



Huajin Technology

MAGNETIC LATCHING RELAY



PRODUCT
SELECTION GUIDE



HUAJIN TECHNOLOGY JIAXING CO., LTD



Huajin Technology

Huajin Technology Company Profile



Huajin Technology Jiaxing Co., Ltd. is located in Huangqiao Industrial Park, Yanyu Rd, Haiyan County, Zhejiang Province. The company was established in 2021. It is an emerging technology-based enterprise focusing on the R&D, production and sales of magnetic latching relays and manganin shunts.

The registered capital of the company is 10 million yuan, and the annual production of various products reaches more than 6 million. The company has passed the ISO9001-2015 quality management system certification, the relay products have passed the CQC certification and the IEC62055-31-UC2/UC3 test report, and the products all meet the requirements of the ROHS directive. At present, the company's products have been widely used in electric energy meters,

capacitor synchronous switches, self-resetting overvoltage and undervoltage protectors, and power supply communication equipment. Reliable quality assurance, professional technical services and superior cost performance make Huajin relay become the best choice for customers at home and abroad.

The company adheres to "people-oriented, honest and trustworthy", and creates a "win-win" with all partners! Adhering to the concept of "scientific and technological innovation, sustainable management" and relying on a deep understanding of industry development, it will use rapid response mechanisms, high-quality products and High cost-effective competitiveness, wholeheartedly serve the vast number of customers at home and abroad, and repay the society and colleagues with a grateful heart.

Catalog

<p>HJDJ02-100A</p>  <p>P01</p>	<p>HJE11C-90A</p>  <p>P09</p>	<p>HJE11F-M-120A</p>  <p>P17</p>
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Catalog

HJE24A-100A



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HJE33A-80A



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HJE33B-120A



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HJE31B-100A



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HJE33C-120A



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HJE32A-100A



P31

HJE34A-80A



P39

HJDJ02-100A

Motor Relay

Characteristic Description

- 100A switching capability
- Small size, good electrical contact stability
- Anti-magnetic field 500mt
- 4KV dielectrics strength coil to contact
- IEC-62055-31 UC3 compliant
- Outline dimensions (23×22×20)mm
- RoHS compliant



Contact Data

Rated load (FLA)	100A/250VAC
Contact form	1A & 1B
Contact material	AgSnO ₂
Initial contact resistance	1.5mΩ (0.1A@6vdc)
Max. switching current	100A
Max. switching voltage	250VAC
Max. switching power	25000VA
Electrical endurance	1x10 ⁴ ops
Mechanical endurance	1x10 ⁵ ops

Coil Data

Nominal coil voltage	9-12Vdc	
Operating voltage VDC	≥8VDC	
Coil Resistance (Ω ± 10%)@23°C	Single coil resistance	13.7Ω

Coil Power

Coil type	Pulse duration	Power consumption
Motor internal resistance single coil	100ms-200ms	Approx. 1.7W ± 10%
		Starting current needs 693mA ± 10%, 10ms needs 412mA ± 10%, 20ms needs 294mA ± 10%, 30ms needs 176mA ± 10%, 40ms needs 117mA ± 10%, 50ms needs 45mA ± 10%

Characteristics

Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Coil to contact	4000VAC 1 min
	Across open contact	2000VAC 1 min
Operate time	Max. 25ms	
Release time	Max. 25ms	
Shock resistance functional	100m/s ² (10g)	
Shock resistance destructive	1000m/s ² (100g)	
Ambient temperature	-40 ~ 85°C	
Humidity	98%RH, +40°C	
Vibration resistance	10-55Hz, 1.5mm (DA)	
Termination	PCB	
Unit weight	38g	
Construction	Dust protected	

Order Marks

HJDJ02 - 100A - 9VDC - S - T

Relays Model

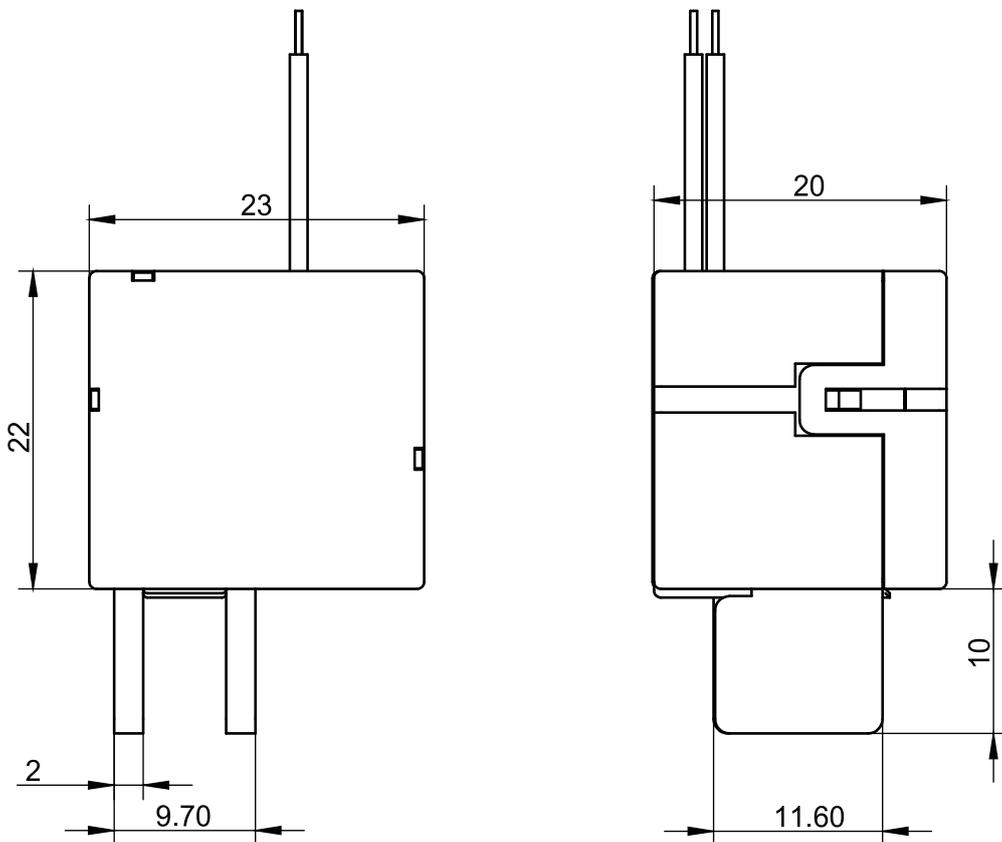
Terminal Type

Coil Voltage: 6/9/12/24VDC

Coil Type: Single Coil

Contact Material: T-AgSnO₂

Dimensions (mm)



Application Notes

In order to ensure correct opening, closing and long-term reliable operation of the relay, the excitation voltage applied to the motor coil must be at least 90% of the rated voltage in consideration of environmental temperature changes and other factors.

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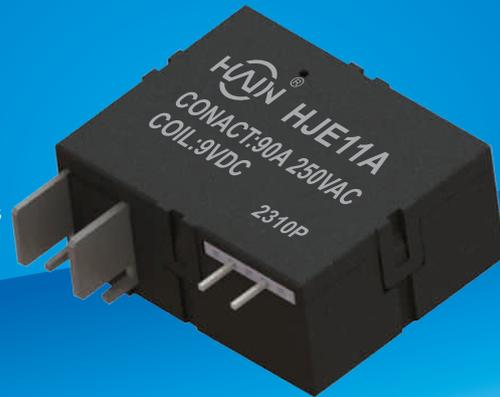
Email: alio@hj-relay.com URL: www.hj-relay.com

HJE11A-90A

Magnetic Latching Relay

Characteristic Description

- 90A switching capability
- Very minimal power consumption from the coil
- 4KV dielectrics strength coil to contact
- Contact pick-up and break-off time $\leq 200\mu s$
- Outline dimensions (39 × 30 × 16.5) mm
- Closing time of 2 times rated driving voltage $\leq 5ms$
- RoHS, CQC compliant



Contact Data

Rated load (FLA)	90A/250VAC
Contact form	1A & 1B
Contact material	AgSnO ₂
Initial contact resistance	2mΩ (0.1A@6vdc)
Max. switching current	90A
Max. switching voltage	250VAC
Max. switching power	15000VA
Electrical endurance	1 × 10 ⁴ ops
Mechanical endurance	1 × 10 ⁶ ops

Coil Power

Coil type	Pulse duration	Power consumption
Single	Min. 50ms	1.5W
Dual	Min. 50ms	3.0W

Characteristics

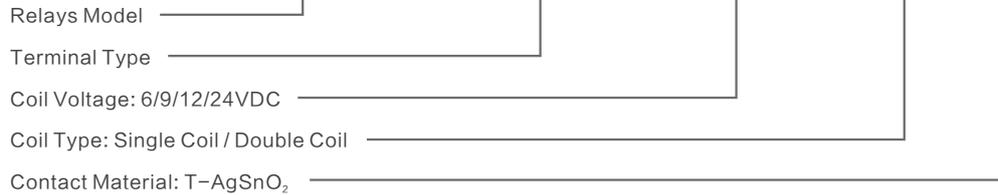
Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Coil to contact	4000VAC 1 min
	Across open contact	2500VAC 1 min
Operate time	Max. 10ms	
Release time	Max. 10ms	
Shock resistance functional	100m/s ² (10g)	
Shock resistance destructive	1000m/s ² (100g)	
Ambient temperature	-40 ~ 85°C	
Humidity	98%RH, +40°C	
Vibration resistance	10-55Hz, 1.5mm(DA)	
Termination	PCB	
Unit weight	40g	
Construction	Dust protected	

Coil Data

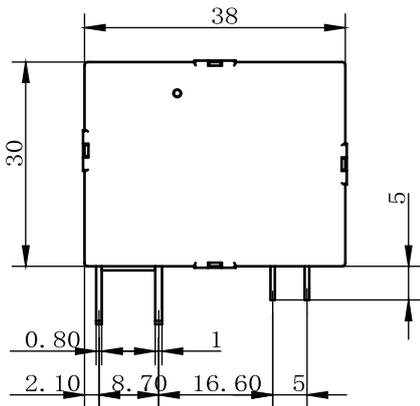
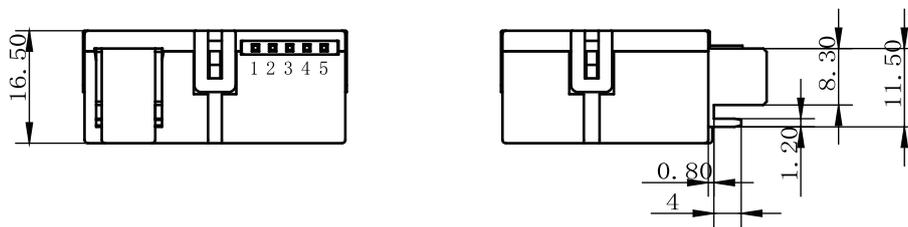
Nominal coil voltage	6Vdc	9Vdc	12Vdc	24Vdc	
Operating Voltage VDC	≤ 4.2	≤ 6.3	≤ 8.4	≤ 16.8	
Coil Resistance ($\Omega \pm 10\%$)@23°C	Single coil resistance	24Ω	54Ω	96Ω	384Ω
	Dual coil resistance	2 × 12Ω	2 × 27Ω	2 × 48Ω	2 × 192Ω

Order Marks

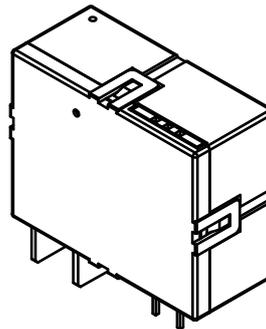
HJE11A - 90A - 9VDC - S - T



Dimensions (mm)



Coil type	pin-out
Single	2、4
Dual	1、3、5



Application Notes

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- 2、 In order to maintain an “open” or “closed” state of the relay, the coil voltage should reach the rated voltage. The pulse width should be 5 times the operating time to ensure a proper change of state. Do not energize both T1, T2 and T3 at the same time on a dual coil or energize the coil for longer than 1 minute (damage to the coil could incur).
- 3、 Relays have polarity, if the user's need differs from information, should be contact us.
- 4、 The relay to the factory inspection and use should handle to prevent damage effect, to the factory for damaging the goods should be strict distinction between the normal product and must not uses.

