

一、认证信息 Certification information

1. 符合欧盟 RoHS 指令 (2011/65/EU);

Meet RoHS (2011/65/EU);

2. 符合 GB/T 14048.5-2017 标准, 获得 CCC 中国国家产品强制性认证;

Meet the standard of GB/T 14048.5-2017, CCC is certified;

3. 符合 BS EN 60947-5-1:2004+A1:2009 标准, 获得 CE 认证;

Meet the standards of BS EN 60947-5-1:2004+A1:2009, CE is certified;

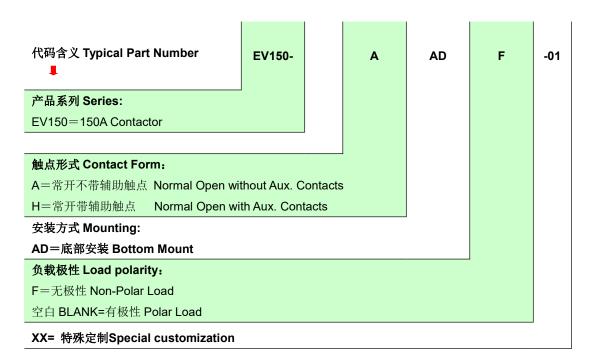
4. 符合 IEC60947-5-1(ed. 3)标准, 获得 CB 认证;

Meet the standards of IEC60947-5-1 (ed.3), CB is certified;

5. 获得 UL 认证, E490848。

UL is certified, E490848.

二、产品型号含义命名 Nomenclauture:





三、技术参数 Performance Data:

三、技术参数 Performance Data: 主 触 点 数 据							
王 触 点 剱 婼 Main Contacts Data			灰				
Main Contacts Da		ata	电耐久性(切换)	,tou E	 见下表		
主触点形式 Contact Arrangement		1 Form A (SPST-NO)	Flectrical		Check the table		
			Endurance(Make/Bre	ak)	Below		
			机械寿命				
Max. Switching Voltage		900VDC	Mechanical Life	200,000 Cycles			
			辅助开关参数				
Rated Current		150-200A	Aux. Contact				
		2000A@320VDC(1s)	辅助开关触点形式				
	是大短路电流		Aux. Contact		一组常开		
Max. Sh	nort Circuit Current		Arrangement	1 Form A			
		300A (5min)	辅助开关最大电流				
	过电流能力	400A(1min)	Aux. Contact	2A@30VDC/ 3A@125VAC			
Shor	rt Term Current	500A (0.5min)	Current Max.				
耐电压	断开触点间 Between						
Dielectric	Open Contacts	4000VDC 1mA 1min	辅助开关最小电流				
Withstandin	open contacts		Aux. Contact		100mA@8V		
g Voltage	线圈与触点间 Between	2200VAC 1mA 1min	Current Min.				
(Initial)	Contacts to Coil						
	触点与触点间						
绝缘电阻	Terminal to Terminal		辅助开关				
Insulation		Min 1000 M Ω	最大接触电阻		417ohms@30VDC/		
Resistance	触点与线圈间	@1000Vdc	Aux. Contact	0.150ohms@125VAC			
(Initial)	Terminals to Coil		Resistance Max.				
触点压降							
Contact '	Voltage Drop(initial)	Max. 50mV(100A)					
极限分断		1500A@450VDC,1					
Li	mit breaking	Cycle					
环 境 参 数 Environmental Dat			吸 合 / 彩	译 放	时间		
		ata	Operate & Release Time		se Time		
	稳定性	196m/s ²					
冲击	Functional	Sine half-ware pluse	吸合时间		25ms,Max.		
Shock	强度	490m/s ²	Operate Time	@20 ℃			
	Destructive	Sine half-ware pluse					
工作环境温度范围		-40∼+85℃	释放时间		12ms,Max.		
Operating Temperature			Release Time		@20 ℃		
湿度 Humidity		5%∼85%RH					
重量 Weight		0.95Lb (0.43kg)					



备注 Note:

1.试验后不能保证产品仍然满足新产品时的耐压和绝缘电阻要求。

Do not meet dielectric & IR after the test.

2.电耐久通断比为 0.6s:5.4s

ON:OFF= 0.6s:5.4s.

3.试验环境条件下不能导致继电器内部产生结露、结冰,否则会导致继电器失效。

The ambient environment of application should not cause any dewing or icing inside the relay. Otherwise, the relay may fail to work consequently.

