

Slimline Relay & Base – Screw Clamp



Product Details

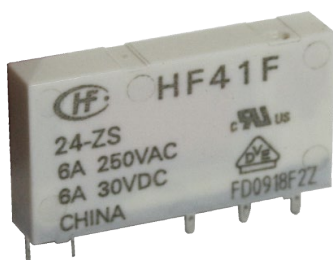
Part No.	Detail
RT12VAC/DC	Single Pole Relay and base 6 Amp 12V AC/DC – Screw Clamp
RT24VAC/DC	Single Pole Relay and base 6 Amp 24V AC/DC – Screw Clamp

Single Pole Relays

Features

- Slim size (5mm)
- Z type relay
- Switching capability: 6A
- Dielectric strength: 4kV (between coil and contacts)
- Surge voltage up to 6kV (between coil and contacts)
- Contact plating: Gold plated
- Meeting VDE0700, 0631 reinforce insulation
- Highly sensitive coil power: $\approx 170\text{mW}$
- RoHS Compliant – environmentally friendly product
- Dimensions: 28.0 x 5.0 x 15.0mm

Product Image



Product Certifications



File No.: E133481



File No.: 40020043



File No.: CQC17002175724

Specifications

Contact Data

Contact arrangement	1C
Contact resistance ¹⁾	100mΩ max. (at 1A 6VDC) Gold plated: 30mΩ max.(at 1A 6VDC)
Contact material	AgSnO ₂ , AgNi
Contact rating (Res. load)	6A 250VAC / 30VDC
Max. switching voltage	400VAC / 125VDC
Max. switching current	6A
Max. switching power	1500VA / 180W
Mechanical endurance	1 x 10 ⁷ OPS
Electrical endurance	H type: 6 x 10 ⁴ ops (6A 250VAC/30VDC, Resistive load, AgNi, at 85°C, 1s on 9s off) Z type: 3 x 10 ⁴ ops (NO, 6A 250VAC/30VDC, Resistive load, AgNi, at 85°C, 1s on 9s off) 1 x 10 ⁴ ops (NC, 6A 250VAC/30VDC, Resistive load, AgNi, at 85°C, 1s on 9s off)

Characteristics

Insulation resistance		1000MΩ (at 500VDC)
Dielectric strength	Between coil & contacts	4000VAC 1 min
	Between open contacts	1000VAC 1 min
Operate time (at nomi.volt.)		8ms max.
Release time (at nomi.volt.)		4ms max.
Shock resistance*1)	Functional	49m/s ²
	Destructive	980m/s ²
Vibration resistance*1)		10Hz to 55Hz 1mm DA
Humidity		5% to 85% RH
Ambient temperature		-40°C to 85°C
Termination		PCB
Unit weight		Approx. 5g
Construction		Plastic sealed, Flux proofed

- Notes:** 1) Index is that of relay without socket and is not in relay length direction.
 2) The data shown above are initial values.
 3) Please find coil temperature curve in the characteristic curves below.
 4) Please do not install a SPDT(1 Form C) type relay on either of the smallest sides or facing downward.
 5) UL insulation system: Class A.

Coil Data (23°C)

Nominal Voltage VDC	Pick-up Voltage VDC max. ¹⁾	Drop-out Voltage VDC min. ¹⁾	Max. Voltage VDC ³⁾	Coil Resistance Ω
5	3.75	0.25	7.5	147 x (1±10%)
6	4.50	0.30	9.0	212 x (1±10%)
9	6.75	0.45	13.5	476 x (1±10%)
12	9.00	0.60	18	848 x (1±10%)
18	13.5	0.90	27	1906 x (1±15%)
24	18.0	1.20	36	3390 x (1±15%)
48 ⁴⁾	36.0	2.40	72	10600 x (1±15%)
60 ⁴⁾	45.0	3.00	90	16600 x (1±15%)

- Notes:** 1) The data shown above are initial values.
 2) When require pick-up voltage ≤ 70% nominal voltage, special order allowed .
 3) Maximum voltage refers to the maximum voltage which relay coil could endure in a short period of time.
 4) For products with rated voltage ≥ 48V, measures should be taken to prevent coil overvoltage in order to protect coil in test and application (eg. Connect diodes in parallel).