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HJE11B-60A

Magnetic Latching Relay

Characteristic Description

- 60A switching capability
- Very minimal power consumption from the coil
- 4KV dielectrics strength coil to contact
- IEC-62055-31 UC2 compliant
- Outline dimensions (39×30×16.5) mm
- RoHS, CQC compliant



■ Contact Data

Rated load (FLA)	60A/250VAC
Contact form	1A & 1B
Contact material	AgSnO ₂
Initial contact resistance	2mΩ (0.1A@6vdc)
Max. switching current	60A
Max. switching voltage	250VAC
Max. switching power	15000VA
Electrical endurance	1x10 ⁴ ops
Mechanical endurance	1x10 ⁶ ops

■ Coil Power

Coil type	Pulse duration	Power consumption
Single	Min. 50ms	1.5W
Dual	Min. 50ms	3.0W

■ Characteristics

Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Coil to contact	4000VAC 1 min
	Across open contact	2000VAC 1 min
Operate time	Max. 20ms	
Release time	Max. 20ms	
Shock resistance functional	100m/s ² (10g)	
Shock resistance destructive	1000m/s ² (100g)	
Ambient temperature	-40 ~ 85°C	
Humidity	98%RH, +40°C	
Vibration resistance	10-55Hz, 1.5mm(DA)	
Termination	PCB	
Unit weight	40g	
Construction	Dust protected	

■ Coil Data

Nominal coil voltage	6Vdc	9Vdc	12Vdc	24Vdc	
Operating Voltage VDC	≤4.2	≤6.3	≤8.4	≤16.8	
Coil Resistance (Ω ± 10%)@23°C	Single coil resistance	24Ω	54Ω	96Ω	384Ω
	Dual coil resistance	2 × 12Ω	2 × 27Ω	2 × 48Ω	2 × 192Ω

Order Marks

HJE11B - 60A - 9VDC - S - T

Relays Model

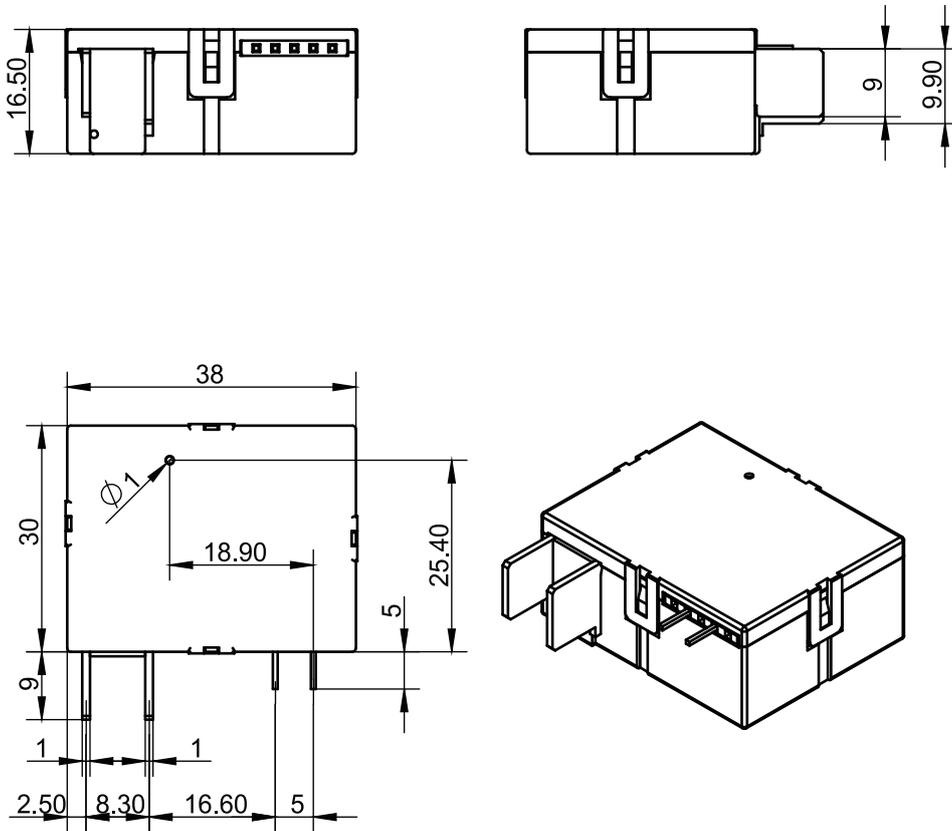
Terminal Type

Coil Voltage: 6/9/12/24VDC

Coil Type: Single Coil / Double Coil

Contact Material: T-AgSnO₂

Dimensions (mm)



Application Notes

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- 2、 In order to maintain an “open” or “closed” state of the relay, the coil voltage should reach the rated voltage. The pulse width should be 5 times the operating time to ensure a proper change of state. Do not energize both T1, T2 and T3 at the same time on a dual coil or energize the coil for longer than 1 minute (damage to the coil could incur).
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HJE11B-M-60A

Magnetic Latching Relay

Characteristic Description

- 60A/48VDC switching capability
- Very minimal power consumption from the coil
- Contact Load Maximum Switching DC 110VDC/60A
- 4KV dielectrics strength coil to contact
- Outline dimensions
- RoHS, CQC compliant



■ Contact Data

Rated load (FLA)	60A/72VAC
Contact form	1H & 1D
Contact material	AgSnO ₂
Initial contact resistance	≤1mΩ
Max. switching current	60A
Max. switching voltage	72VAC
Max. switching power	4320VA
Electrical endurance	1x10 ⁴ ops
Mechanical endurance	1x10 ⁵ ops

■ Coil Power

Coil type	Pulse duration	Power consumption
Single	Min. 50ms	1.5W
Dual	Min. 50ms	3.0W

■ Characteristics

Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Coil to contact	4000VAC 1 min
	Across open contact	2000VAC 1 min
Operate time	Max. 20ms	
Release time	Max. 20ms	
Shock resistance functional	98m/s ² (10g)	
Shock resistance destructive	980m/s ² (100g)	
Ambient temperature	-40 ~ 85°C	
Humidity	98%RH, +40°C	
Vibration resistance	10-55Hz, 1.5mm(DA)	
Termination	PCB	
Unit weight	40g	
Construction	Dust protected	

■ Coil Data

Nominal coil voltage	6Vdc	9Vdc	12Vdc	24Vdc	48Vdc	
Operating Voltage VDC	≤4.2	≤6.3	≤8.4	≤16.8	≤33.6	
Coil Resistance (Ω ± 10%)@23°C	Single coil resistance	24Ω	54Ω	96Ω	384Ω	1536Ω
	Dual coil resistance	2 × 12Ω	2 × 27Ω	2 × 48Ω	2 × 192Ω	2 × 768Ω

Order Marks

HJE11B - M - 60A - 12VDC - D - T - 2 - 1

Relays Model

Load type: DC

Terminal Type

Coil Voltage: 6/9/12/24/48VDC

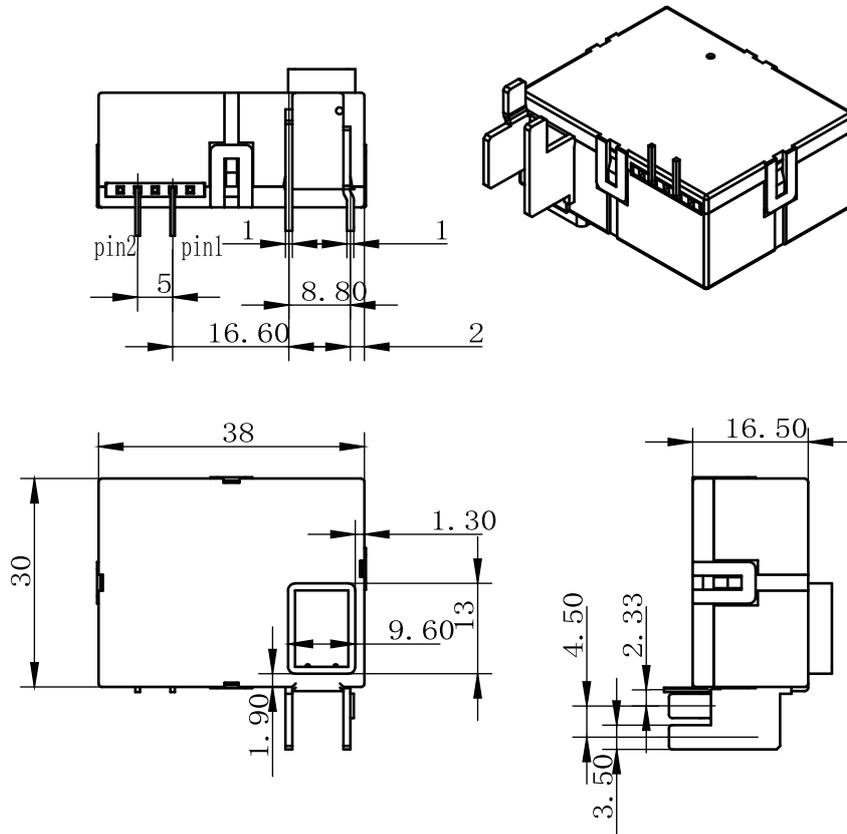
Contact Form: D: one set of open, H: one set of closed

Contact Material: T-AgSnO₂

Coil lead-out form: 2: Coil pin spacing is 5mm, coil pin is not bent 4: Coil pin spacing is 5mm, coil pin is bent into an L shape

Coil Type: Single Coil / Double Coil

Dimensions (mm)



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HJE11C-90A

Magnetic Latching Relay

Characteristic Description

- 90A switching capability
- Very minimal power consumption from the coil
- 4KV dielectrics strength coil to contact
- IEC-62055-31 UC2 compliant
- Outline dimensions(39×30×16.5)mm
- RoHS, CQC compliant



■ Contact Data

Rated load(FLA)	90A/250VAC
Contact form	1A & 1B
Contact material	AgSnO ₂
Initial contact resistance	2mΩ (0.1A@6vdc)
Max.switching current	90A
Max.switching voltage	250VAC
Max.switching power	22500VA
Electrical endurance	1x10 ⁴ ops
Mechanical endurance	1x10 ⁶ ops

■ Coil Power

Coil type	Pulse duration	Power consumption
Single	Min.50ms	1.5W
Dual	Min.50ms	3.0W

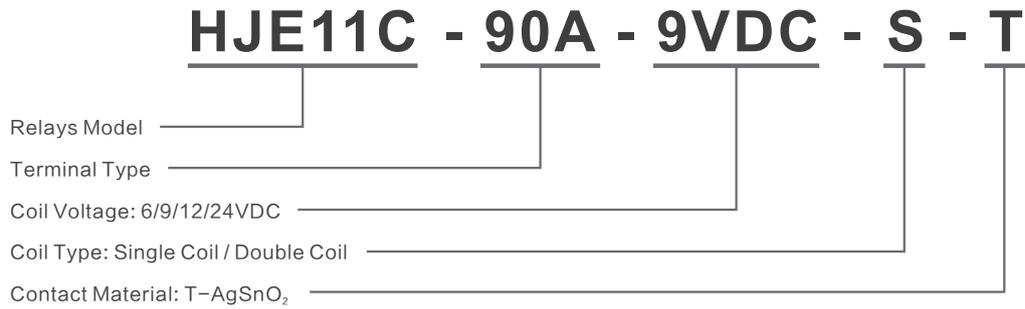
■ Characteristics

Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Coil to contact	4000VAC 1 min
	Across open contact	2000VAC 1 min
Operate time	Max.20ms	
Release time	Max.20ms	
Shock resistance functional	100m/s ² (10g)	
Shock resistance destructive	1000m/s ² (100g)	
Ambient temperature	-40 ~ 85℃	
Humidity	98%RH, +40℃	
Vibration resistance	10-55Hz, 1.5mm(DA)	
Termination	PCB	
Unit weight	40g	
Construction	Dust protected	

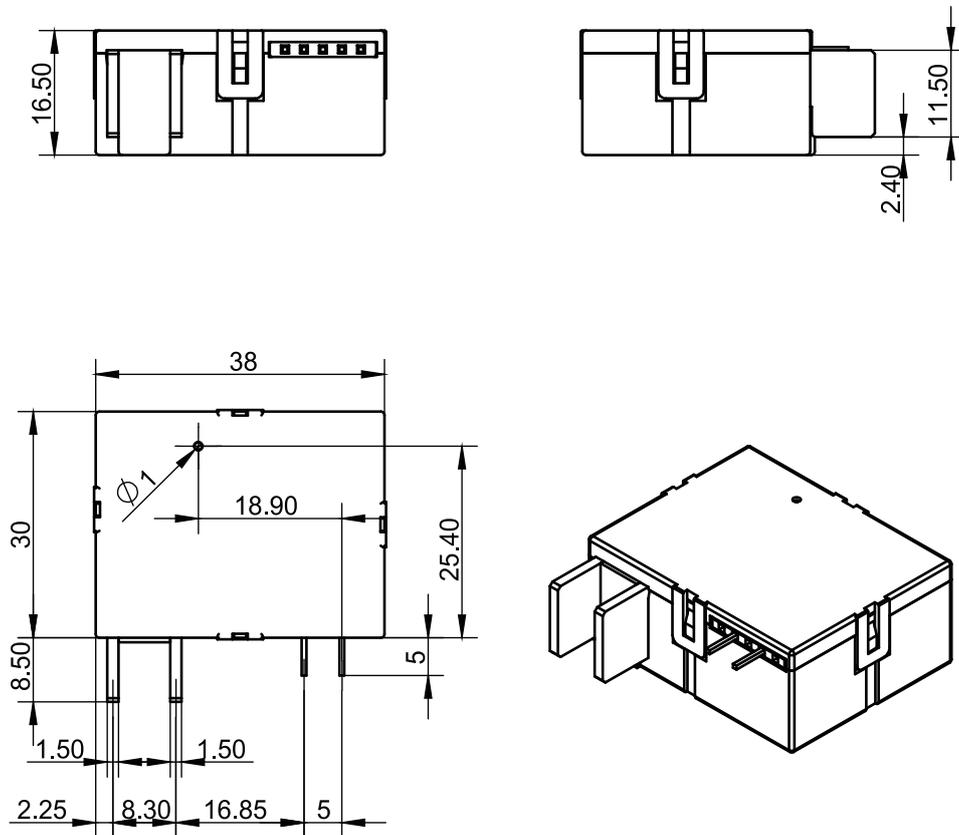
■ Coil Data

Nominal coil voltage	6Vdc	9Vdc	12Vdc	24Vdc	
Operating Voltage VDC	≤4.2	≤6.3	≤8.4	≤16.8	
Coil Resistance (Ω ± 10%)@23℃	Single coil resistance	24Ω	54Ω	96Ω	384Ω
	Dual coil resistance	2 × 12Ω	2 × 27Ω	2 × 48Ω	2 × 192Ω

Order Marks



Dimensions (mm)



Application Notes

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- 2、 In order to maintain an “open” or “closed” state of the relay, the coil voltage should reach the rated voltage. The pulse width should be 5 times the operating time to ensure a proper change of state. Do not energize both T1, T2 and T3 at the same time on a dual coil or energize the coil for longer than 1 minute (damage to the coil could incur).
- 3、 Relays have polarity, if the user’s need different from information, should be contact us.
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HJE11D-100A

Magnetic Latching Relay

Characteristic Description

- 100A switching capability
- Very minimal power consumption from the coil
- 4KV dielectrics strength coil to contact
- IEC-62055-31 UC2 compliant
- Outline dimensions(39.2×30×16.5)mm
- RoHS, CQC compliant



■ Contact Data

Rated load(FLA)	100A/250VAC
Contact form	1A & 1B
Contact material	AgSnO ₂
Initial contact resistance	2mΩ (0.1A@6vdc)
Max.switching current	100A
Max.switching voltage	250VAC
Max.switching power	25000VA
Electrical endurance	6x10 ³ ops
Mechanical endurance	1x10 ⁶ ops

■ Coil Power

Coil type	Pulse duration	Power consumption
Single	Min.50ms	1.5W
Dual	Min.50ms	3.0W

