

技术参数 Specifications

电气参数 Ratings:

◇最大工作电压

Max. Switching Voltage: 2000VDC

◇额定电流

Rated Current: 350A

◇主触点形式

Main Contact Type: 一组常开 SPST-NO

◇辅助触点

Auxiliary Contact: 可选配 Optional

◇辅助触点形式

Auxiliary Contact Type: 一组常开 SPST-NO

◇线圈额定电压

Coil Rated Voltage: 12VDC/24VDC/48VDC

◇使用环境温度

Ambient Operation Temperature : -40°C~+85°C

◇使用环境湿度

Ambient Operation Humidity: 5%~85%RH

认证/标准 Approvals/Standard:

- \Diamond REACH
- ♦RoHS
- ♦UL 60947-4
- ♦ CCC/CE/CB/S Mark

产品特征 Features&Benefits:

陶瓷密封结构,腔内充有氢气混合气体,无电弧泄露风险,接触电阻低且稳定;

Ceramic sealing structure with H₂ mixed gas filled in the chamber, no risk of arc leakage, low&stable contact resistance;

良好的抗短路能力,确保通过短路电流,触头仍能可靠闭合不斥开,产品不起火不爆炸;

High value of short-circuit current withstanding to ensure the contacts can be reliably closed when encountering short-circuit current, contributing to no risk of fire and explosion;

无极性灭弧设计,安装方向不敏感,适用回路双向电流的各种场景,使用安全可靠;

Non-polarity arc extinguishing design that is applicable to a range of scenarios with bidirectional current circuit safely and reliably;

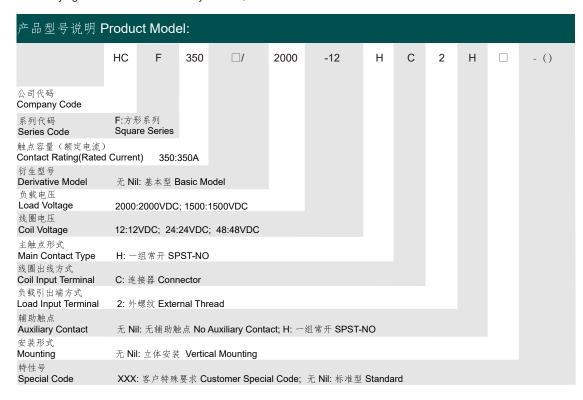
可选配一组常开辅助触点;

A set of NO auxiliary contacts is optional;

能够在85°C环境下持续承载350A电流;

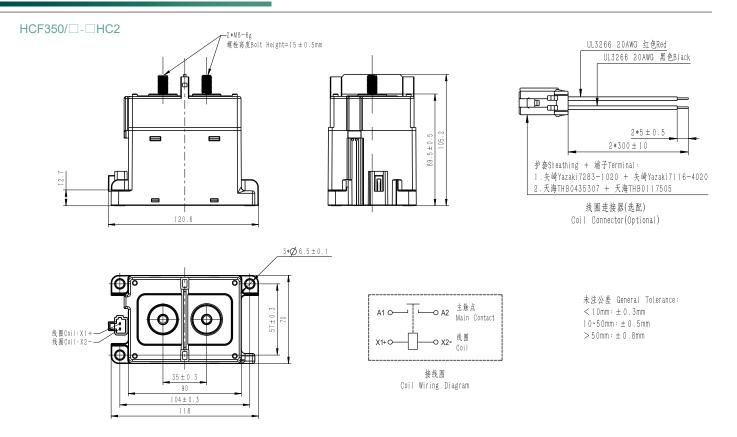
Carrying current 350A continuously at 85°C;





