EVSE POWER RELAY

IM-NE801A

Product Introduction

40A POWER RELAY

- Continuous Current:40A with Contact Form:2A
- Low Temperature Rise
- Contact Distance : 3.00mm
- Sealed Structure to Resist Harsh Environment
- UL & IEC61810-1 Standard Compliant
- Widely used in EV charging pile field, industrial control field,etc

Technical Parameter

Weight	≈70g
Continuous Current	40A
Contact Form	2A
Contact Material	$AgSnO_2$
Insulation Resistance	1000M Ω , at 500VDC, 50%RH
Contact Resistance (Initial)	10mΩ (at 20A)
Mechanical Endurance	1×10^6 ops
Electrical Endurance	①$2\times10^4$ ops@40A 230VAC on-off ratio:1s:4s,Resistive load at room temperature; ②$5\times10^4$ ops @32A 230VAC on-off ratio:1s:9s,Resistive load at room temperature

Max.Switching Voltage	277VAC	
Dielectric strength (Initial)	Between Coil and Contact	5,000VAC 1min
	Between Open Contact	4,000VAC 1min
Pick-up & Release Time	30ms. typical/10ms. typical	
Environment Temperature	Operation:-40°C~85°C Storage:-40℃~125℃	
Vibration	10-40Hz,DA1.27mm, 40-70Hz:5g 70-100Hz:DA 0.5mm,100-500Hz:5g	
Shock Resistance	20g, 11ms	
Dielectric Strength	500Vrms, 1 min	
Short-time current (Initial)	Max. 1,000 A 1 ms, 3 times (reference value)	

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Coil Data

Type	Coil PN	Rated Voltage (VDC)	Coil Resistance (Ω) ±10%	Power Consumption (W)	Max Pick-up Voltage (VDC)	Min Release Voltage (VDC)
801A	012	12	48	3.0	9	1

Notes: It is strongly recommended to perform voltage reduction processing on the relay control circuit!
12V coil voltage as an example,The power consumption is 3W when pulling in,when the contacts are closed, the coil voltage can be reduced to 9V after 100ms, and can be reduced to 3.6V at the minimum. At this time, the power consumption can be reduced to 0.27W, which can greatly reduce the actual coil power consumption of the relay and thus reduce the coil temperature rise.

Ordering Information

Capacity / Coil Voltage Contact Form	40A / 12VDC
2A	IM-NE801A

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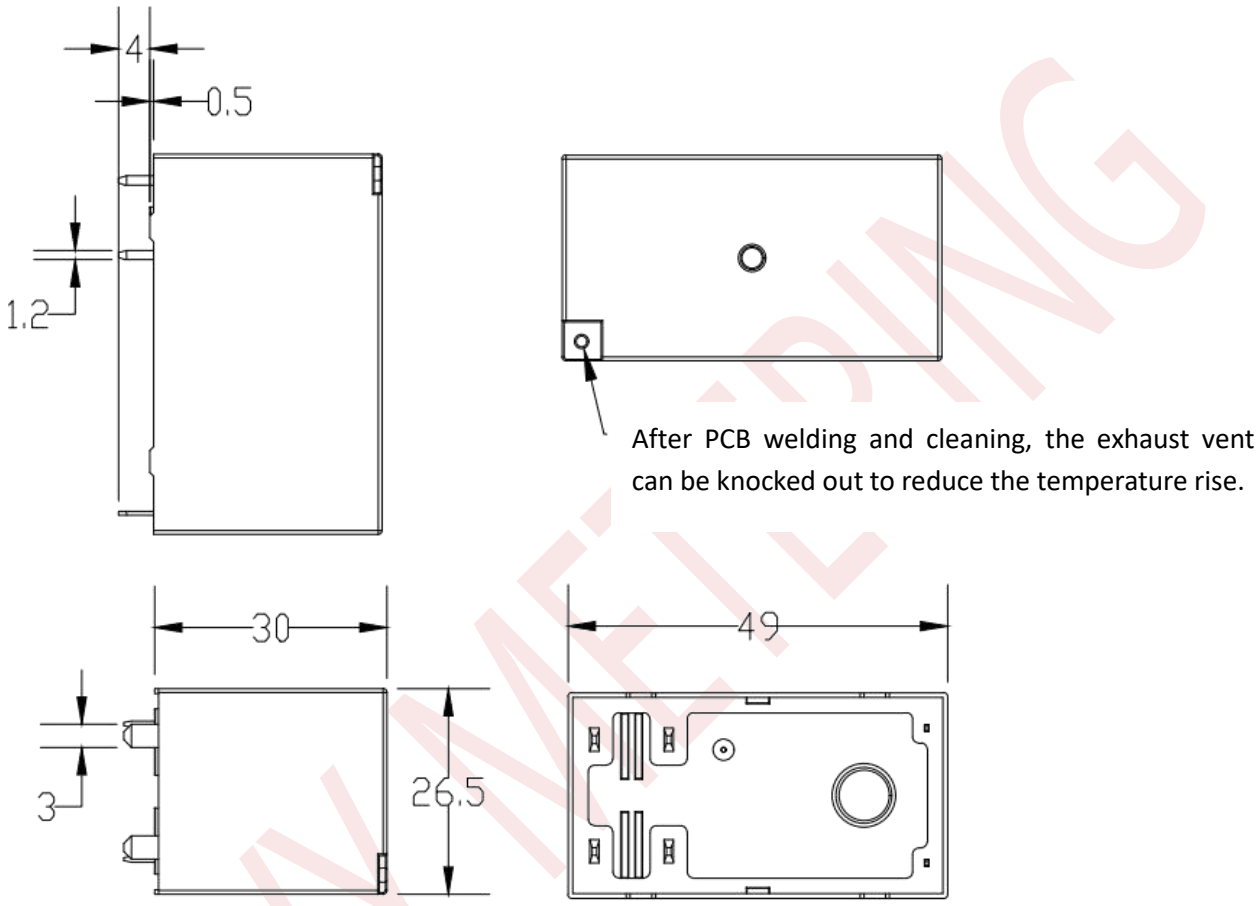
Dimensional Drawing

