

KKA-D120

120A Relay

Features

- 120A switching capability at both 12VDC and 24VDC
- 1 Form A (SPST-NO) and 1 Form C (SPDT) contact arrangement
- Resistor and diode for coil component available
- Ambient temperature -40°C ~ +125°C



Typical Application

Applicable for 120A Automotive Grade Circuit: Engine start preheating system, power management system, heating plug, front windshield heating start/stop control, etc.

ORDERING GUIDE

	KKAD120	-012	1H	2.4	P	(XXX)
Type	KKAD120 - Standard KKAD120C - Standard Magnetic Type KKAD120M - Mini Type KKAD120MC - Mini Magnetic Type					
Coil Voltage	012:12VDC 024:24VDC					
Contact Form	1H:1 Form A (SPST-NO) 1Z:1 Form C (SPDT)					
Coil Power	2.4: 2.4W coil power, applicable for long term working 4.8: 4.8W coil power, applicable for long term working					
Installation	Nil: standard type, without mounting bracket P: with installation mounting bracket					
Special Code	(XXX):customer special requirement Nil: Standard					

COIL DATA

Type	Coil Voltage		Coil resistance x (1±10%)Ω	Max. Operate Voltage (VDC)	Min. Release Voltage (VDC)	Power consumption (W)	Operate Time(s)	Release Time(s)
	Rated	Max.						
12V 2.4W	12	15.6	60	7.8	1.2	2.4W	≤ 10ms	≤ 5ms
24V 2.4W	24	31.2	240	15.6	2.4	2.4W		
12V 4.8W	12	15.6	80	7.8	1.2	4.8W	≤ 10ms	≤ 5ms
24V 4.8W	24	31.2	320	15.6	2.4	4.8W		

CONTACT DATA

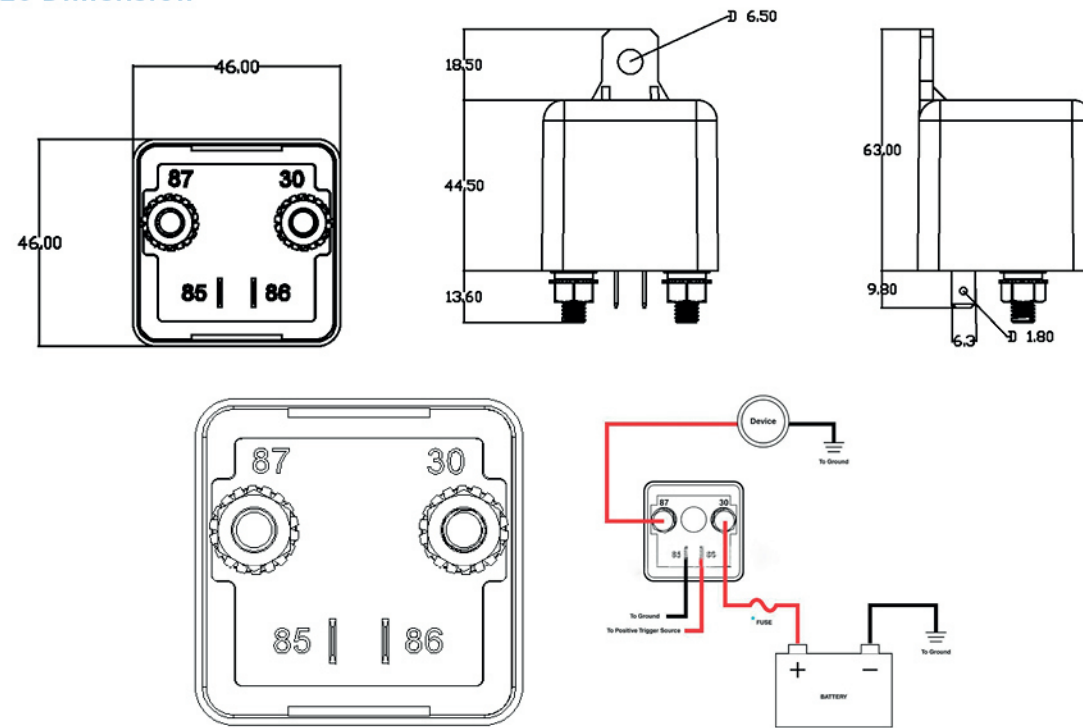
Contact arrangement	1H (SPST-NO)	
Contact Material	AgSnO2	
Contact Rating	120A/14VDC 60A/28VDC	
Max. Switching Voltage	40VDC	
Max. Switching Current	D120	120A
	D120C & D120MC	300A(3-6s) 600A(1s)
Max. Switching Power	1680W	
Contact Resistance	≤30mΩ item 4.12 of IEC 61810-7	
Electrical Life	1×10 ⁶ item 4.30 of IEC 61810-7	
Mechanical Life	1×10 ⁷ item 4.31 of IEC 61810-7	