■ Coil Data

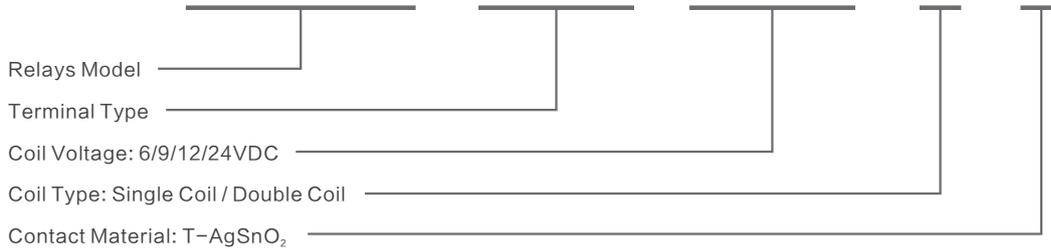
Nominal coil voltage	6Vdc	9Vdc	12Vdc	24Vdc	
Operating Voltage VDC	≤4.2	≤6.3	≤8.4	≤16.8	
Coil Resistance (Ω ± 10%)@23°C	Single coil resistance	24Ω	54Ω	96Ω	384Ω
	Dual coil resistance	2×12Ω	2×27Ω	2×48Ω	2×192Ω

■ Characteristics

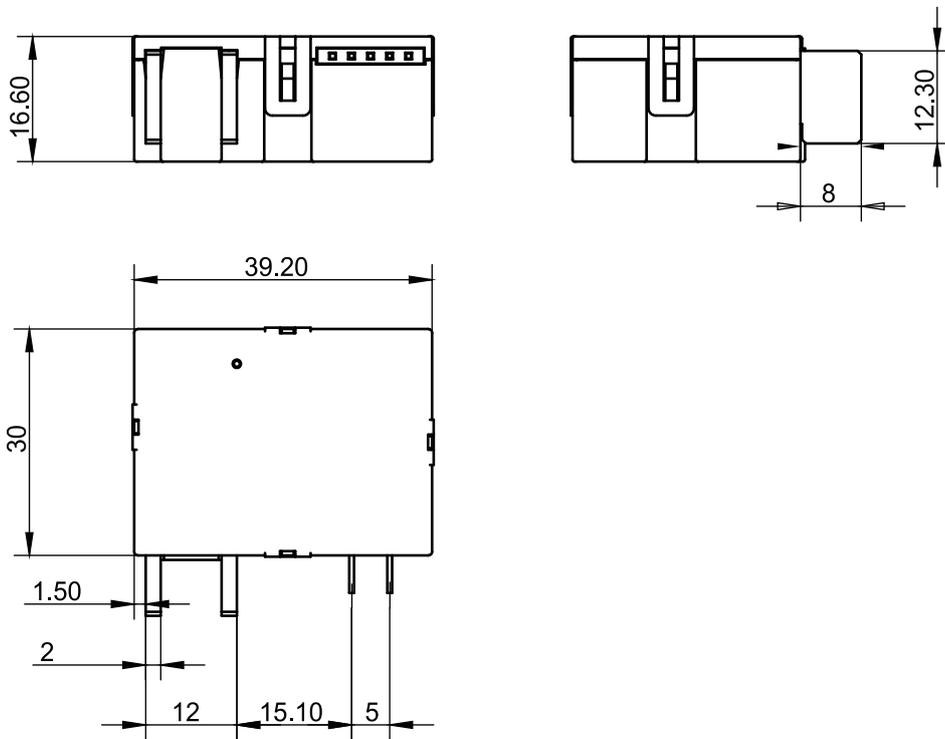
Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Coil to contact	4000VAC 1 min
	Across open contact	2000VAC 1 min
Operate time	Max.20ms	
Release time	Max.20ms	
Shock resistance functional	100m/s ² (10g)	
Shock resistance destructive	1000m/s ² (100g)	
Ambient temperature	-40 ~ 85°C	
Humidity	98%RH, +40°C	
Vibration resistance	10-55Hz, 1.5mm(DA)	
Termination	PCB	
Unit weight	45g	
Construction	Dust protected	

Order Marks

HJE11D - 100A - 9VDC - S - T



Dimensions (mm)



Application Notes

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- 2、 In order to maintain an “open” or “closed” state of the relay, the coil voltage should reach the rated voltage. The pulse width should be 5 times the operating time to ensure a proper change of state. Do not energize both T1, T2 and T3 at the same time on a dual coil or energize the coil for longer than 1 minute (damage to the coil could incur).
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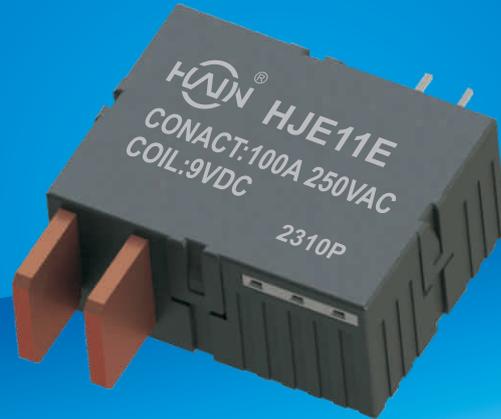
Email: alio@hj-relay.com URL: www.hj-relay.com

HJE11E-100A

Magnetic Latching Relay

Characteristic Description

- 100A switching capability
- Very minimal power consumption from the coil
- 4KV dielectrics strength coil to contact
- IEC-62055-31 UC3 compliant
- Outline dimensions(39×30×18.5)mm
- RoHS, CQC compliant



■ Contact Data

Rated load(FLA)	100A/250VAC
Contact form	1A & 1B
Contact material	AgSnO ₂
Initial contact resistance	2mΩ (0.1A@6vdc)
Max.switching current	100A
Max.switching voltage	250VAC
Max.switching power	25000VA
Electrical endurance	4x10 ⁴ ops
Mechanical endurance	1x10 ⁶ ops

■ Coil Power

Coil type	Pulse duration	Power consumption
Single	Min.50ms	2W
Dual	Min.50ms	4W

■ Characteristics

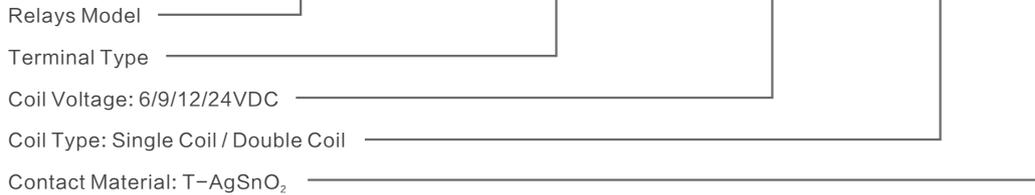
Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Coil to contact	4000VAC 1 min
	Across open contact	2000VAC 1 min
Operate time	Max.20ms	
Release time	Max.20ms	
Shock resistance functional	100m/s ² (10g)	
Shock resistance destructive	1000m/s ² (100g)	
Ambient temperature	-40 ~ 85℃	
Humidity	98%RH, +40℃	
Vibration resistance	10-55Hz, 1.5mm(DA)	
Termination	PCB	
Unit weight	55g	
Construction	Dust protected	

■ Coil Data

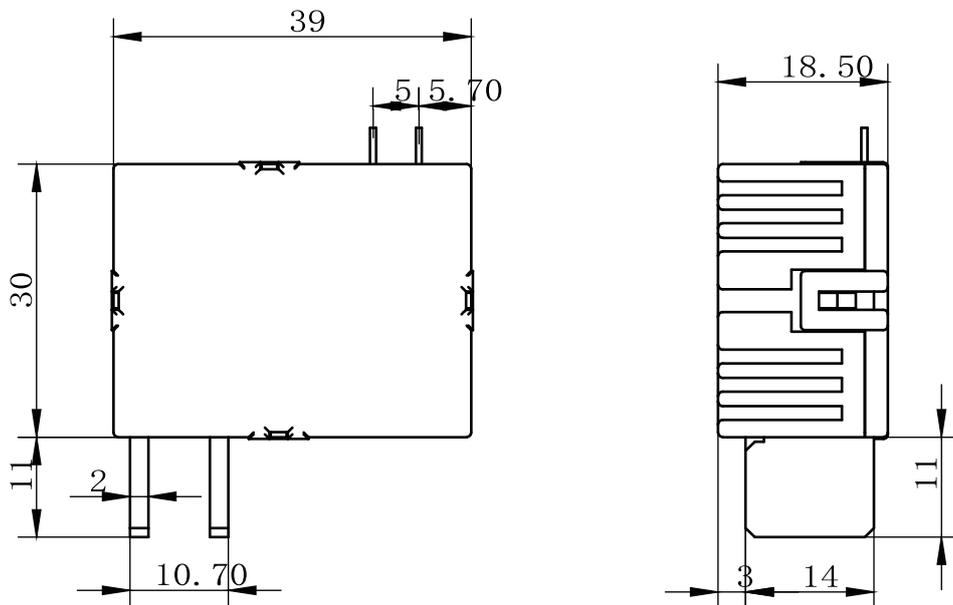
Nominal coil voltage	6Vdc	9Vdc	12Vdc	24Vdc	
Operating Voltage VDC	≤4.2	≤6.3	≤8.4	≤16.8	
Coil Resistance (Ω ± 10%)@23℃	Single coil resistance	18Ω	40.5Ω	72Ω	288Ω
	Dual coil resistance	2 × 9Ω	2 × 20Ω	2 × 36Ω	2 × 144Ω

Order Marks

HJE11E - 100A - 9VDC - S - T



Dimensions (mm)



Application Notes

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- 2、 In order to maintain an “open” or “closed” state of the relay, the coil voltage should reach the rated voltage. The pulse width should be 5 times the operating time to ensure a proper change of state. Do not energize both T1, T2 and T3 at the same time on a dual coil or energize the coil for longer than 1 minute (damage to the coil could incur).
- 3、 Relays have polarity, if the user’s need different from information, should be contact us.
- 4、 The relay to the factory inspection and use should handle to prevent damage effect, to the factory for damaging the goods should be strict distinction between the normal product and must not uses.

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 Email: alio@hj-relay.com URL: www.hj-relay.com

HJE11F-120A

Magnetic Latching Relay

Characteristic Description

- 120A switching capability
- Very minimal power consumption from the coil
- The temperature rise of the relay is low
- 4KV dielectrics strength coil to contact
- IEC-62055-31 UC3 compliant
- Outline dimensions(42×32×21)mm
- RoHS, CQC compliant



■ Contact Data

Rated load(FLA)	120A/250VAC
Contact form	1A & 1B
Contact material	AgSnO ₂
Initial contact resistance	2mΩ (0.1A@6vdc)
Max.switching current	120A
Max.switching voltage	250VAC
Max.switching power	30000VA
Electrical endurance	1x10 ⁴ ops
Mechanical endurance	1x10 ⁶ ops

■ Coil Power

Coil type	Pulse duration	Power consumption
Single	Min.50ms	2W
Dual	Min.50ms	4W

■ Coil Data

Nominal coil voltage	6Vdc	9Vdc	12Vdc	24Vdc	
Operating Voltage VDC	≤4.2	≤6.3	≤8.4	≤16.8	
Coil Resistance (Ω ± 10%)@23°C	Single coil resistance	18Ω	40.5Ω	72Ω	288Ω
	Dual coil resistance	2×9Ω	2×20Ω	2×36Ω	2×144Ω

■ Characteristics

Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Coil to contact	4000VAC 1 min
	Across open contact	2000VAC 1 min
Operate time	Max.20ms	
Release time	Max.20ms	
Shock resistance functional	100m/s ² (10g)	
Shock resistance destructive	1000m/s ² (100g)	
Ambient temperature	-40 ~ 85°C	
Humidity	98%RH, +40°C	
Vibration resistance	10-55Hz, 1.5mm(DA)	
Termination	PCB	
Unit weight	70g	
Construction	Dust protected	

Order Marks

HJE11F - 120A - 9VDC - S - T

Relays Model

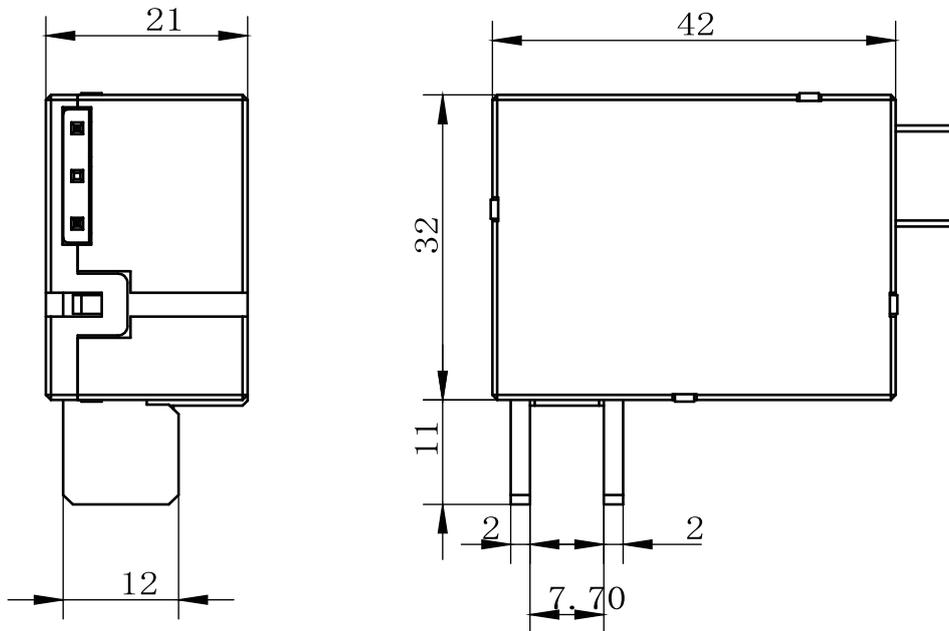
Terminal Type

Coil Voltage: 6/9/12/24VDC

Coil Type: Single Coil / Double Coil

Contact Material: T-AgSnO₂

Dimensions (mm)



