



HLRRD400-2

Rail transit relay



Features

- Compact relay with 4 sets of transfer contacts
- Integrated back electromotive force suppression diode
- Magnetic field blowing arc, high load switching capability
- Integrated mounting spring, no additional clamping clamp required (when mounting sockets)
- Minimum switching current 10mA
- Maximum switching current 10A
- Mechanical durability :5 million cycles
- Visual shell
- Integrated coil LED indicator

RoHS compliant

Contact parameter

Contact form	4-group conversion
Contact resistance ⁽¹⁾	100mΩ max.(at 0.1A 6VDC)
Contact material	Ag, Ag+gild
Contact load	10A 110VDC 5A 72VDC L/R≤40ms 0.5A 110VDC L/R≤0ms
Maximum switching voltage	250VDC, 440VAC
Maximum switching current	10A
Mechanical durability	5×10 ⁸ time
Electrical durability	≥5×10 ⁴ time(85°C, 5s on 5s off, 10A 110VDC, Resistive load)

Note: The preceding values are initial values.

Performance parameter

Insulation resistance	1000 MΩ (500VDC)
Dielectric withstand voltage	Disconnect between contacts 1000VAC 1min
	Between contact groups 2500VAC 1min
	Between coil and contact 2500VAC 1min
Surge voltage(between coil and contact)	5kV(1.2/50μs)
Operating time (at rated voltage)	30ms max.
Release time (at rated voltage)	30ms max.
strike	Meet IEC 61373 Class I Class B body installation
Vibration	Meet IEC 61373 Class I Class B body installation
humidness	5% ~ 95%RH
Temperature range	-50°C ~ 85°C
Outlet mode	plug-in
weight	About 140g
Encapsulation mode	Dust cover ⁽¹⁾

Note: (1) The above values are initial values;
(2) Dust cover structure can not be used for H₂S, SO₂, NO₂ and other pollution environment.

Coil parameter

Rated coil	The power is about 2.3W
------------	-------------------------

Coil specification sheet 23°C

Rated voltage VDC	Operating voltage VDC	Release voltage VDC	Maximum voltage ⁽²⁾ VDC	Coil resistance Ω
12	≤8.4	≥1.2	15	72×(1±10%)
24	≤16.8	≥2.4	30	270×(1±10%)
36	≤25.2	≥3.6	45	562×(1±10%)
48	≤33.6	≥4.8	60	1044×(1±10%)
55	≤38.5	≥5.5	69	1300×(1±10%)
72	≤50.4	≥7.2	90	2406×(1±10%)
96	≤67.2	≥9.6	120	4400×(1±10%)
100	≤70	≥10	125	4400×(1±10%)
110	≤77	≥11	137.5	5330×(1±10%)
120	≤84	≥12	150	6160×(1±10%)
125	≤87.5	≥12.5	156.25	7634×(1±10%)
220	≤154	≥22	275	21776×(1±10%)
250	≤175	≥25	312.5	23850×(1±10%)

Note: (1) The above values are initial values;
(2) The maximum voltage refers to the relay coil in a short period of time (not more than 1 min) can withstand When the applied voltage exceeds the maximum voltage, please contact us for confirmation.



Order mark example

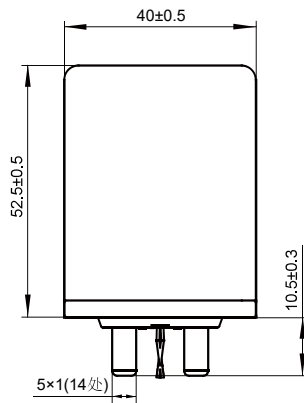
	HLRRD400/	110	-3G	D	J	M	(XXX)
Relay type							
Coil voltage	12, 24, 36, 48, 55, 72, 100, 110, 120, 125, 220, 250 VDC						
Contact material	3: Ag	3G: Ag+gild					
Coil protection	D: Active diode	Nil: diodeless					
Coil indication	J: LED indication	Nil: No LED					
Arc extinguishing mode	M: Magnetic blow-out	Nil: No magnetic blow-out					
Property number ⁽¹⁾	XXX: Customer special requirements		None: Standard type				

Note: (1) Customer special requirements shall be identified in the form of feature number after review by our company.

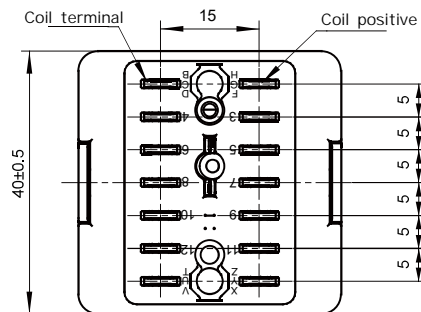
Outline drawing, wiring diagram, mounting hole dimensions

Unit: mm

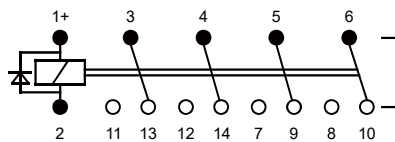
External drawing



Mounting hole size
(Bottom view)



Wiring diagram
(Bottom view)



Remarks: (1) Other requirements, such as the standard subway connection point identification (standard number: BZDT1111-FA-G000-002), please contact our company;

(2) No dimensional tolerance is noted in the outline size of the product part, when the outline size is less than 1mm, the tolerance is $\pm 0.2\text{mm}$; When the overall size is between (1 and 5) mm, the tolerance is $\pm 0.3\text{mm}$; When the overall size is $> 5\text{mm}$, the tolerance is $\pm 0.4\text{mm}$.