





HLRRB400-3

Rail transit relay

Features

- Instantaneous, forced guide relay
- 4 sets of double-pass double-break contacts, gold plated and silver tin oxide specifications are available
- Equipped with a socket to choose from, with a metal spring, with the socket to fit firmly
- Minimum switching current 10mA
- Maximum switching current 12A
- Mechanical durability: 5 million cycles
- Integrated indicator light, reverse suppression diode
- Visual shell

RoHS compliant

Contact parameter

Contact form	4Z
Contact resistance ⁽¹⁾	≤100mΩ(0.1A 6VDC)
Contact material	Ag, Ag-Au
Contact load	12A 220VAC
	3A 72VDC
	1A 72VDC L/R≤30ms
Maximum switching voltage	250VDC, 220VAC
Maximum switching current	12A
Mechanical durability	5×10 ⁶ time
Electrical durability	≥2.5×10 ⁶ time(80°C, 5s on 5s off, 3A 72VDC, Resistive load)

Note: The preceding values are initial values.

Coil parameter

Rated coil power	About 3.5W
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Coil specification sheet 23°C

Rated voltage VDC	Operating voltage VDC	Release voltage VDC	Maximum voltage ⁽²⁾ VDC	Coil resistance Ω
12ME	≤8	≥1.25	16	40×(1±10%)
24AG	≤16	≥2.5	33	170×(1±10%)
36FL	≤25	≥3.5	45	390×(1±10%)
48DG	≤33	≥4.5	60	625×(1±10%)
72BG	≤48	≥6.5	90	1600×(1±10%)
96US	≤65	≥9	120	2400×(1±10%)
110SV	≤73.7	≥11	137.5	3457×(1±10%)
115EG	≤77	≥11.5	144	4000×(1±10%)
550FG	≤440	≥50	660	75500×(1±8%)

Note: (1) The above values are initial values;
 (2) The maximum voltage refers to the maximum voltage value that the relay can withstand in a short time.

Performance parameter

Insulation resistance	1000 MΩ (500VDC)	
Dielectric withstand voltage	Disconnect between contacts	2000VAC 1min
	Between contact groups	2600VAC 1min
	Between coil and contact	2600VAC 1min
Surge voltage (between coil and contact)	6kV(1.2/50μs)	
Operating time (at rated voltage)	55ms max.	
Release time (at rated voltage)	80ms max.	
strike	stability	Meet IEC 61373 Class I Class B body in stallation
	intensity	Meet IEC 61373 Class I Class B body in stallation
Vibration	Meet IEC 61373 Class I Class B body in stallation	
humidness	5% ~ 95%RH	
Temperature range	-40°C ~ 80°C	
Outlet mode	plug-in	
weight	About 450g	
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.



Order mark example

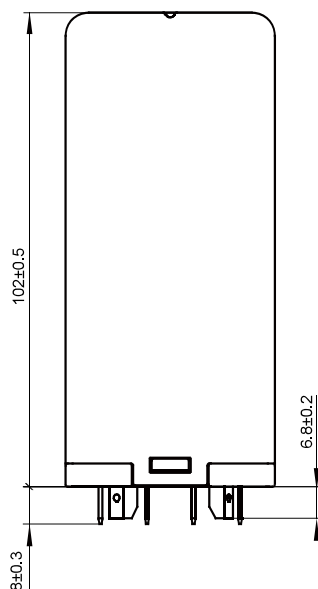
	HLRRB400/	110SV	-3	G	D	J	A	(XXX)
Relay type								
Coil voltage	12ME, 24AG, 36FL, 48DG, 72BG, 96US, 110SV, 115EG, 550FG VDC							
Contact material	3: AgNi T: AgSnO							
Contact coating	G: gild Nil: None							
Coil protection	D: Active diode Nil: diodeless							
Coil indication	J: LED indication Nil: No LED							
Installation form	Nil: Normal form							
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.

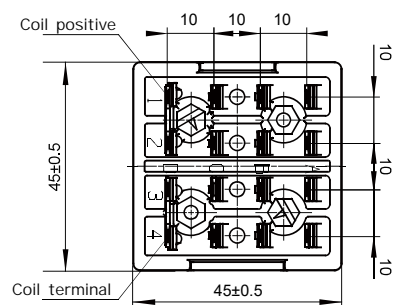
Outline drawing, wiring diagram, mounting hole dimensions

Unit:mm

External drawing



Mounting hole size (Bottom view)

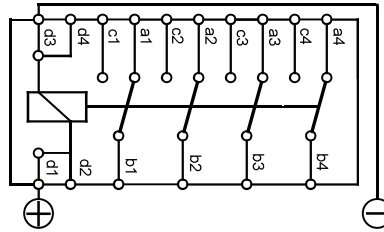




Outline drawing, wiring diagram, mounting hole dimensions

Unit:mm

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 engineer;
- (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 $\pm 0.4\text{mm}$.