Application Notes

- 1、 All relays are shipped in the “closed” position. It is possible that during transit or final assembly the relay could change its state to the “open” position. Therefore, it is recommended that all relays be set to the desired state of the relay via a power supply.
- 2、 In order to maintain an “open” or “closed” state of the relay, the coil voltage should reach the rated voltage. The pulse width should be 5 times the operating time to ensure a proper change of state. Do not energize both T1, T2 and T3 at the same time on a dual coil or energize the coil for longer than 1 minute (damage to the coil could incur).
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HJE11F-M-120A Magnetic Latching Relay

Characteristic Description

- 120A/48VDC switching capability
- Very minimal power consumption from the coil
- Contact Load Maximum Switching DC 110VDC/60A
- 4KV dielectrics strength coil to contact
- Outline dimensions(47.2×33.2×22)mm
- RoHS, CQC compliant



Contact Data

Rated load(FLA)	120A/48VAC
Contact form	1A & 1B
Contact material	AgSnO ₂
Initial contact resistance	2mΩ (0.1A@6vdc)
Max.switching current	120A
Max.switching voltage	110VAC
Max.switching power	5760VA
Electrical endurance	120A/48VDC 10000 times with resistive load 60A/110VDC 5000 times with resistive load
Mechanical endurance	1x10 ⁶ ops

Coil Power

Coil type	Pulse duration	Power consumption
Single	Min.50ms	3W
Dual	Min.50ms	6W

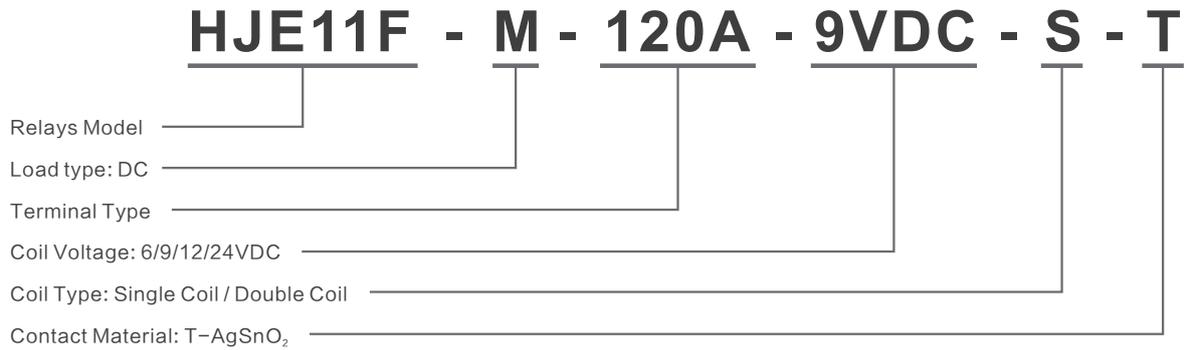
Coil Data

Nominal coil voltage	6Vdc	9Vdc	12Vdc	24Vdc	
Operating Voltage VDC	≤4.2	≤6.3	≤8.4	≤16.8	
Coil Resistance (Ω ± 10%)@23°C	Single coil resistance	12Ω	27Ω	48Ω	192Ω
	Dual coil resistance	2 × 6Ω	2 × 13.5Ω	2 × 24Ω	2 × 96Ω

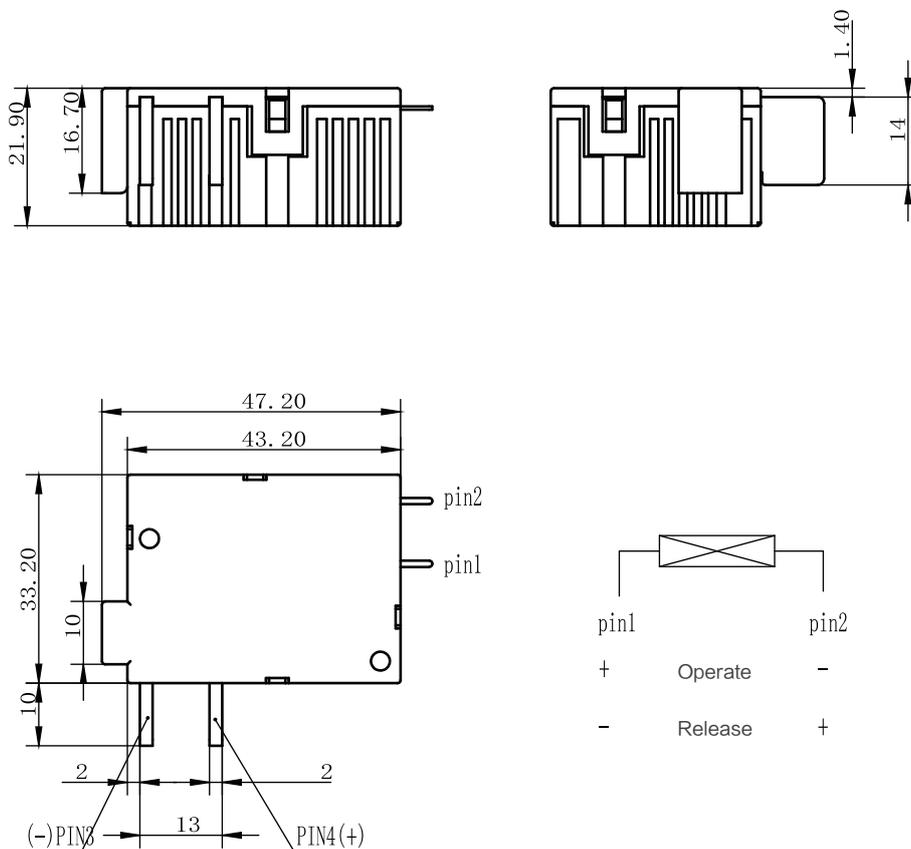
Characteristics

Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Coil to contact	4000VAC 1 min
	Across open contact	2000VAC 1 min
Operate time	Max.20ms	
Release time	Max.20ms	
Shock resistance functional	100m/s ² (10g)	
Shock resistance destructive	1000m/s ² (100g)	
Ambient temperature	-40 ~ 85°C	
Humidity	98%RH, +40°C	
Vibration resistance	10-55Hz, 1.5mm(DA)	
Termination	PCB	
Unit weight	85g	
Construction	Dust protected	

Order Marks



Dimensions (mm)



Application Notes

- 1、 All relays are shipped in the “closed” position. It is possible that during transit or final assembly the relay could change its state to the “open” position. Therefore, it is recommended that all relays be set to the desired state of the relay via a power supply.
- 2、 In order to maintain an “open” or “closed” state of the relay, the coil voltage should reach the rated voltage. The pulse width should be 5 times the operating time to ensure a proper change of state. Do not energize both T1, T2 and T3 at the same time on a dual coil or energize the coil for longer than 1 minute (damage to the coil could incur).
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HJE21A-60A

Magnetic Latching Relay

Characteristic Description

- Two phase two sets of contact with 60A switching capability
- Very minimal power consumption from the coil
- Load lead-out mode: 1 input 4 output, 2 input 3 output
- 4KV dielectrics strength coil to contact
- IEC-62055-31 UC2 compliant
- Outline dimensions(54.65×28×18)mm
- RoHS compliant



Contact Data

Rated load(FLA)	60A/250VAC
Contact form	2A & 2B
Contact material	AgSnO ₂
Initial contact resistance	2mΩ (0.1A@6vdc)
Max.switching current	60A
Max.switching voltage	250VAC
Max.switching power	15000VA
Electrical endurance	1x10 ⁴ ops
Mechanical endurance	1x10 ⁶ ops

Coil Power

Coil type	Pulse duration	Power consumption
Single	Min.50ms	2W
Dual	Min.50ms	4W

Characteristics

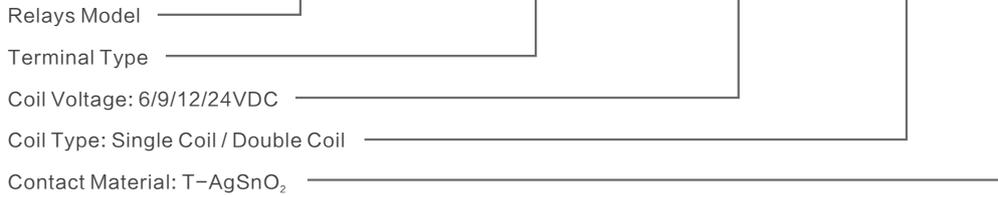
Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Coil to contact	4000VAC 1 min
	Across open contact	2000VAC 1 min
Operate time	Max.20ms	
Release time	Max.20ms	
Shock resistance functional	100m/s ² (10g)	
Shock resistance destructive	1000m/s ² (100g)	
Ambient temperature	-40 ~ 85℃	
Humidity	98%RH, +40℃	
Vibration resistance	10-55Hz, 1.5mm(DA)	
Termination	PCB	
Unit weight	80g	
Construction	Dust protected	

Coil Data

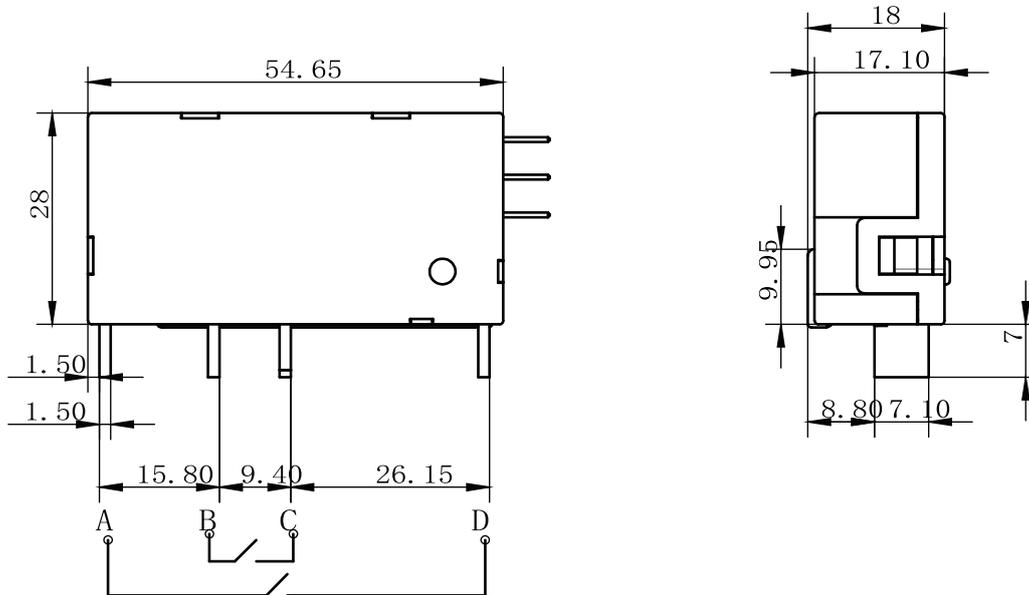
Nominal coil voltage	6Vdc	9Vdc	12Vdc	24Vdc	
Operating Voltage VDC	≤4.2	≤6.3	≤8.4	≤16.8	
Coil Resistance (Ω ± 10%)@23℃	Single coil resistance	18Ω	40Ω	72Ω	288Ω
	Dual coil resistance	2×9Ω	2×20Ω	2×36Ω	2×144Ω

Order Marks

HJE21A - 60A - 9VDC - S - T



Dimensions (mm)



Application Notes

- 1、 All relays are shipped in the “closed” position. It is possible that during transit or final assembly the relay could change its state to the “open” position. Therefore, it is recommended that all relays be set to the desired state of the relay via a power supply.
- 2、 In order to maintain an “open” or “closed” state of the relay, the coil voltage should reach the rated voltage. The pulse width should be 5 times the operating time to ensure a proper change of state. Do not energize both T1, T2 and T3 at the same time on a dual coil or energize the coil for longer than 1 minute (damage to the coil could incur).
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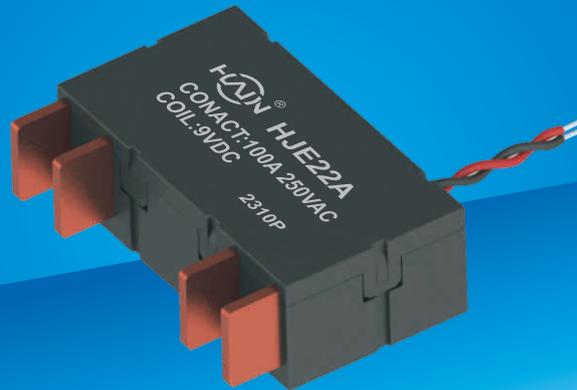
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HJE22A-100A

Magnetic Latching Relay

Characteristic Description

- Two phase two sets of contact with 100A switching capability
- Very minimal power consumption from the coil
- Load lead-out mode: 1 input 2 output, 3 input 4 output
- 4KV dielectrics strength coil to contact
- IEC-62055-31 UC3 compliant
- Outline dimensions (63×34×21)mm
- RoHS compliant



Contact Data

Rated load(FLA)	100A/250VAC
Contact form	2A & 2B
Contact material	AgSnO ₂
Initial contact resistance	2mΩ (0.1A@6vdc)
Max.switching current	100A
Max.switching voltage	250VAC
Max.switching power	25000VA
Electrical endurance	1x10 ⁴ ops
Mechanical endurance	1x10 ⁶ ops

Coil Power

Coil type	Pulse duration	Power consumption
Single	Min.50ms	3W
Dual	Min.50ms	6W

Characteristics

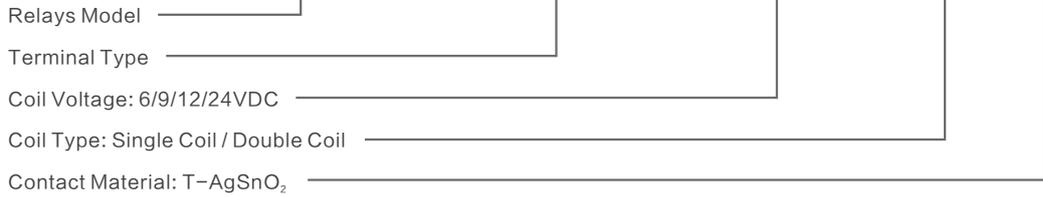
Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Coil to contact	4000VAC 1 min
	Across open contact	2000VAC 1 min
Operate time	Max.20ms	
Release time	Max.20ms	
Shock resistance functional	100m/s ² (10g)	
Shock resistance destructive	1000m/s ² (100g)	
Ambient temperature	-40 ~ 85°C	
Humidity	98%RH, +40°C	
Vibration resistance	10-55Hz, 1.5mm(DA)	
Termination	PCB	
Unit weight	110g	
Construction	Dust protected	

