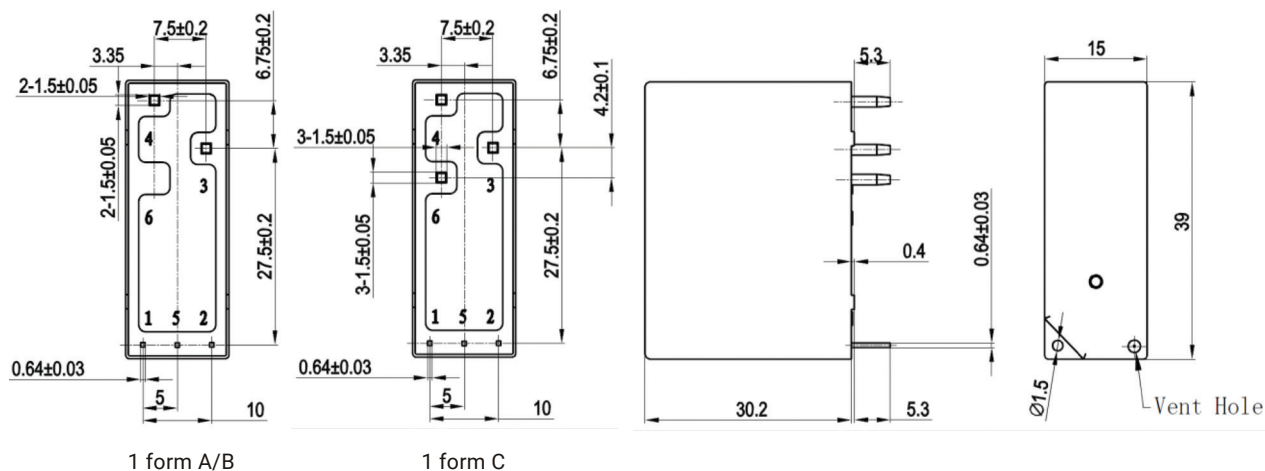


Double Coil

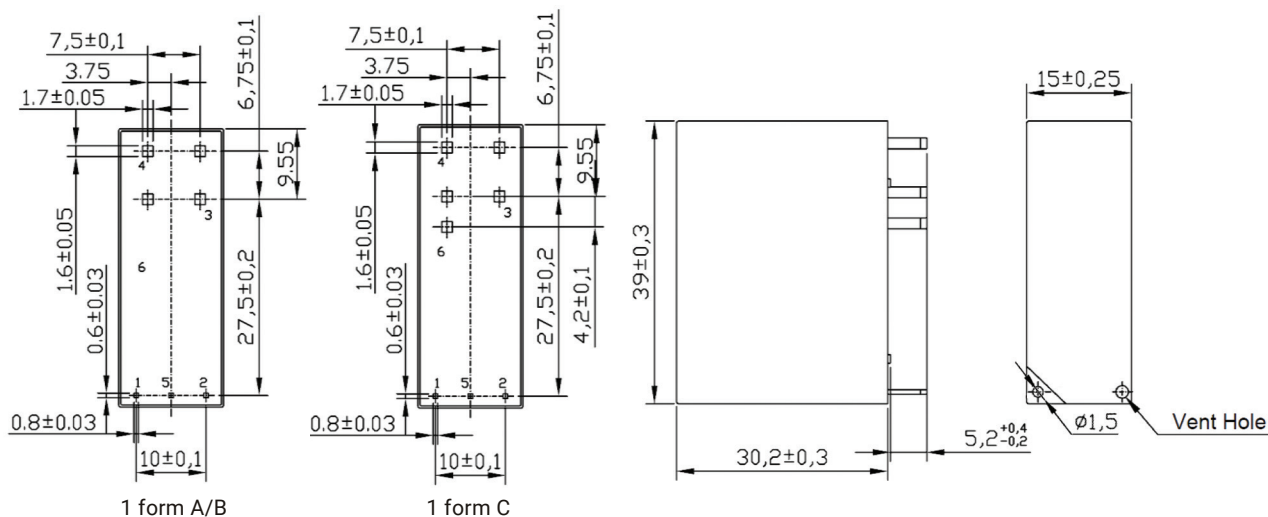


» Dimensions

Terminal Type 1



Terminal Type 2



Remark: 1) The reference tolerance in outline dimension: outline dimension ≤1mm, reference tolerance is ±0.2mm;
outline dimension >1mm and ≤5mm, reference tolerance is ±0.3mm;
outline dimension >5mm, reference tolerance is ±0.5mm.

2) The reference tolerance for PC Board layout is ±0.1mm.

3) Relay is on the "reset" or "set" status when being released from stock, with the consideration of shock risen from transit and relay mounting, relay would be changed to "set" or "reset" status, therefore, when application (connecting the power supply), please set the relay to "set" or "reset" status on request.

Disclaimer

All technical performance data apply to the relay as such, specific conditions of the individual application are not considered. Please always check the suitability of the relay for your intended purpose. We do not assume any responsibility or liability for not complying herewith. Any responsibility for the application of the product remains with the customer only. All specified values apply at room temperature, unless otherwise stated. All specifications are subject to change without notification. All rights are reserved.