CHARACTERISTICS

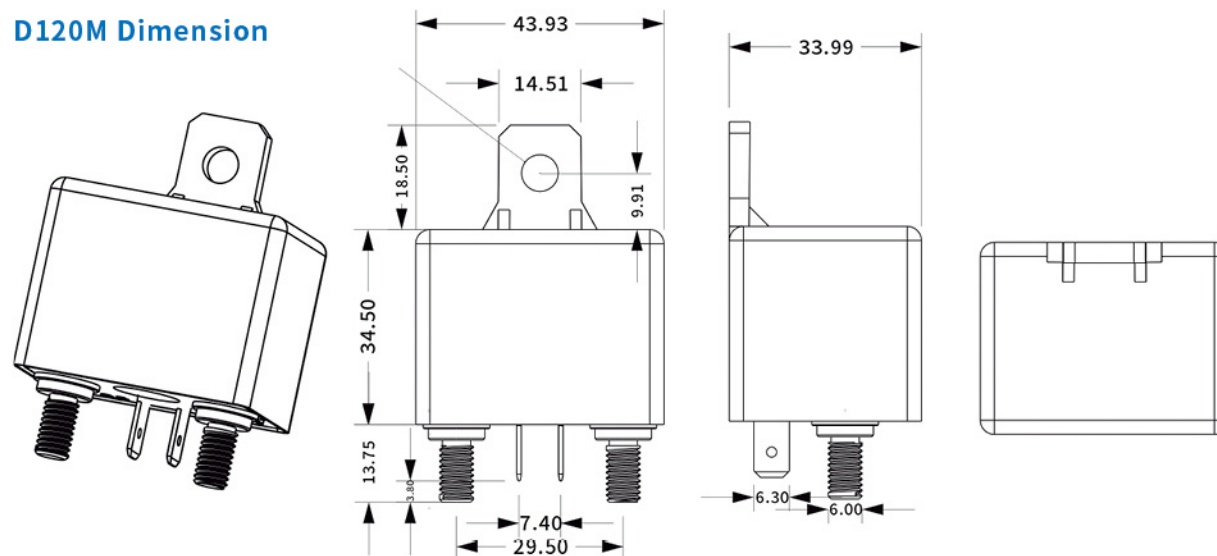
Insulation resistance	100MΩ min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric strength	50Hz 500V	Item 6 of IEC 60255-5
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Shock resistance	147m/s ²	IEC 68-2-27 Test Ea
Vibration	10-40Hz double amplitude 1.5mm	IEC 68-2-6 Test Fc
Termination	20N	IEC 68-2-21 Test Ua1
Soldering	235°C±2°C 3±0.5s	IEC 68-2-20 Test Ta method 1
Ambient Temperature	-40°C--85°C	
Relative Humidity	85% (at 40°C)	IEC 68-2-3 Test Ca
Weight	96g	

DIMENSION

D120 Dimension



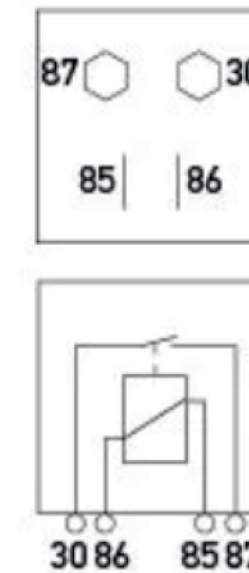
D120M Dimension



Remark: In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$;
Outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.

WIRING DIAGRAM

D120



D120M