Coil Data

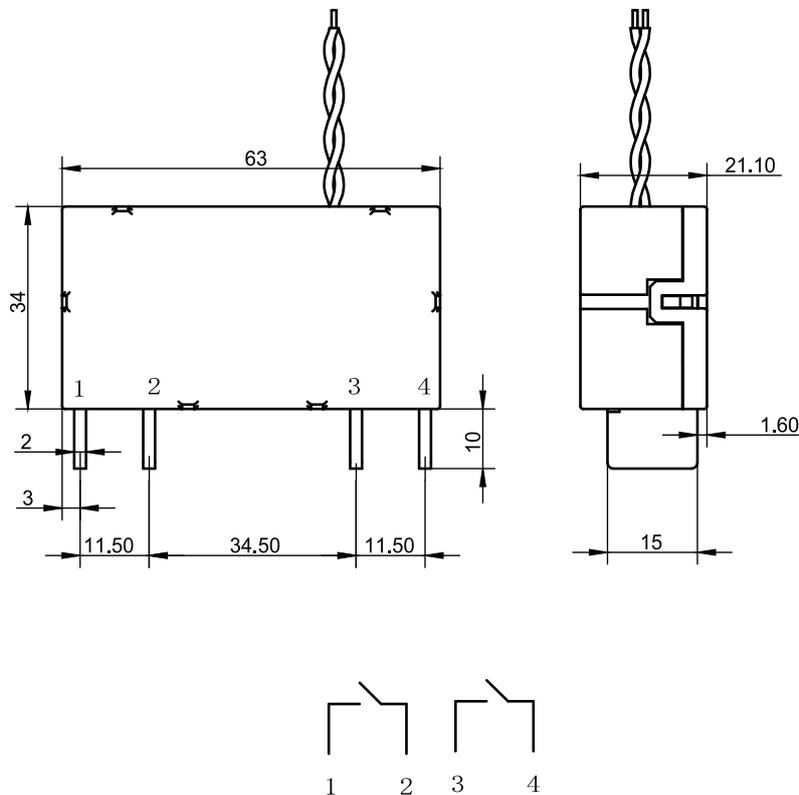
Nominal coil voltage	6Vdc	9Vdc	12Vdc	24Vdc	
Operating Voltage VDC	≤4.2	≤6.3	≤8.4	≤16.8	
Coil Resistance (Ω ± 10%)@23°C	Single coil resistance	12Ω	27Ω	48Ω	192Ω
	Dual coil resistance	2×6Ω	2×13.5Ω	2×24Ω	2×96Ω

Order Marks

HJE22A - 100A - 9VDC - S - T



Dimensions (mm)



Application Notes

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HJE23A-80A

Magnetic Latching Relay

Characteristic Description

- Two phase two sets of contact with 80A switching capability
- Very minimal power consumption from the coil
- Load lead-out mode: 1 input 2 output, 3 input 4 output
- 4KV dielectrics strength coil to contact
- IEC-62055-31 UC2 compliant
- Outline dimensions (54.5 × 30.3 × 17.6)mm
- RoHS compliant



Contact Data

Rated load(FLA)	80A/250VAC
Contact form	2A & 2B
Contact material	AgSnO ₂
Initial contact resistance	2mΩ (0.1A@6vdc)
Max.switching current	80A
Max.switching voltage	250VAC
Max.switching power	20000VA
Electrical endurance	1x10 ⁴ ops
Mechanical endurance	1x10 ⁶ ops

Coil Power

Coil type	Pulse duration	Power consumption
Single	Min.50ms	2.5W
Dual	Min.50ms	5W

Characteristics

Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Coil to contact	4000VAC 1 min
	Across open contact	2000VAC 1 min
Operate time	Max.20ms	
Release time	Max.20ms	
Shock resistance functional	100m/s ² (10g)	
Shock resistance destructive	1000m/s ² (100g)	
Ambient temperature	-40 ~ 85°C	
Humidity	98%RH, +40°C	
Vibration resistance	10-55Hz, 1.5mm(DA)	
Termination	PCB	
Unit weight	85g	
Construction	Dust protected	

Coil Data

Nominal coil voltage	6Vdc	9Vdc	12Vdc	24Vdc	
Operating Voltage VDC	≤4.2	≤6.3	≤8.4	≤16.8	
Coil Resistance (Ω ± 10%)@23°C	Single coil resistance	14.4Ω	32.4Ω	57.6Ω	230Ω
	Dual coil resistance	2 × 7.2Ω	2 × 16.2Ω	2 × 28.8Ω	2 × 155Ω

Order Marks

HJE23A - 80A - 9VDC - S - T

Relays Model

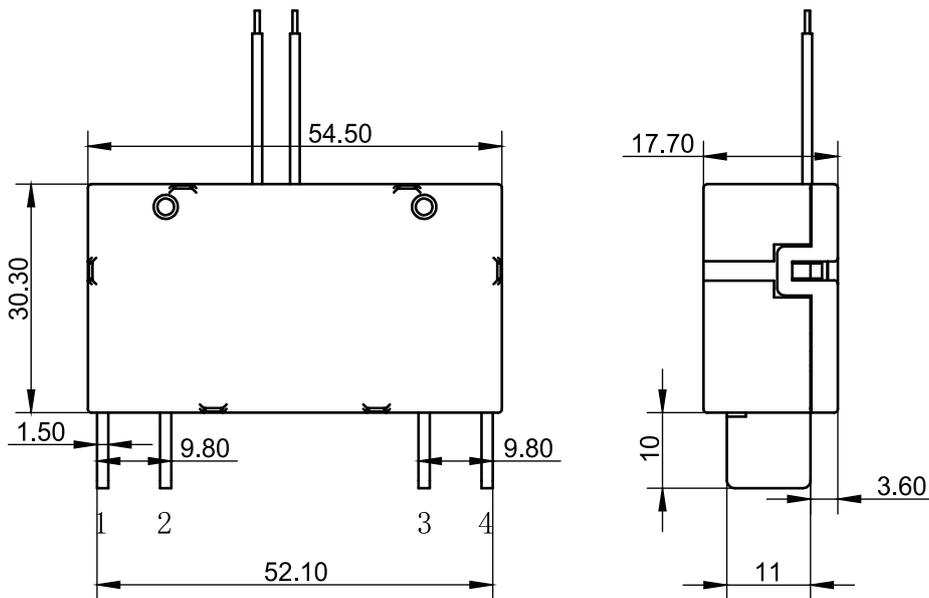
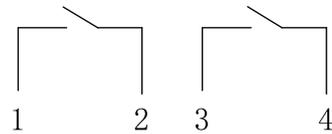
Terminal Type

Coil Voltage: 6/9/12/24VDC

Coil Type: Single Coil / Double Coil

Contact Material: T-AgSnO₂

Dimensions (mm)



Application Notes

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HJE24A-100A

Magnetic Latching Relay

Characteristic Description

- Two phase two sets of contact with 100A switching capability
- Very minimal power consumption from the coil
- Load lead-out mode: 1 input 2 output, 3 input 4 output
- 4KV dielectrics strength coil to contact
- IEC-62055-31 UC3 compliant
- Outline dimensions (42.8 × 33 × 34.2)mm
- RoHS compliant



Contact Data

Rated load(FLA)	100A/250VAC
Contact form	2A & 2B
Contact material	AgSnO ₂
Initial contact resistance	2mΩ (0.1A@6vdc)
Max.switching current	100A
Max.switching voltage	250VAC
Max.switching power	25000VA
Electrical endurance	1x10 ⁴ ops
Mechanical endurance	1x10 ⁶ ops

Coil Power

Coil type	Pulse duration	Power consumption
Single	Min.50ms	3W
Dual	Min.50ms	6W

Characteristics

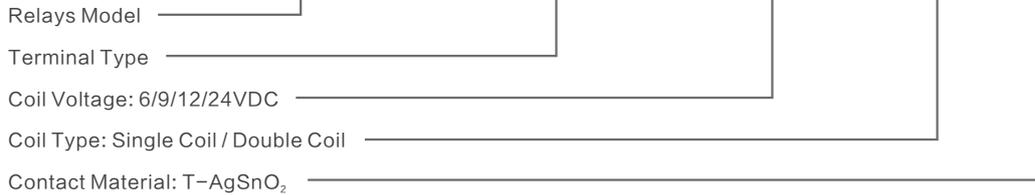
Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Coil to contact	4000VAC 1 min
	Across open contact	2000VAC 1 min
Operate time	Max.20ms	
Release time	Max.20ms	
Shock resistance functional	100m/s ² (10g)	
Shock resistance destructive	1000m/s ² (100g)	
Ambient temperature	-40 ~ 85°C	
Humidity	98%RH, +40°C	
Vibration resistance	10-55Hz, 1.5mm(DA)	
Termination	PCB	
Unit weight	110g	
Construction	Dust protected	

Coil Data

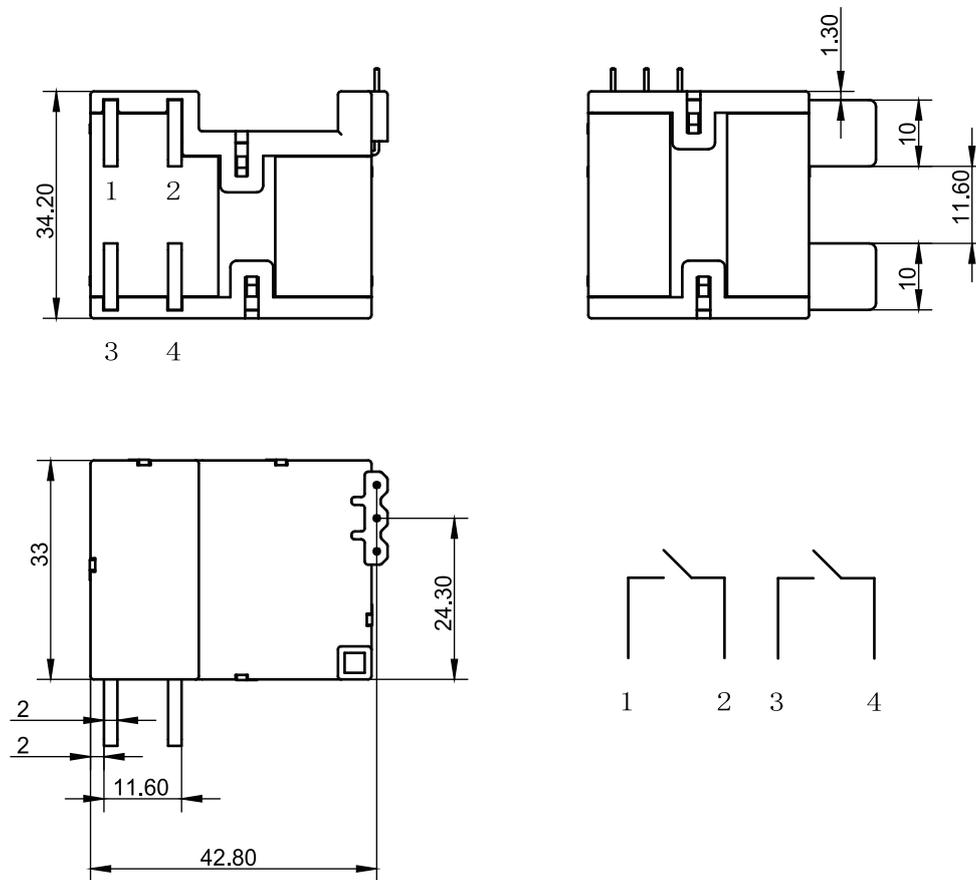
Nominal coil voltage	6Vdc	9Vdc	12Vdc	24Vdc	
Operating Voltage VDC	≤4.2	≤6.3	≤8.4	≤16.8	
Coil Resistance (Ω ± 10%)@23°C	Single coil resistance	12Ω	27Ω	48Ω	192Ω
	Dual coil resistance	2 × 6Ω	2 × 13.5Ω	2 × 24Ω	2 × 96Ω

Order Marks

HJE24A - 100A - 9VDC - S - T



Dimensions (mm)



Application Notes

- 1、 All relays are shipped in the “closed” position. It is possible that during transit or final assembly the relay could change its state to the “open” position. Therefore, it is recommended that all relays be set to the desired state of the relay via a power supply.
- 2、 In order to maintain an “open” or “closed” state of the relay, the coil voltage should reach the rated voltage. The pulse width should be 5 times the operating time to ensure a proper change of state. Do not energize both T1, T2 and T3 at the same time on a dual coil or energize the coil for longer than 1 minute (damage to the coil could incur).
- 3、 Relays have polarity, if the user’s need different from information, should be contact us.
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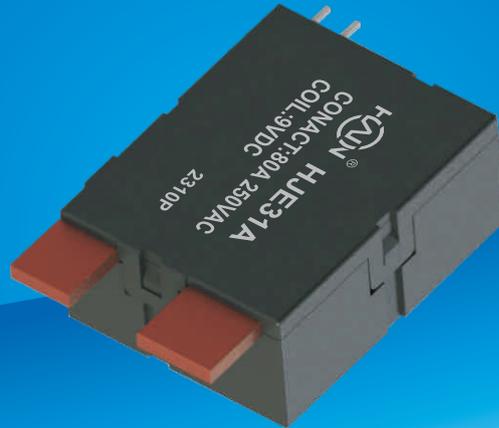
Email: alio@hj-relay.com URL: www.hj-relay.com

HJE31A-80A

Magnetic Latching Relay

Characteristic Description

- 80A switching capability
- Very minimal power consumption from the coil
- 4KV dielectrics strength coil to contact
- IEC-62055-31 UC2 compliant
- Outline dimensions(38.5×30×16.5)mm
- RoHS, CQC compliant



Contact Data

Rated load(FLA)	80A/250VAC
Contact form	1A & 1B
Contact material	AgSnO ₂
Initial contact resistance	2mΩ (0.1A@6vdc)
Max.switching current	80A
Max.switching voltage	250VAC
Max.switching power	20000VA
Electrical endurance	1x10 ⁴ ops
Mechanical endurance	1x10 ⁶ ops