All dimension in mm unless otherwise noted ,For more information, please contact IVY Metering.
(Unit:mm)



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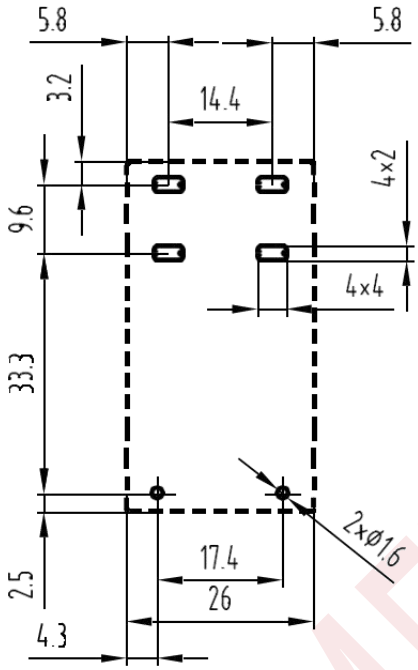
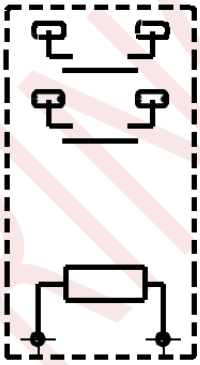
Hole Dimension & Wiring Diagram

(Unit:mm)



Hole Dimension



Wiring Diagram

Application Notes

1. All parameters plz refer to indoor temperature 23℃ unless otherwise noted.
2. The max allowable voltage shall be lower into 72% of the original value if the environmental temperature is 85℃.

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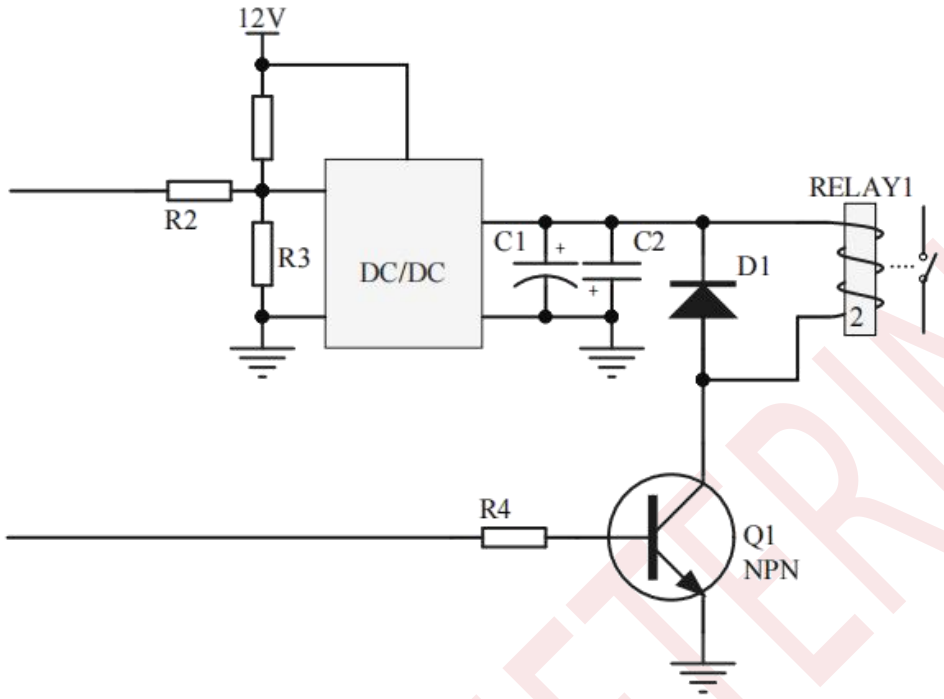
Reduced Voltage Circuit Reference



Note: The above is the reduced voltage circuit of this product, which is for reference only and may not be completely applicable to the customer's circuit. The specific circuit design requires the customer to debug and test according to their own circuit!

Disclaimer: This data sheet is for reference only .All specifications are subject to change without prior notice.IVY Metering cannot predict every possible application for our relays. While we do our best to make our relays as versatile as possible, we highly recommend contacting our engineering team if you have any questions.IVY Metering is not responsible for malfunctioning relays when operated outside the specified parameters given in this data sheet.