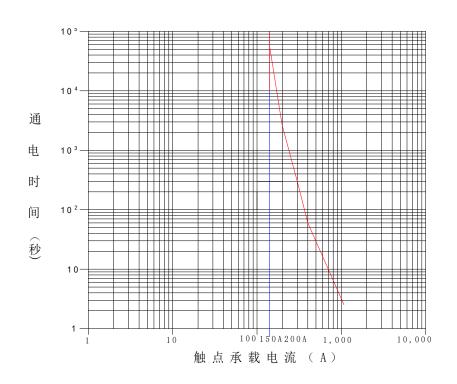
四、特性 Characteristics:

线 圈 参 数 Coil Data					
额定工作电压	9-36Vdc				
Nominal Voltage					
吸合电压	Max. 9Vdc				
Pick-up Voltage(20℃)	Max. 9Vdc				
释放电压	Min. 6Vdc				
Drop-out Voltage(20℃)					
最大启动电流	3.8A				
Max. Inrush Current (20℃)					
平均保持电流	0.13A@12Vdc				
Average Holding Current (20℃)	0.07A@24Vdc				
线圈功率(20℃,额定电压下的标称值)	1.56W@12Vdc				
Coil Power (20°C, Nominal Voltage)	1.68W@24Vdc				

五、性能曲线图 Performance Data:

(1) I-T 曲线图 Carry current performance (85℃),铜排截面积≥50mm²,数据仅供参考。





六、 阻性负载下产品通/断电寿命次数 Switching Electrical Life (Resistive load):

有极性产品 Polar product

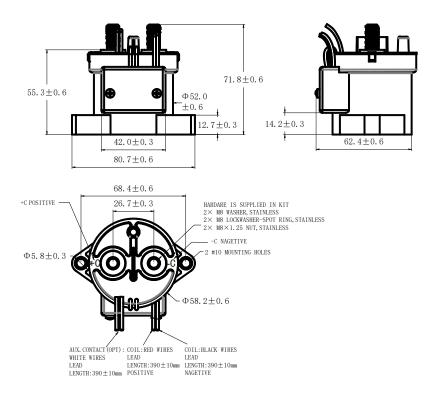
电压	650	450
Voltage(VDC)		
电流	200	200
Current(A)		
电耐久性(切换)		
Electrical	200	8000
Endurance(Make/Break)		

无极性产品 Non-Polar product

电压	650	450
Voltage(VDC)		
电流	200	200
Current(A)		
电耐久性(切换)		
Electrical	150	3000
Endurance(Make/Break)		



七、外形尺寸与安装尺寸 Outline Dimensions: (mm)



备注 Note:

1. 有极性产品外盖上有"+C"、"-C"的极性标注,无极性产品无极性标注。

There is "+C"& "-C" mark on the cover of the polar products, no mark for the bi-directional ones.

2. 无极性产品的辅助触点引出线位置在线圈引出端对侧,无极性引出线为细导线(Ø 1.10±0.13mm)。

The lead wires of the auxiliary contact of the bi-directional products are on the opposite side of the lead wire of the coil, lead wire of Non-polarfor is fine lead (\varnothing 1.10 \pm 0.13mm).

3. 导线导体规格为 22AWG。

The conductor specification is 22AWG.

八、注意事项 Application Note:

1. 为防止出现松动,凡安装接触器时均要使用垫圈,使用螺钉安装时,确保垫圈厚度和强度足够,否则会变形,撑破外壳。拧紧螺母(螺柱)的扭力范围请参照样本的要求,超出扭力最大值有可能会引起产品损坏。

各个部位的螺钉锁紧扭矩请控制在下表的规定范围内。扭力值超过建议范围时可能会造成密封腔体破坏及 螺纹破损。

•静触头扭矩: 8.8-11N.m

•安装扭矩: 1.7-3.3 N.m

Be sure to use washer to prevent screws from loosening, all the terminals or copper bar must be in direct contact with the contactor's terminals.

Screw tightening torque is specified below. Exceeding the maximum torque can lead to product failure.

• Contact torque: 8-11 N. m

• Mounting torque: 1.7-3.3 N. m



2. 负载端标明有极性的产品请务必按照产品标示进行正确使用。负载连接极性反向时,将不能保证本说明书中承诺的电气特性。

Load side marked with polarity of the product, please be sure to follow the product label for correct use. When the polarity of the load connection is reversed, the electrical characteristics promised in this specification cannot be guaranteed.