Coil Power

Coil type	Pulse duration	Power consumption
Single	Min.50ms	1W
Dual	Min.50ms	2W

Coil Data

Nominal coil voltage	6Vdc	9Vdc	12Vdc	24Vdc	
Operating Voltage VDC	≤4.2	≤6.3	≤8.4	≤16.8	
Coil Resistance (Ω ± 10%)@23°C	Single coil resistance	36Ω	80Ω	144Ω	576Ω
	Dual coil resistance	2×18Ω	2×40Ω	2×72Ω	2×288Ω

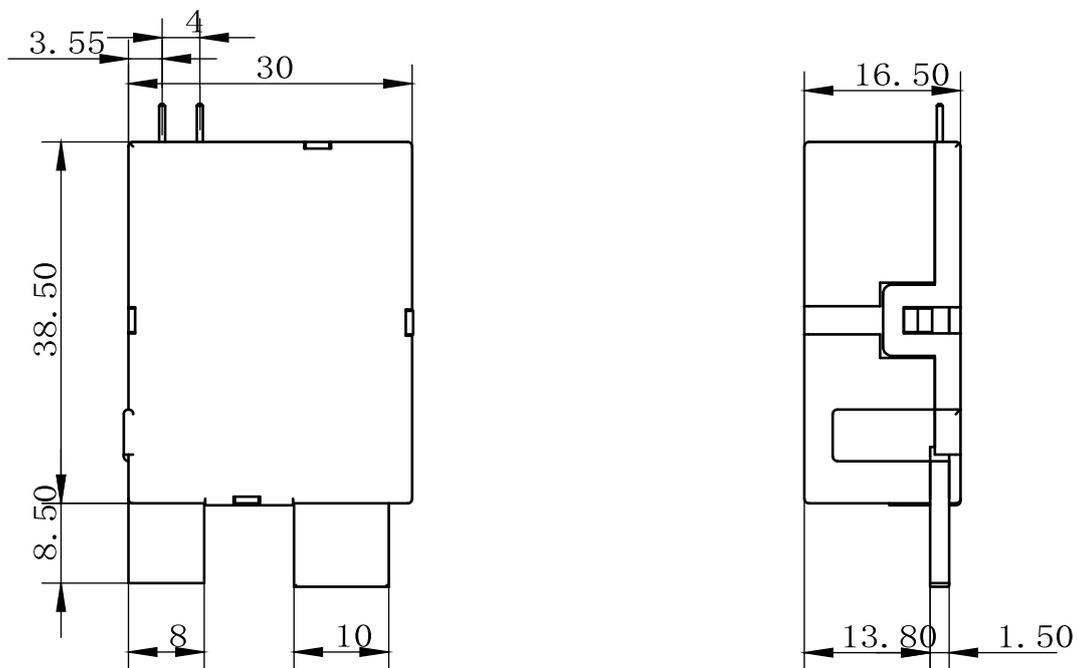
Characteristics

Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Coil to contact	4000VAC 1 min
	Across open contact	2000VAC 1 min
Operate time	Max.20ms	
Release time	Max.20ms	
Shock resistance functional	100m/s ² (10g)	
Shock resistance destructive	1000m/s ² (100g)	
Ambient temperature	-40 ~ 85°C	
Humidity	98%RH, +40°C	
Vibration resistance	10-55Hz, 1.5mm(DA)	
Termination	PCB	
Unit weight	40g	
Construction	Dust protected	

Order Marks



Dimensions (mm)



Application Notes

- 1、 All relays are shipped in the “closed” position. It is possible that during transit or final assembly the relay could change its state to the “open” position. Therefore, it is recommended that all relays be set to the desired state of the relay via a power supply.
- 2、 In order to maintain an “open” or “closed” state of the relay, the coil voltage should reach the rated voltage. The pulse width should be 5 times the operating time to ensure a proper change of state. Do not energize both T1, T2 and T3 at the same time on a dual coil or energize the coil for longer than 1 minute (damage to the coil could incur).
- 3、 Relays have polarity, if the user’s need different from information, should be contact us.
- 4、 The relay to the factory inspection and use should handle to prevent damage effect, to the factory for damaging the goods should be strict distinction between the normal product and must not uses.

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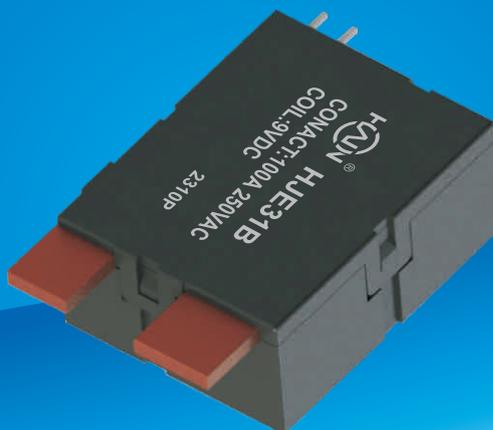
Email: alio@hj-relay.com URL: www.hj-relay.com

HJE31B-100A

Magnetic Latching Relay

Characteristic Description

- 100A switching capability
- Very minimal power consumption from the coil
- 4KV dielectrics strength coil to contact
- IEC-62055-31 UC2 compliant
- Outline dimensions(38.5×30×16.5)mm
- RoHS, CQC compliant



■ Contact Data

Rated load(FLA)	100A/250VAC
Contact form	1A & 1B
Contact material	AgSnO ₂
Initial contact resistance	2mΩ (0.1A@6vdc)
Max.switching current	100A
Max.switching voltage	250VAC
Max.switching power	20000VA
Electrical endurance	6x10 ³ ops
Mechanical endurance	1x10 ⁶ ops

■ Coil Power

Coil type	Pulse duration	Power consumption
Single	Min.50ms	1W
Dual	Min.50ms	2W

■ Coil Data

Nominal coil voltage	6Vdc	9Vdc	12Vdc	24Vdc	
Operating Voltage VDC	≤4.2	≤6.3	≤8.4	≤16.8	
Coil Resistance (Ω ± 10%)@23°C	Single coil resistance	36Ω	80Ω	144Ω	576Ω
	Dual coil resistance	2×18Ω	2×40Ω	2×72Ω	2×288Ω

■ Characteristics

Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Coil to contact	4000VAC 1 min
	Across open contact	2000VAC 1 min
Operate time	Max.20ms	
Release time	Max.20ms	
Shock resistance functional	100m/s ² (10g)	
Shock resistance destructive	1000m/s ² (100g)	
Ambient temperature	-40 ~ 85°C	
Humidity	98%RH, +40°C	
Vibration resistance	10-55Hz, 1.5mm(DA)	
Termination	PCB	
Unit weight	45g	
Construction	Dust protected	

Order Marks

HJE31B - 100A - 9VDC - S - T

Relays Model

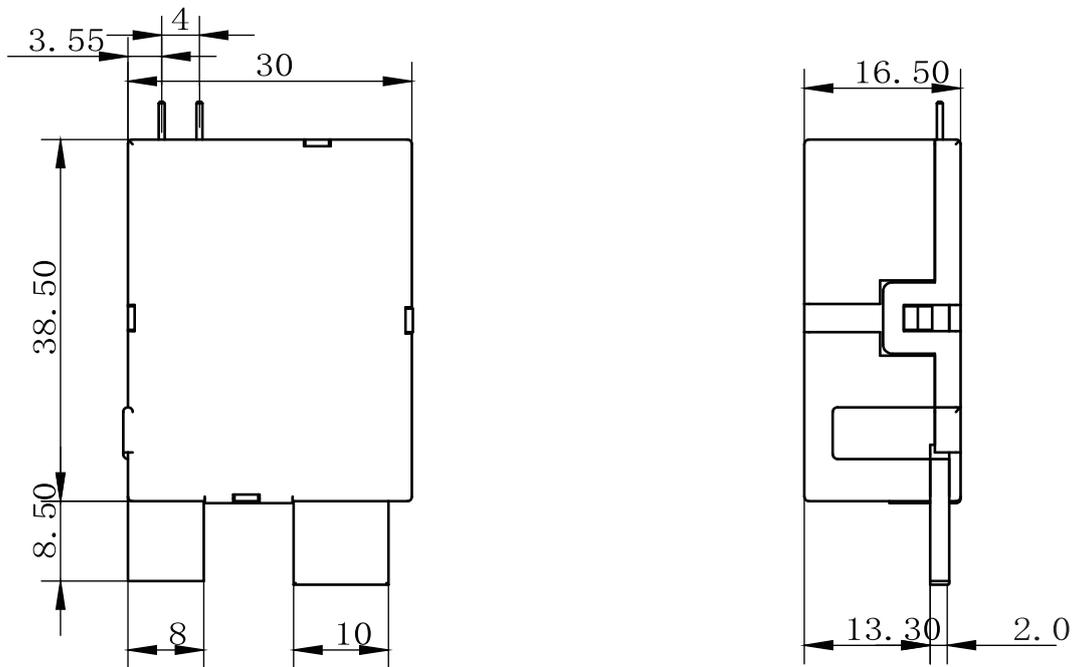
Terminal Type

Coil Voltage: 6/9/12/24VDC

Coil Type: Single Coil / Double Coil

Contact Material: T-AgSnO₂

Dimensions (mm)



Application Notes

- 1、 All relays are shipped in the “closed” position. It is possible that during transit or final assembly the relay could change its state to the “open” position. Therefore, it is recommended that all relays be set to the desired state of the relay via a power supply.
- 2、 In order to maintain an “open” or “closed” state of the relay, the coil voltage should reach the rated voltage. The pulse width should be 5 times the operating time to ensure a proper change of state. Do not energize both T1, T2 and T3 at the same time on a dual coil or energize the coil for longer than 1 minute (damage to the coil could incur).
- 3、 Relays have polarity, if the user’s need different from information, should be contact us.
- 4、 The relay to the factory inspection and use should handle to prevent damage effect, to the factory for damaging the goods should be strict distinction between the normal product and must not uses.

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HJE32A-100A

Magnetic Latching Relay

Characteristic Description

- Three Phase / Three sets contacts with 100A switching capability
- Applied to three phase DIN rail meter for input and output at bottom
- Load lead-out mode: 1 input 2 output, 3 input 4 output, 5 input 6 output
- 4KV dielectrics strength coil to contact
- IEC-62055-31 UC3 compliant
- Outline dimensions(96.8 × 35.5 × 18.8)mm
- Optional with auxiliary switch
- RoHS compliant



Contact Data

Rated load(FLA)	100A/250VAC
Contact form	3A & 3B
Contact material	AgSnO ₂
Initial contact resistance	2mΩ (0.1A@6vdc)
Max.switching current	100A
Max.switching voltage	250VAC
Max.switching power	25000VA
Electrical endurance	1x10 ⁴ ops
Mechanical endurance	1x10 ⁶ ops

Coil Power

Coil type	Pulse duration	Power consumption
Single	Min.50ms	3W
Dual	Min.50ms	6W

Characteristics

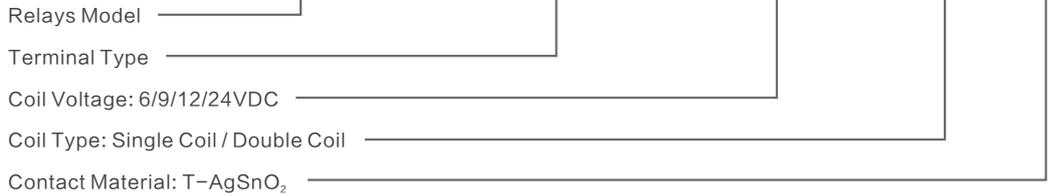
Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Coil to contact	4000VAC 1 min
	Across open contact	2000VAC 1 min
Operate time	Max.20ms	
Release time	Max.20ms	
Shock resistance functional	100m/s ² (10g)	
Shock resistance destructive	1000m/s ² (100g)	
Ambient temperature	-40 ~ 85°C	
Humidity	98%RH, +40°C	
Vibration resistance	10-55Hz, 1.5mm(DA)	
Termination	PCB	
Unit weight	150g	
Construction	Dust protected	

Coil Data

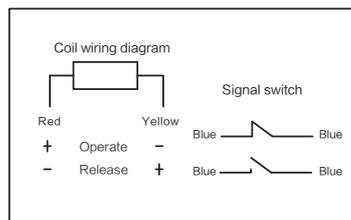
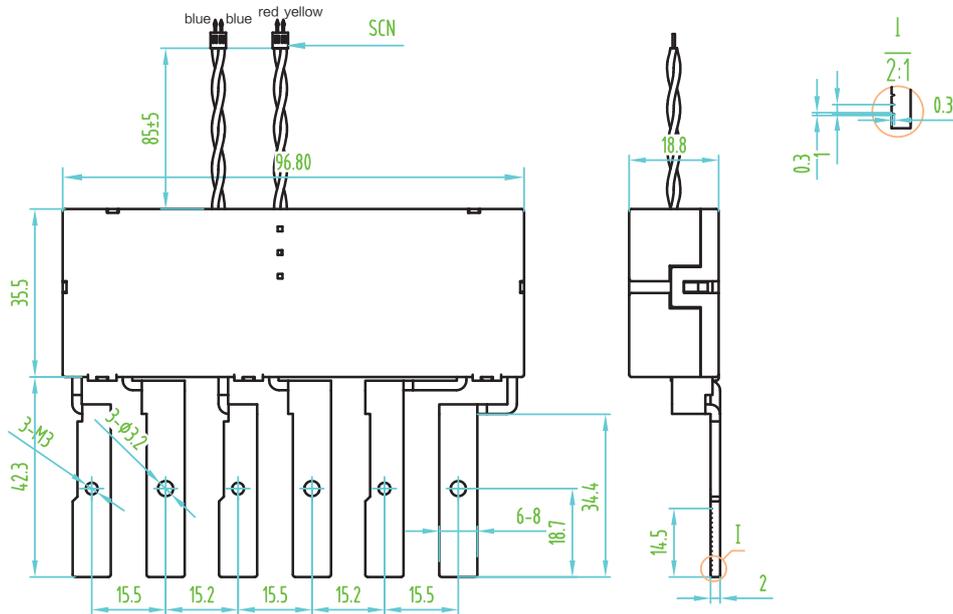
Nominal coil voltage	6Vdc	9Vdc	12Vdc	24Vdc	
Operating Voltage VDC	≤4.2	≤6.3	≤8.4	≤16.8	
Coil Resistance (Ω ± 10%)@23°C	Single coil resistance	12Ω	27Ω	48Ω	192Ω
	Dual coil resistance	2 × 6Ω	2 × 13.5Ω	2 × 24Ω	2 × 96Ω

Order Marks

HJE32A - 100A - 9VDC - S - T



Dimensions (mm)



Application Notes

- All relays are shipped in the "closed" position. It is possible that during transit or final assembly the relay could change its state to the "open" position. Therefore, it is recommended that all relays be set to the desired state of the relay via a power supply.
- In order to maintain an "open" or "closed" state of the relay, the coil voltage should reach the rated voltage. The pulse width should be 5 times the operating time to ensure a proper change of state. Do not energize both T1, T2 and T3 at the same time on a dual coil or energize the coil for longer than 1 minute (damage to the coil could incur).
- Relays have polarity, if the user's need different from information, should be contact us.
- The relay to the factory inspection and use should handle to prevent damage effect, to the factory for damaging the goods should be strict distinction between the normal product and must not uses.