COIL	
Coil power	5VDC to 24VDC: Approx. 170mW 48VDC, 60VDC: Approx. 210mW

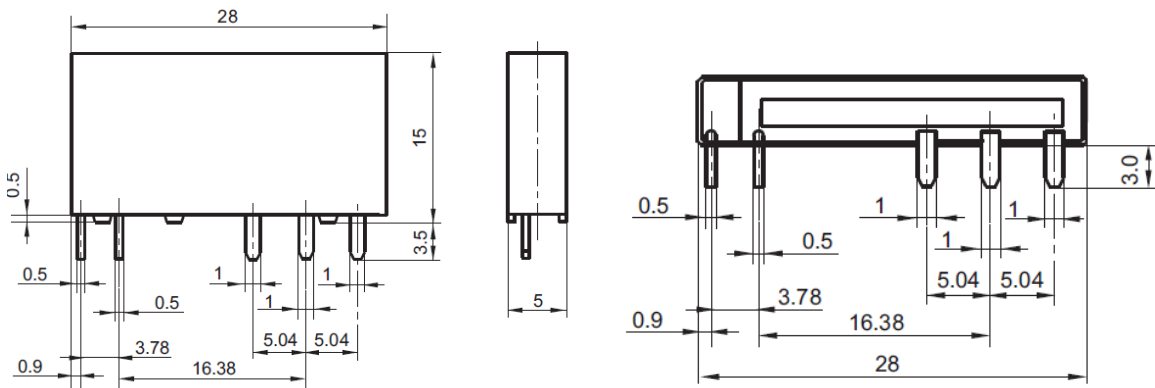
Safety Approval Ratings

UL/CUL	6A 30VDC at 85°C
	6A 277VAC at 85°C
	R300
VDE	B300
	6A 30VDC at 85°C
	6A 250VAC at 85°C

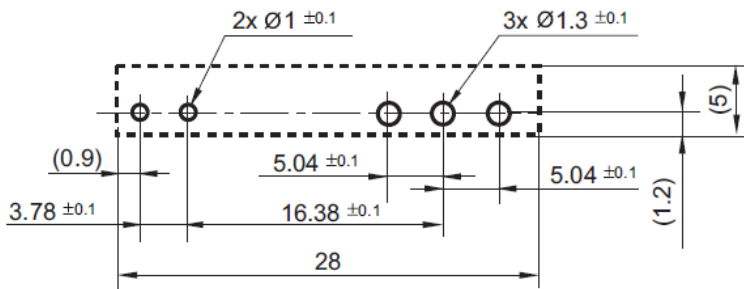
Notes: 1) All values unspecified are at room temperature.
 2) Only typical loads are listed above. Other load specifications can be available upon request.

Product Dimensions

Outline Dimensions Diagrams



PCB Layout



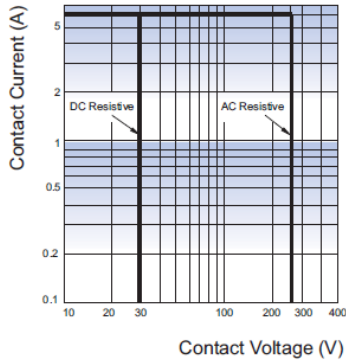
Dimensions in mm

Wiring Diagram

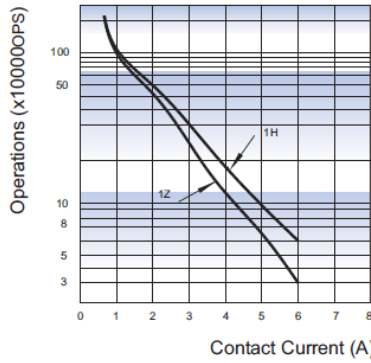


Characteristic Curves

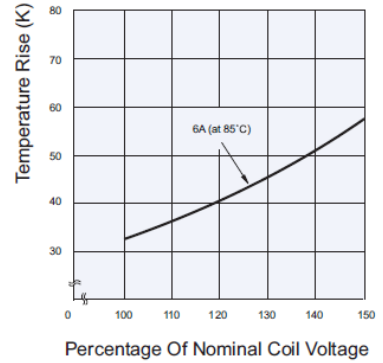
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



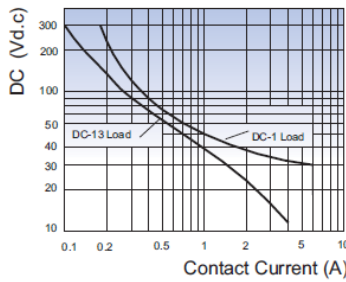
COIL TEMPERATURE RISE



Test conditions:
NO, AgNi, Resistive load, 250VAC,
Flux proofed, Room temp., 1s on 9s off.

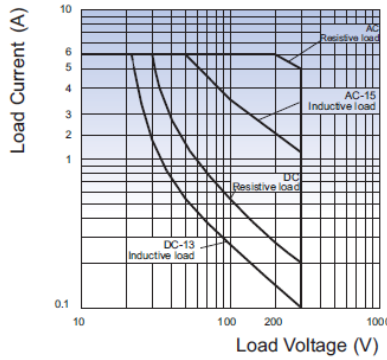
Test conditions:
6A 85°C
(Typical curve of 24VDC standard type)

LOAD SWITCHING CAPACITY CURVE



Test conditions: NO, Room temp.