3. 此为带线路板的产品,已经装有反向浪涌吸收电路,因此不必再使用浪涌保护器。

Products with circuit boards are already equipped with reverse surge absorption circuits, so there is no need to use surge protectors.

- 4. 避免把接触器安装在强磁场的环境(靠近变压器或磁铁处),同时避免将接触器靠近有热辐射的物体。 Avoid installing in a strong magnetic field (close to a transformer or magnet), or near a heat source.
- 5. 对继电器的线圈和触点连续通电流,电源被切断后又马上接通,此时由于线圈的温度增加,线圈的电阻会增大,从而使得产品的吸合电压升高,有可能导致超出额定吸合电压。在这种情况下,应采取以下措施:降低负载电流:限制持续通电时间或采用比额定吸合电压更高的线圈电压。

The coil and contact of the relay are continuously energized, and the power supply is cut off and immediately connected. At this time, the resistance of the coil will increase due to the increase of the temperature of the coil, so that the suction voltage of the product will increase, which may lead to the excess of the rated suction voltage. In this case, the following measures should be taken: reduce the load current; Limit continuous power or use coil voltage higher than rated suction voltage.

- 6. 施加在线圈两端的电压超过最大允许施加电压时,可能会因线圈温度上升而导致线圈损坏和层间短路。 When the voltage applied to both ends of the coil exceeds the maximum allowable applied voltage, the coil temperature may rise and lead to coil damage and inter-layer short circuit.
- 7. 触点参数中的额定值均为阻性负载时的数值。使用 L/R>1ms 的感性负载的情况下,请为该感性负载并联一个浪涌电流保护装置。未采取措施的情况下,可能会造成电气寿命下降,发生通断不良,请在设计中考虑足够的余量空间。

The rating in the contact parameters is the value at the time of the resistive load. When using an inductive load with L/R > 1ms, connect a surge current protection device in parallel with the inductive load. If no measures are taken, the electrical life may be degraded and the continuity may be poor. Please consider sufficient margin space in the design.

- 8. 产品线圈的驱动电路功率必须大于产品线圈功率,否则会降低产品的切断能力。

 Drive power must be greater than coil power or it will reduce performance capability.
 - 2. The perior made be greater than one perior of it will reduce periormance dapability.
- 9. 请不要让杂物和油污附着到主引出端;请务必保证外接线端子与产品的主引出端可靠接触,否则有可能会因接触电阻过大而导致引出端温升过大。

Please do not allow debris and oil to adhere to the main lead end; Make sure that the external terminals are in reliable contact with the main outgoing end of the product, otherwise the temperature rise of the outgoing end may be too high due to the excessive contact resistance.

10. 与产品高压端相连接的引线必须有相应的电流负载能力及散热能力(建议采用 50mm² 以上的铜排),防止发生过热影响接触器寿命。

The lead wire connected with the high voltage end of the product must have the corresponding current



load capacity and heat dissipation capacity (it is recommended to use a copper bar with min 50mm²), to prevent overheating affecting the life of the contactor.

11. 此为带节能板的产品,接通电源后,约 100ms 后,电路开始自动切换,请不要在该时间段重复通断操作, 否则可能会损坏接触器节能板。

After the products with energy saving panel are connected to the power supply, the circuit will automatically switch about 100ms later. Please do not repeat the on-off operation during this period, or the energy saving panel of contactor may be damaged.

12. 在接触器意外跌落的情况下,原则上请不要再使用。

Do not use if dropped.

13. SCII不可能确定继电器在每一个具体应用领域的所有性能参数, 所以客户应根据自身的使用条件选择与 之相匹配的产品,若有疑问,请联系SCII; 但因产品选型责任仅由客户负责。

SCII is impossible to determine all the performance parameters of relays in each specific application area, Therefore, customers should choose the products matching them according to their own conditions of use. If in doubt, contact SCII; However, customer will responsible for what they chosen it is the user's responsibility to determine

14. SCII保留对产品更改的权利,客户在首次下单之前应确认此规格书内容,必要时可要求我司提供新的规格书。

SCII reserves the right to make changes. Customers should reconfirm the contents of the specification before first orders and ask for us to supply a new specification if necessary.