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HJE33A-80A

Magnetic Latching Relay

Characteristic Description

- Three Phase / Three sets contacts with 80A switching capability
- Applied to three phase energy meter of State Grid
- Load lead-out mode: 1 input 2 output, 3 input 4 output, 5 input 6 output
- 4KV dielectrics strength coil to contact
- IEC-62055-31 UC2 compliant
- Outline dimensions(96 × 40 × 34)mm
- Optional with auxiliary switch
- RoHS compliant



■ Contact Data

Rated load(FLA)	80A/250VAC
Contact form	3A & 3B
Contact material	AgSnO ₂
Initial contact resistance	2mΩ (0.1A@6vdc)
Max.switching current	80A
Max.switching voltage	250VAC
Max.switching power	20000VA
Electrical endurance	1x10 ⁴ ops
Mechanical endurance	1x10 ⁶ ops

■ Coil Power

Coil type	Pulse duration	Power consumption
Single	Min.50ms	3W
Dual	Min.50ms	6W

■ Coil Data

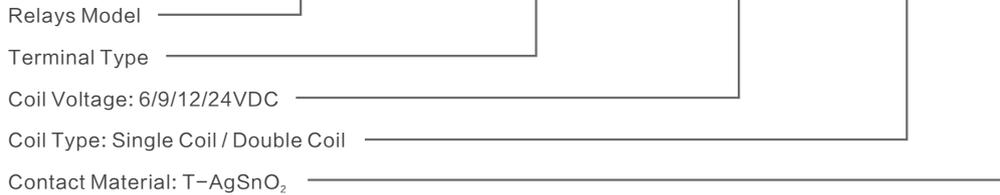
Nominal coil voltage	6Vdc	9Vdc	12Vdc	24Vdc	
Operating Voltage VDC	≤4.2	≤6.3	≤8.4	≤16.8	
Coil Resistance (Ω ± 10%)@23°C	Single coil resistance	12Ω	27Ω	48Ω	192Ω
	Dual coil resistance	2 × 6Ω	2 × 13.5Ω	2 × 24Ω	2 × 96Ω

■ Characteristics

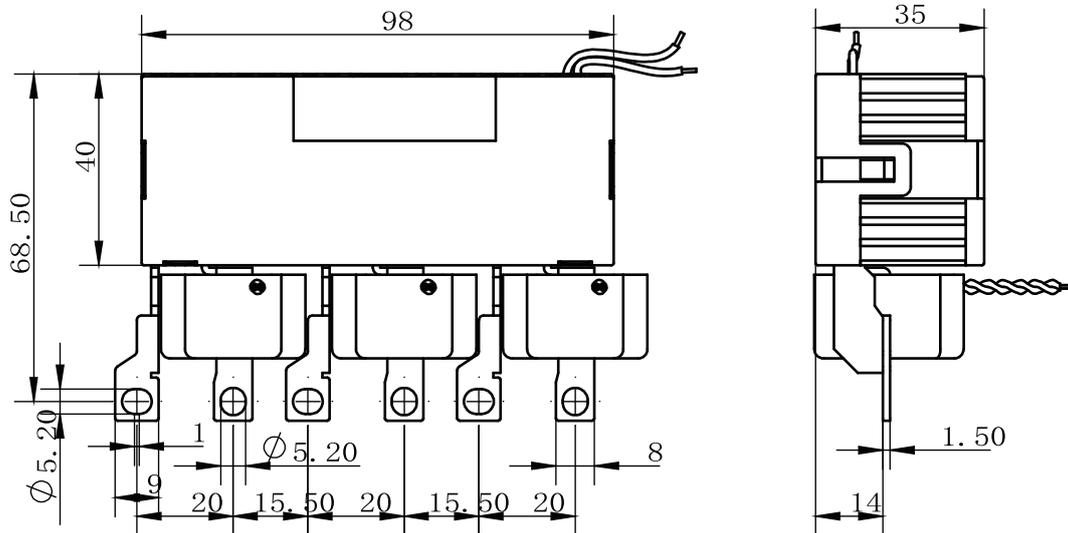
Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Coil to contact	4000VAC 1 min
	Across open contact	2000VAC 1 min
Operate time	Max.20ms	
Release time	Max.20ms	
Shock resistance functional	100m/s ² (10g)	
Shock resistance destructive	1000m/s ² (100g)	
Ambient temperature	-40 ~ 85°C	
Humidity	98%RH, +40°C	
Vibration resistance	10-55Hz, 1.5mm(DA)	
Termination	PCB	
Unit weight	130g	
Construction	Dust protected	

Order Marks

HJE33A - 80A - 9VDC - S - T



Dimensions (mm)



Application Notes

- 1、 All relays are shipped in the “closed” position. It is possible that during transit or final assembly the relay could change its state to the “open” position. Therefore, it is recommended that all relays be set to the desired state of the relay via a power supply.
- 2、 In order to maintain an “open” or “closed” state of the relay, the coil voltage should reach the rated voltage. The pulse width should be 5 times the operating time to ensure a proper change of state. Do not energize both T1, T2 and T3 at the same time on a dual coil or energize the coil for longer than 1 minute (damage to the coil could incur).
- 3、 Relays have polarity, if the user's need different from information, should be contact us.
- 4、 The relay to the factory inspection and use should handle to prevent damage effect, to the factory for damaging the goods should be strict distinction between the normal product and must not uses.

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HJE33B-120A

Magnetic Latching Relay

Characteristic Description

- Three Phase / Three sets contacts with 120A switching capability
- Applied to three phase energy meter for input and output at bottom
- Load lead-out mode: 1 input 2 output, 3 input 4 output, 5 input 6 output
- 4KV dielectrics strength coil to contact
- IEC-62055-31 UC3 compliant
- Outline dimensions (98.2 × 40 × 38)mm
- Optional with auxiliary switch
- RoHS compliant



■ Contact Data

Rated load(FLA)	120A/250VAC
Contact form	3A & 3B
Contact material	AgSnO ₂
Initial contact resistance	2mΩ (0.1A@6vdc)
Max.switching current	120A
Max.switching voltage	250VAC
Max.switching power	30000VA
Electrical endurance	1x10 ⁴ ops
Mechanical endurance	1x10 ⁶ ops

■ Coil Power

Coil type	Pulse duration	Power consumption
Single	Min.50ms	3W
Dual	Min.50ms	6W

■ Characteristics

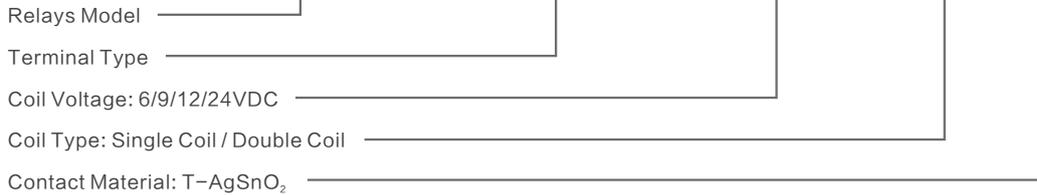
Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Coil to contact	4000VAC 1 min
	Across open contact	2000VAC 1 min
Operate time	Max.20ms	
Release time	Max.20ms	
Shock resistance functional	100m/s ² (10g)	
Shock resistance destructive	1000m/s ² (100g)	
Ambient temperature	-40 ~ 85°C	
Humidity	98%RH, +40°C	
Vibration resistance	10-55Hz, 1.5mm(DA)	
Termination	PCB	
Unit weight	180g	
Construction	Dust protected	

■ Coil Data

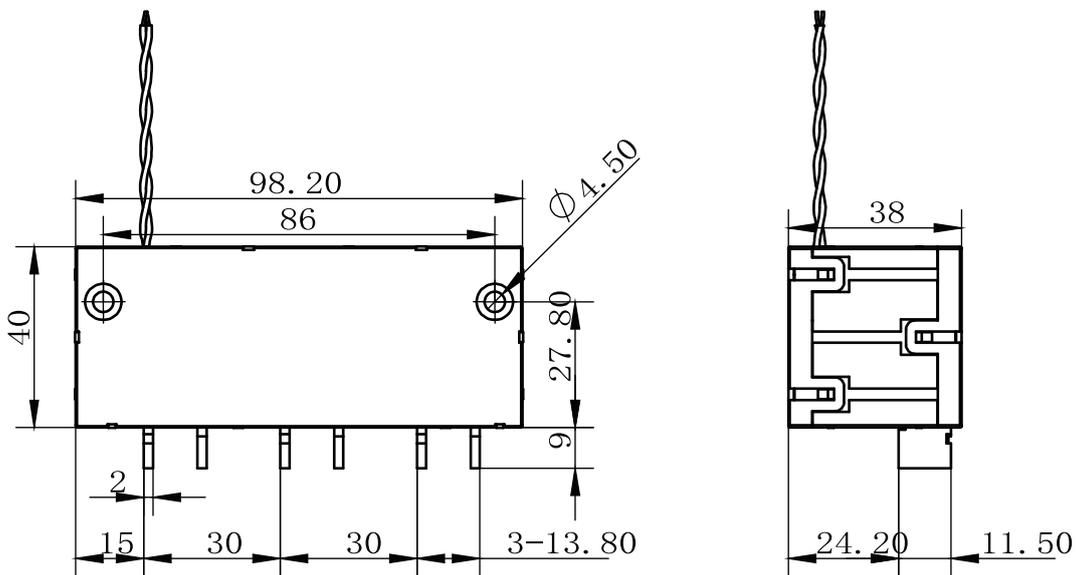
Nominal coil voltage	6Vdc	9Vdc	12Vdc	24Vdc	
Operating Voltage VDC	≤4.2	≤6.3	≤8.4	≤16.8	
Coil Resistance (Ω ± 10%)@23°C	Single coil resistance	12Ω	27Ω	48Ω	192Ω
	Dual coil resistance	2 × 6Ω	2 × 13.5Ω	2 × 24Ω	2 × 96Ω

Order Marks

HJE33B - 120A - 9VDC - S - T



Dimensions (mm)



Application Notes

- 1、 All relays are shipped in the “closed” position. It is possible that during transit or final assembly the relay could change its state to the “open” position. Therefore, it is recommended that all relays be set to the desired state of the relay via a power supply.
- 2、 In order to maintain an “open” or “closed” state of the relay, the coil voltage should reach the rated voltage. The pulse width should be 5 times the operating time to ensure a proper change of state. Do not energize both T1, T2 and T3 at the same time on a dual coil or energize the coil for longer than 1 minute (damage to the coil could incur).
- 3、 Relays have polarity, if the user’s need different from information, should be contact us.
- 4、 The relay to the factory inspection and use should handle to prevent damage effect, to the factory for damaging the goods should be strict distinction between the normal product and must not uses.

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HJE33C-120A

Magnetic Latching Relay

Characteristic Description

- Three Phase / Three sets contacts with 120A switching capability
- Applied to three phase energy meter for input and output at bottom
- Load lead-out mode: 1 input 2 output, 3 input 4 output, 5 input 6 output
- 4KV dielectrics strength coil to contact
- IEC-62055-31 UC3 compliant
- Outline dimensions (110×52×24.1)mm
- Optional with auxiliary switch
- RoHS compliant



■ Contact Data

Rated load(FLA)	120A/250VAC
Contact form	3A & 3B
Contact material	AgSnO ₂
Initial contact resistance	2mΩ (0.1A@6vdc)
Max.switching current	120A
Max.switching voltage	250VAC
Max.switching power	30000VA
Electrical endurance	1x10 ⁴ ops
Mechanical endurance	1x10 ⁶ ops

■ Coil Power

Coil type	Pulse duration	Power consumption
Single	Min.50ms	3W
Dual	Min.50ms	6W

■ Characteristics

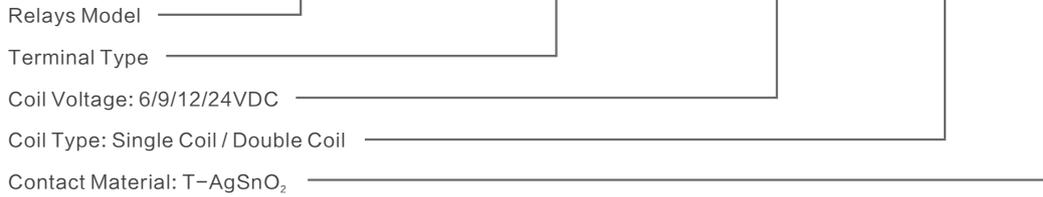
Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Coil to contact	4000VAC 1 min
	Across open contact	2000VAC 1 min
Operate time	Max.20ms	
Release time	Max.20ms	
Shock resistance functional	100m/s ² (10g)	
Shock resistance destructive	1000m/s ² (100g)	
Ambient temperature	-40 ~ 85℃	
Humidity	98%RH, +40℃	
Vibration resistance	10-55Hz, 1.5mm(DA)	
Termination	PCB	
Unit weight	180g	
Construction	Dust protected	