BREAKING CAPACITY TRIP CURVE



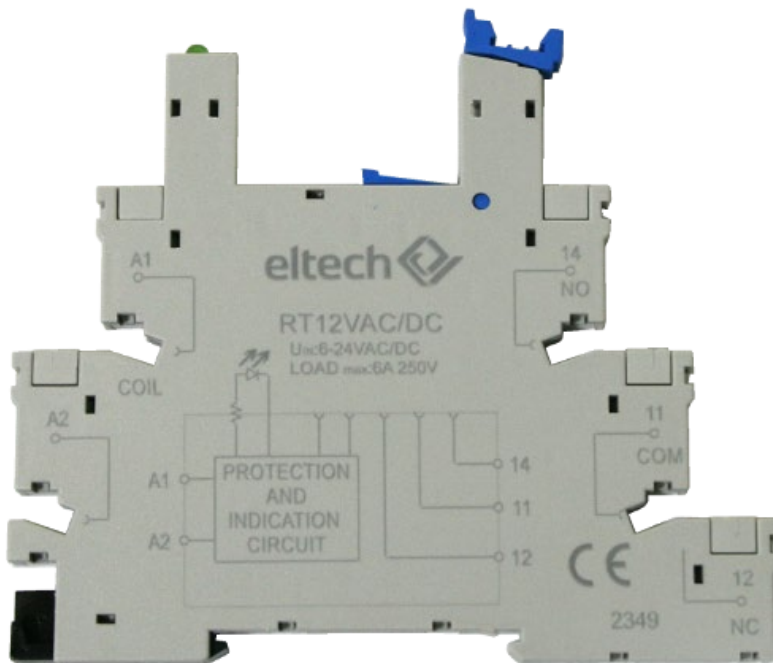
Test conditions:
Room temp., Plastic sealed, 1s on 9s off.

Relay Base

Features

- Dielectric strength can reach 4000VAC and the insulation resistance is 1000MΩ
- Finger protection device
- Secure retention and easy ejection of relays
- Built-in protection circuit can indicate power status and expand the range of relay input voltage
- RoHS Compliant – environmentally friendly product
- Screw terminal
- DIN Rail mounting

Product Image



Product Certifications

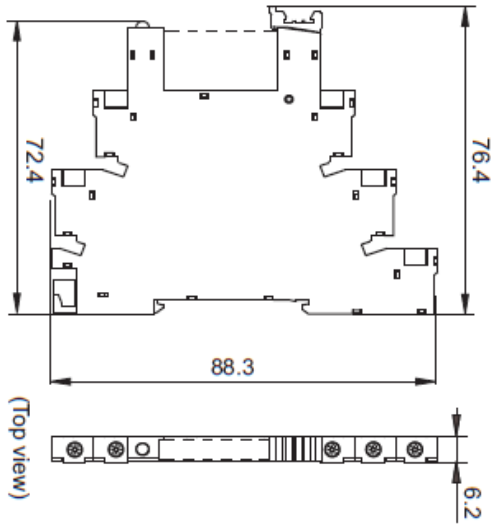


File No.: E253370

File No.: 40020043

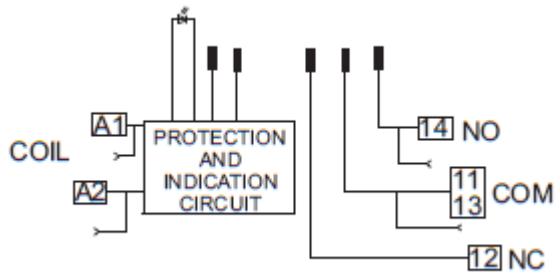
Product Dimensions

Outline Dimensions



Dimensions in mm

Wiring Diagram

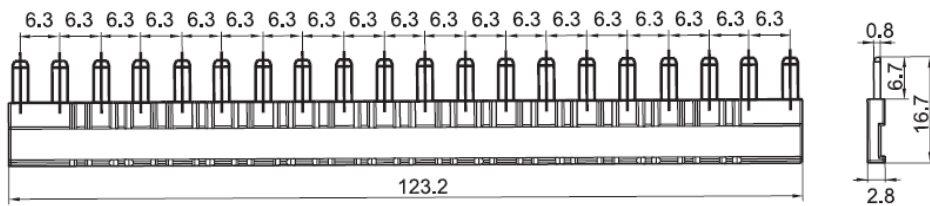


Link Bar

Product Image



Product Dimensions



Product Details

Part No.	Colour	Ways
JBRT	Blue	20

Subject to change without notice