KKA-E150

150A Automotive Relay

Features

- 150A switching capability at both 12VDC and 24VDC
- Able to load high voltage circuit
- 1 Form A (SPST-NO) contact arrangement
- Straight and flat installation
- Comply with RoHS, ELV Directive

Typical Application

Applicable for 150A Automotive Grade Circuit: Engine start preheating system, power management system, heating plug, front windshield heating, start/stop control, etc.

ORDERING GUIDE

	KKAE150	-012	1H	2.4		(XXX)
Type	KKAE150 - Standard type KKAE150A - Flat Install Type					
Coil Voltage	012:12VDC 024:24VDC 036:36VDC 048:48VDC 060:60VDC 072:72VDC					
Contact Form	1H:1 Form A (SPST-NO)					
Coil Power	2.4W Customization Available					
Parallel Coil Components	Nil: without parallel component L: paralleled with LED light R: parallel transient supression resistors D1:parallel transient supression diode, with anode connected to terminal #1 D2:parallel transient supression diode, with anode connected to terminal #2					
Special Code	(XXX):customer special requirement Nil: Standard					

COIL DATA

Nominal pvoltage (VDC)	Pick-up voltage (VDC)	Drop-out voltage (VDC)	Coil resistance x (1±10%) Ω	Paral[lel] resistance x(1+5%) Ω	Equivalent resistance x(1±10%)Ω	Power consumption (W)	允许 Max.Coil Voltage (VDC)
12	⩽ 8	⩾ 1	60	--	--	2.4	15
24	⩽ 15	⩾ 1	240	--	--	2.4	30

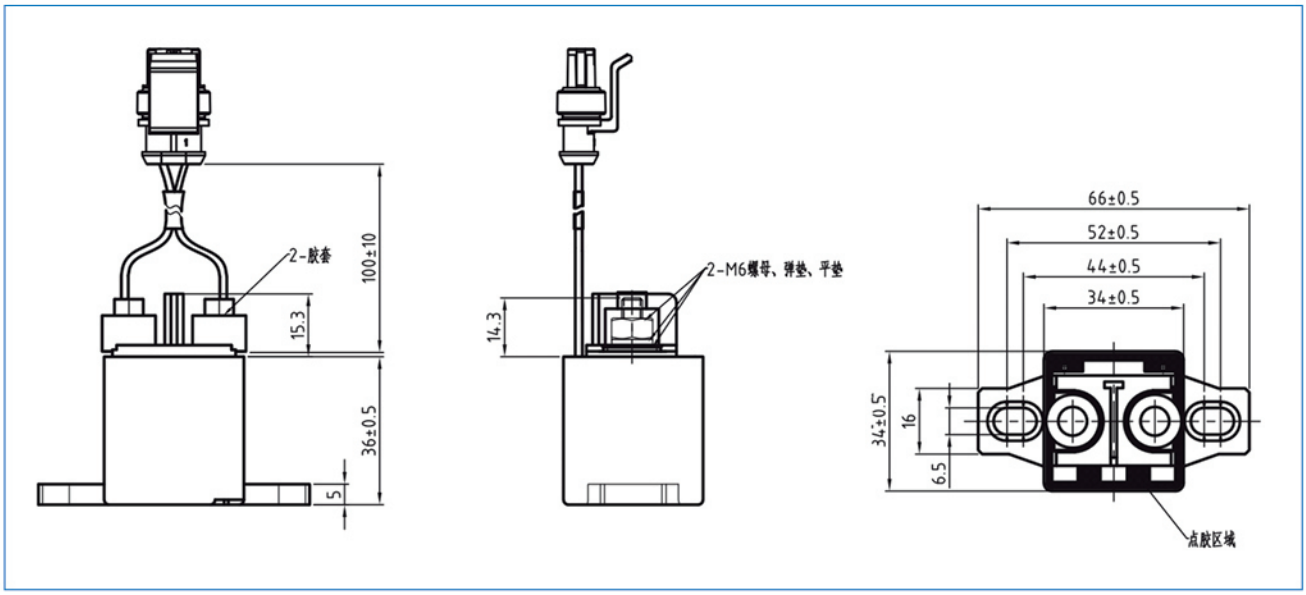
CONTACT DATA

Load voltage	Load type		Load current (A)	On/Off ratio		Electrical endurance OPS	Contact material	Ambient temp.
			NO	On S	Off S			
14VDC	Resistive	Make	150	1	4	5×10^4	$AgSnO_2In_2O_3$	23°C
		Break	150	1	4			
28VDC	Resistive	Make	100	1	4	5×10^4	$AgSnO_2In_2O_3$	23°C
		Break	100	1	4			
72VDC	Resistive	Make	50	1	4	5×10^4	$AgSnO_2In_2O_3$	23°C
		Break	50	1	4			
110VDC	Resistive	Make	30	1	4	5×10^4	$AgSnO_2In_2O_3$	23°C
		Break	30	1	4			

CHARACTERISTICS

Contact arrangement	1H: SPST-NO	
Voltage drop(initial)	Typ. 160mV, Max.: 200mV(at 10A)	
Max.continuous current	150A(Resistive)	
Max.switching votlage	28VDC (Resistive)	
Min. contact load	1A 6VDC	
Electrical endurance	5×104	
Mechanical endurance	1×107 ops (300ops/min)	
Initial insulation resistance	20MΩ (500VDC)	
Dielectric strength	1000VAC	
Operate time	Max.50ms	
Release time	Max.50ms	
Ambient temperature	-40℃ to 75℃	
Vibration resistance	10Hz ～500Hz , 5.0G	
Shock resistance	Steady work	10G
	Limit Damage	100G
torque requirement	6 ～8N·m	
Construction	Plastic sealed	

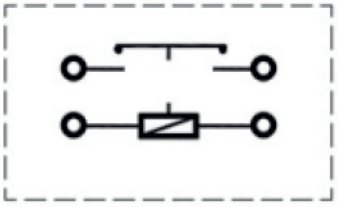
DIMENSION



Remark: In case of no tolerance shown in outline dimension: outline dimension≤1mm, tolerance should be ±0.2mm;
Outline dimension>1mm and≤5mm, tolerance should be ±0.3mm; outline dimension>5mm, tolerance should be ±0.4mm.

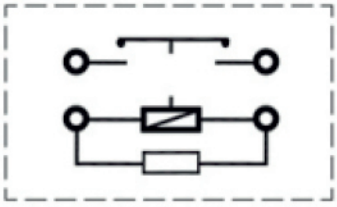
WIRING DIAGRAM

KKAE150-0121H□



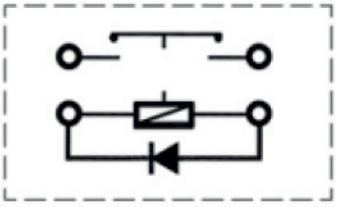
（无并联元件）

KKAE150-0121H□-R



（并联电阻）

KKAE150-0121H□-D1



（并联二极管）