■ Coil Data

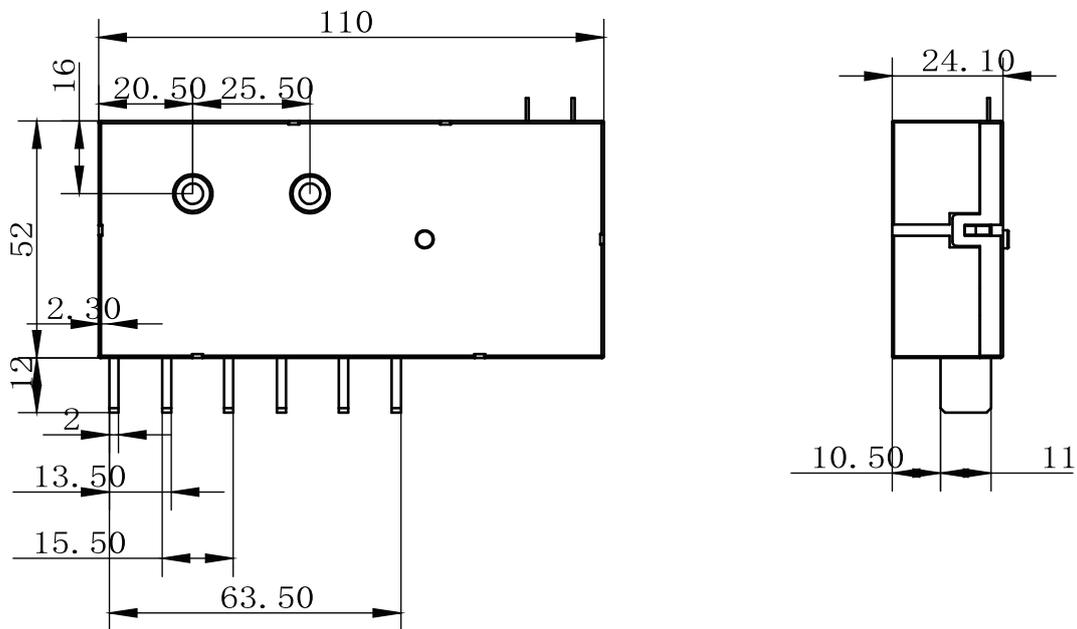
Nominal coil voltage	6Vdc	9Vdc	12Vdc	24Vdc	
Operating Voltage VDC	≤4.2	≤6.3	≤8.4	≤16.8	
Coil Resistance (Ω ± 10%)@23℃	Single coil resistance	12Ω	27Ω	48Ω	192Ω
	Dual coil resistance	2 × 6Ω	2 × 13.5Ω	2 × 24Ω	2 × 96Ω

Order Marks

HJE33C - 120A - 9VDC - S - T



Dimensions (mm)



Application Notes

- 1、 All relays are shipped in the “closed” position. It is possible that during transit or final assembly the relay could change its state to the “open” position. Therefore, it is recommended that all relays be set to the desired state of the relay via a power supply.
- 2、 In order to maintain an “open” or “closed” state of the relay, the coil voltage should reach the rated voltage. The pulse width should be 5 times the operating time to ensure a proper change of state. Do not energize both T1, T2 and T3 at the same time on a dual coil or energize the coil for longer than 1 minute (damage to the coil could incur).
- 3、 Relays have polarity, if the user's need differs from information, should be contact us.
- 4、 The relay to the factory inspection and use should handle to prevent damage effect, to the factory for damaging the goods should be strict distinction between the normal product and must not uses.

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HJE34A-80A

Magnetic Latching Relay

Characteristic Description

- Three Phase / Three sets contacts with 80A switching capability
- Applied to three phase DIN rail meter for input at top and output at bottom
- Load lead-out mode: 1 input 2 output, 3 input 4 output, 5 input 6 output
- 4KV dielectrics strength coil to contact
- IEC-62055-31 UC2 compliant
- Outline dimensions (63.5 × 29 × 28.8)mm
- Optional with auxiliary switch
- RoHS compliant



Contact Data

Rated load(FLA)	80A/250VAC
Contact form	3A & 3B
Contact material	AgSnO ₂
Initial contact resistance	2mΩ (0.1A@6vdc)
Max.switching current	80A
Max.switching voltage	250VAC
Max.switching power	20000VA
Electrical endurance	1x10 ⁴ ops
Mechanical endurance	1x10 ⁶ ops

Coil Power

Coil type	Pulse duration	Power consumption
Single	Min.50ms	3W
Dual	Min.50ms	6W

Characteristics

Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Coil to contact	4000VAC 1 min
	Across open contact	2000VAC 1 min
Operate time	Max.20ms	
Release time	Max.20ms	
Shock resistance functional	100m/s ² (10g)	
Shock resistance destructive	1000m/s ² (100g)	
Ambient temperature	-40 ~ 85°C	
Humidity	98%RH, +40°C	
Vibration resistance	10-55Hz, 1.5mm(DA)	
Termination	PCB	
Unit weight	110g	
Construction	Dust protected	

Coil Data

Nominal coil voltage	6Vdc	9Vdc	12Vdc	24Vdc	
Operating Voltage VDC	≤4.2	≤6.3	≤8.4	≤16.8	
Coil Resistance (Ω ± 10%)@23°C	Single coil resistance	12Ω	27Ω	48Ω	192Ω
	Dual coil resistance	2 × 6Ω	2 × 13.5Ω	2 × 24Ω	2 × 96Ω

Order Marks

HJE34A - 80A - 9VDC - S - T

Relays Model

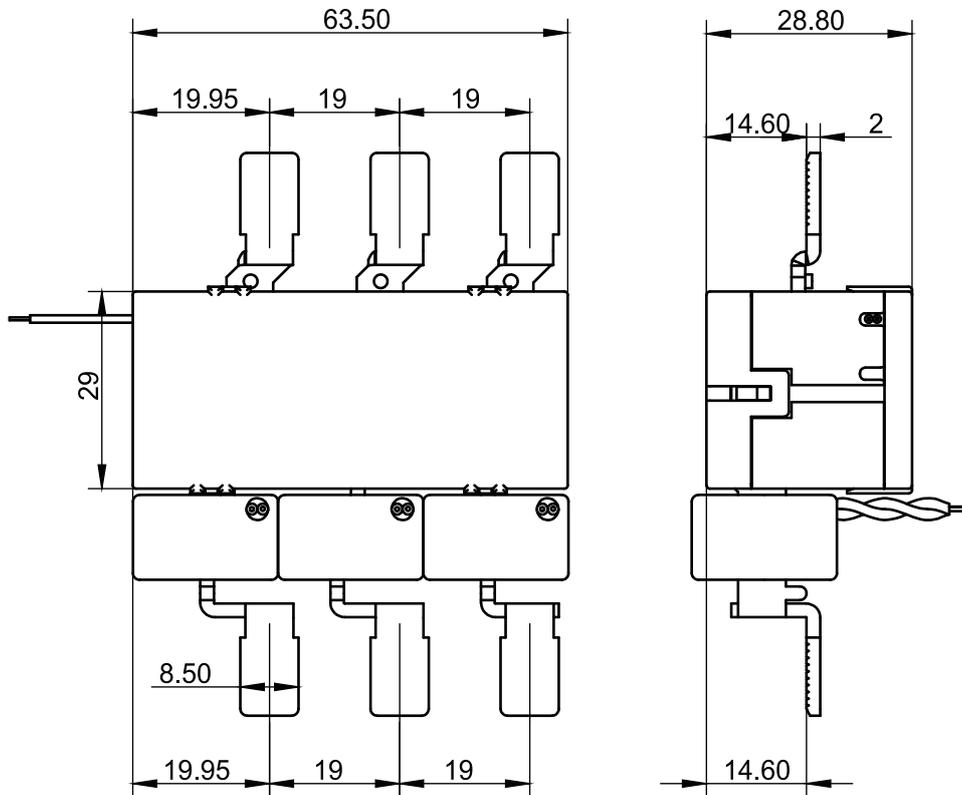
Terminal Type

Coil Voltage: 6/9/12/24VDC

Coil Type: Single Coil / Double Coil

Contact Material: T-AgSnO₂

Dimensions (mm)



Application Notes

- 1、 All relays are shipped in the “closed” position. It is possible that during transit or final assembly the relay could change its state to the “open” position. Therefore, it is recommended that all relays be set to the desired state of the relay via a power supply.
- 2、 In order to maintain an “open” or “closed” state of the relay, the coil voltage should reach the rated voltage. The pulse width should be 5 times the operating time to ensure a proper change of state. Do not energize both T1, T2 and T3 at the same time on a dual coil or energize the coil for longer than 1 minute (damage to the coil could incur).
- 3、 Relays have polarity, if the user's need different from information, should be contact us.
- 4、 The relay to the factory inspection and use should handle to prevent damage effect, to the factory for damaging the goods should be strict distinction between the normal product and must not uses.

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HJE41A-125A

Magnetic Latching Relay

Characteristic Description

- Three Phase /Four sets contacts with 125A switching capability
- Applied to three phase 4 poles control with input at top and output at bottom
- Load lead-out mode: 1 input 2 output, 3 input 4 output, 5 input 6 output
- 4KV dielectrics strength coil to contact
- IEC-62055-31 UC3 compliant
- Outline dimensions (140×70×26.5)mm
- Optional with auxiliary switch and manual switch
- RoHS compliant



Contact Data

Rated load(FLA)	125A/250VAC
Contact form	4A & 4B
Contact material	AgSnO ₂
Initial contact resistance	2mΩ (0.1A@6vdc)
Max.switching current	125A
Max.switching voltage	250VAC
Max.switching power	31250VA
Electrical endurance	1x10 ⁴ ops
Mechanical endurance	1x10 ⁵ ops

Coil Power

Coil type	Pulse duration	Power consumption
Single	Min.50ms	5W
Dual	Min.50ms	10W

Coil Data

Nominal coil voltage	6Vdc	9Vdc	12Vdc	24Vdc	
Operating Voltage VDC	≤4.2	≤6.3	≤8.4	≤16.8	
Coil Resistance (Ω ± 10%)@23°C	Single coil resistance	7.2Ω	16.2Ω	28.8Ω	115Ω
	Dual coil resistance	2×3.6Ω	2×8.1Ω	2×14.4Ω	2×57Ω

Characteristics

Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Coil to contact	4000VAC 1 min
	Across open contact	2500VAC 1 min
Operate time	Max.20ms	
Release time	Max.20ms	
Shock resistance functional	100m/s ² (10g)	
Shock resistance destructive	1000m/s ² (100g)	
Ambient temperature	-40 ~ 85°C	
Humidity	98%RH, +40°C	
Vibration resistance	10-55Hz, 1.5mm(DA)	
Termination	PCB	
Unit weight	300g	
Construction	Dust protected	

Order Marks

HJE41A - 125A - 9VDC - S - T

Relays Model

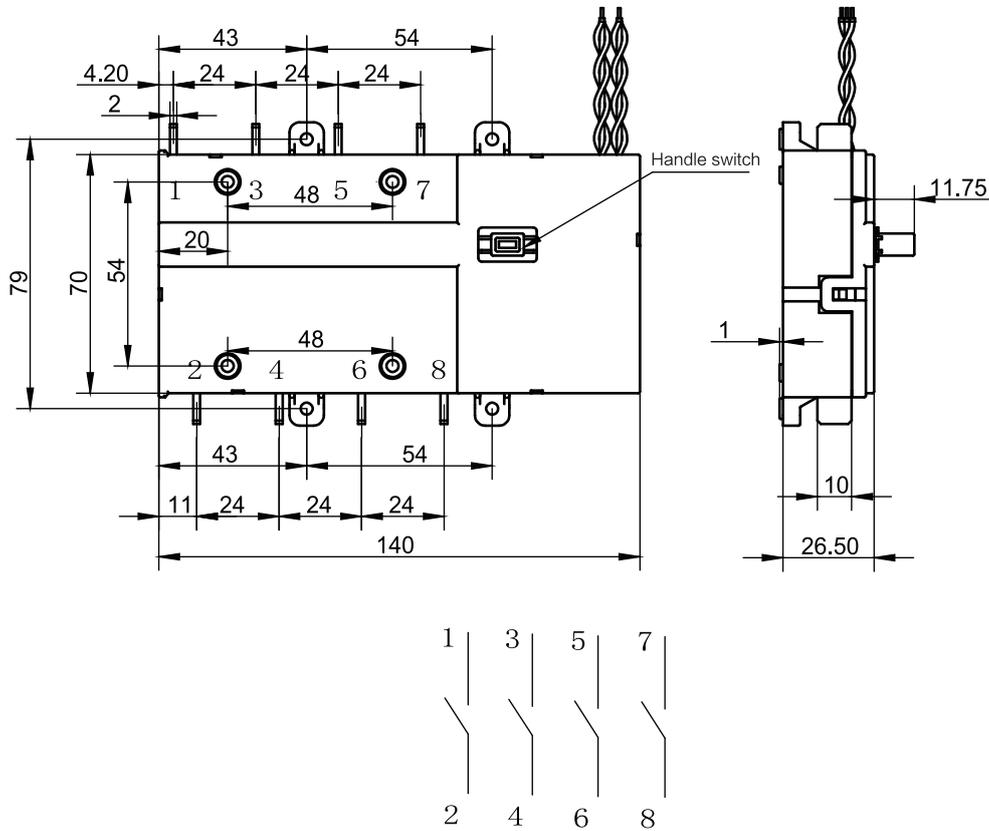
Terminal Type

Coil Voltage: 6/9/12/24VDC

Coil Type: Single Coil / Double Coil

Contact Material: T-AgSnO₂

Dimensions (mm)



Application Notes

- 1、 All relays are shipped in the “closed” position. It is possible that during transit or final assembly the relay could change its state to the “open” position. Therefore, it is recommended that all relays be set to the desired state of the relay via a power supply.
- 2、 In order to maintain an “open” or “closed” state of the relay, the coil voltage should reach the rated voltage. The pulse width should be 5 times the operating time to ensure a proper change of state. Do not energize both T1, T2 and T3 at the same time on a dual coil or energize the coil for longer than 1 minute (damage to the coil could incur).
- 3、 Relays have polarity, if the user’s need different from information, should be contact us.
- 4、 The relay to the factory inspection and use should handle to prevent damage effect, to the factory for damaging the goods should be strict distinction between the normal product and must not uses.

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Huajin Technology

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