HF32FA-T (JZC-32FA-T)

SUBMINIATURE INTERMEDIATE POWER HIGH TEMPERATURE RELAY

c UL us
File No.:E134517

VDE
File No.:40006182

Features

- High temperature: 105°C
- 5A switching capability
- 1 Form A configuration
- Creepage/clearance distance>8mm
- 5kV dielectric strength (between coil and contacts)
- Meets VDE 0700, 0631 reinforce insulation
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (17.6 x 10.1 x 12.3) mm

CONTACT DATA

Contact arrangement	1A
Contact resistance	70mΩ (at 1A 24VDC)
Contact material	AgNi
Contact rating (Res. load)	5A 250VAC 5A 30VDC
Max. switching voltage	250VAC/30VDC
Max. switching current	5A
Max. switching power	1250VA/150W
Mechanical endurance	1 x 10^6OPS
Electrical endurance	1 x 10^5OPS

CHARACTERISTICS

Insulation resistance		1000MΩ (at 500VDC)
Dielectric strength	Between coil & contacts	5000VAC 1min
	Between open contacts	1000VAC 1min
Operate time (at nomi. volt.)		8ms max.
Release time (at nomi. volt.)		4ms max.
Humidity		35% to 95% RH
Ambient temperature		-40°C to 105°C
Shock resistance	Functional	100m/s²(10g)
	Destructive	1000m/s²(100g)
Vibration resistance		10Hz to 55Hz 1.65mm DA
Termination		PCB
Unit weight		Approx.4.6g
Construction		Wash tight, Flux proofed

Notes: 1) The data shown above are initial values.
2) Please find coil temperature curve in the characteristic curves below.

COIL

Coil power	Sensitive: 200mW

COIL DATA at 23°C

Sensitive Type

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
3	2.25	0.15	5.1	45 x (1±10%)
5	3.75	0.25	8.5	125 x (1±10%)
6	4.50	0.30	10.2	180 x (1±10%)
9	6.75	0.45	15.3	400 x (1±10%)
12	9.00	0.60	20.4	720 x (1±10%)
18	13.5	0.90	30.6	1600 x (1±10%)
24	18.0	1.20	40.8	2800 x (1±10%)

SAFETY APPROVAL RATINGS

UL&CUR	5A 250VAC at 105°C
VDE	5A 250VAC at 105°C 3A 400VAC at 85°C

Notes: Only some typical ratings are listed above. If more details are required, please contact us.

ORDERING INFORMATION

HF32FA-T / 012 -H S L 1 G (XXX)

Type[1]	HF32FA-T JZC-32FA-T (Old type)
Coil voltage	3, 5, 6, 9, 12, 18, 24VDC
Contact arrangement	**H:** 1 Form A
Construction [2]	**S:** Wash tight **Nil:** Flux proofed
Coil power	**L:** Sensitive
Termination	**1:** Type 1 **2:** Type 2
Contact plated [3]	**G:** Gold plated **Nil:** No gold plated
Customer special code [4]	Only for special requirements, e.g. (555) stands for RoHS compliant

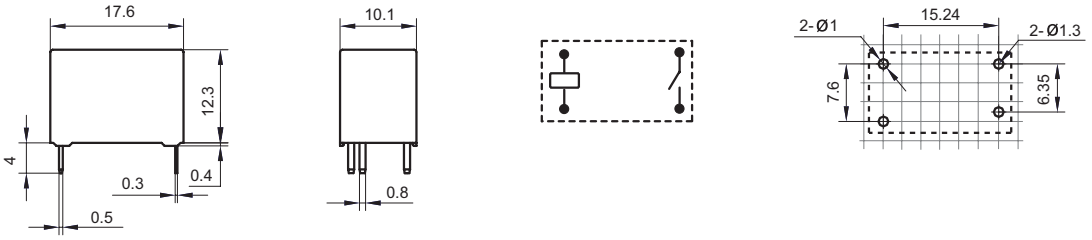
Notes: 1) We have now gradually updated our ordering information. We suggest new type should be selected. If necessary, old type can be kept for some period for the old customers.
2) Under the ambience with dangerous gas like H_2S, SO_2 or NO_2, wash tight type is recommended; please test the relay in real applications. If the ambience allows, flux proofed is preferentially recommended.
3) For gold plated type, the min. switching current and min. switching voltage is 10mA 5VDC.
2) HF32FA-T is an environmental friendly product. Please mark a special code (555) when ordering.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

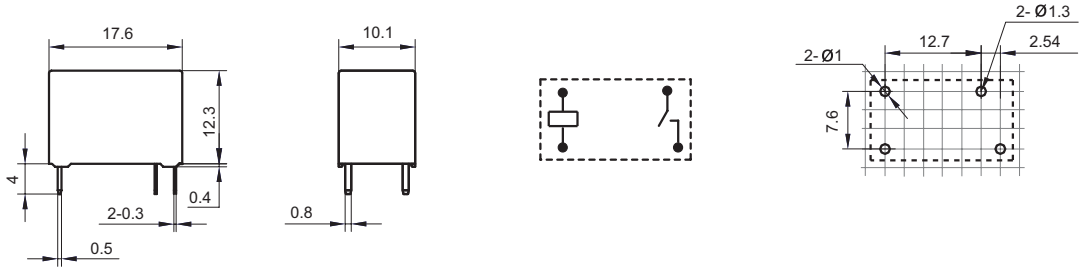
Unit: mm

Outline Dimensions | Wiring Diagram (Bottom view) | PCB Layout (Bottom view)

H□□1



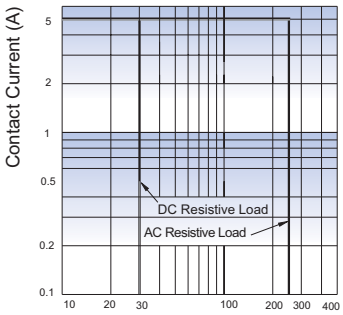
H□□2



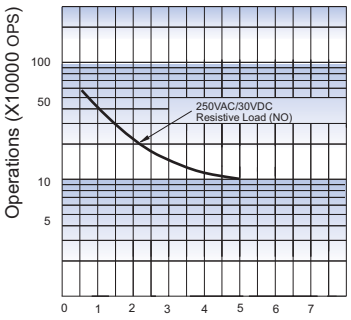
Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.
2) The tolerance without indicating for PCB layout is always ±0.1mm.
3) The width of the gridding is 2.54mm.

CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER



EDURANCE CURVE



TEMPERATURE RISE