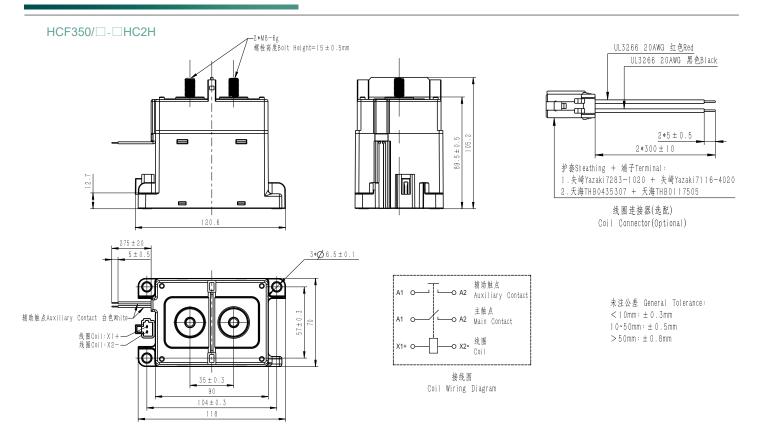






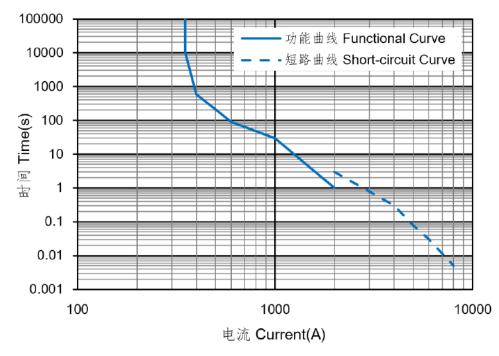
特性参	数 CHARAC 1	ERISTIC PARAME	TERS							
主触点参数	★ MAIN CONTACT DAT	ГА								
最大工作电压 Max. Switching Voltage		2000VDC		额定电流 Rated Current			350A			
触点形式 Contact Arrangement		一组常开 SPST-NO		触点压降 Contact Voltage Drop			≤0.07V(at 350A)			
短时承载电流 Limiting Short-time Current		400A:10min;600A:90sec;1000A:30sec;2000A:1sec								
电寿命 (阻性负载) Electrical Life (Resistive Load)		1500V 型 Model					2000V 젶 Model			
		100A 1500VDC, 6000 次(ops), 仅分断 Only Breaking 仅分断 Only		DC, 3000 次(ops), Breaking 350A 1500VDC, 1000 仅分断 Only Breaking			350A 2000VDC, 500 次(ops), 仅分断 Only Breaking			
最大分断电流 (阻性负载) Max. Breaking Current (Resistive Load)		2000A 320Vdc 1 次(ops)								
过载分断(阻性负载) Overload Breaking (Resistive Load)		1000A 900VDC 50 次 (ops)								
耐短路电流 Short Circuit Current Withstanding		8000A(5ms) 不冒烟、不起火 No Smoke or Fire								
	CHARACTERISTIC DA	TA								
介质耐压 Dielectric Strength	主触点与线圈间 Between Main Contacts and Coil	试验前 Before Test≥5000VAC (1min) 试验后 After Test≥2500VAC (1min)			主触点与线圈间 Between Main Contacts and Coil		试验前 Before Test≥1000MΩ(2000VDC) 试验后 After Test≥10MΩ (1500VDC)			
	断开主触点间 Between Open Main Contacts	试验前 Before Test≥5000VAC (1min) 试验后 After Test≥2500VAC (1min)		E		干主触点间 ween Open Main ntacts		ore Test≥1000MΩ(2000VDC) r Test≥10MΩ (1500VDC)		
耐冲击	功能性 Functional	20g 半正弦波 Half-Sine Wave 11m	s	耐振动 Vibration Resistance	功能性 Functional		5.79g (10~2000Hz,随机 Random)			
Shock Resistance	强度 Destructive	50g 半正弦波 Half-Sine Wave 6ms								
吸合时间 Operate Time	e	Max:50ms		机械寿命 Mechanical Life		2x10 ⁵ 次 (ops)				
释放时间 Release Time	e	Max:30ms		重量 Weight			约 Approx 1300g			
	COIL DATA			<u> </u>						
额定电压 Rated Voltage		12VDC		24VDC		48VDC				
吸合电压 Pick-up Voltage		≤9VDC		≤18VDC		≤36VDC				
释放电压 Drop-out Voltage		≥1.2VDC			≥2.4VDC		≥4.8VDC			
线圈功率 Rated Operating Power		约 Approx 56W(启动 Start); 5.4W(保持 Hold)		约 Approx 56W(启动 Start); 5.4W(保持 Hold)			约 Approx 56W(启动 Start); 5.4W(保持 Hold)			
最大允许电压 Max.Allowable Voltage		16VDC		32VDC		DC	64VDC			





特性参	数 CHARAC	TERISTIC PARAME	TERS						
主触点参数	₾ MAIN CONTACT DA	TA							
最大工作电压 Max. Switching Voltage		2000VDC		额定电流 Rated Current		350A			
触点形式 Contact Arrangement		一组常开 SPST-NO		触点压降 Contact Voltage Drop		≤0.07V(at 350A)			
短时承载电流 Limiting Short-time Current		400A:10min;600A:90sec;1000A:30sec;2000A:1sec							
电寿命 (阻性负载) Electrical Life (Resistive Load)		1500V 型 Model					2000V 型 Model		
		100A 1500VDC, 6000 次(ops), 仅分断 Only Breaking	/DC, 3000 次(ops), y Breaking 350A 1500VDC, 1000 仅分断 Only Breaking						
最大分断电流 (阻性负载) Max. Breaking Current (Resistive Load)		2000A 320Vdc 1 次(ops)							
过载分断(阻性负载) Overload Breaking (Resistive Load)		1000A 900VDC 50 次 (ops)							
耐短路电流 Short Circuit	Current Withstanding	8000A(5ms) 不冒烟、不起火 No Smoke or Fire							
性能参数	CHARACTERISTIC DA	TA							
介质耐压 Dielectric Strength	主触点与线圈间 Between Main Contacts and Coil	试验前 Before Test≥5000VAC (1min 试验后 After Test≥2500VAC (1min)			主触点与线圈间 Between Main Contacts and Coil	试验前 Before Test≥1000MΩ(2000VDC) 试验后 After Test≥10MΩ (1500VDC)			
	断开主触点问 Between Open Main Contacts	试验前 Before Test≥5000VAC (1min 试验后 After Test≥2500VAC (1min)		绝缘电阻 Insulation Resistance	断开主触点间 Between Open Main Contacts	试验前 Before Test≥1000MΩ(2000VDC) 试验后 After Test≥10MΩ (1500VDC)			
	主触点与辅助触点间 Between Main Contacts and Auxiliary Coil	试验前 Before Test≥5000VAC (1min 试验后 After Test≥2500VAC (1min)			主触点与辅助触点间 Between Main Contacts and Auxiliary Coil	试验前 Before Test≥1000MΩ(2000VDC) 试验后 After Test≥10MΩ (1500VDC)			
耐冲击 Shock	功能性 Functional	20g 半正弦波 Half-Sine Wave 11m	s	耐振动 Vibration	功能性	5.790	g (10~2000Hz,随机 Random)		
Resistance	强度 Destructive	50g 半正弦波 Half-Sine Wave 6ms		Resistance	Functional	,			
吸合时间 Operate Time	e	Max:50ms		机械寿命 Mechanical Life		2x10 ⁵ 次 (ops)			
释放时间 Release Tim		Max:30ms		重量 Weight		约 Approx 1300g			
	COIL DATA								
额定电压 Rated Voltage		12VDC		24VDC		48VDC			
吸合电压 Pick-up Voltage		≤9VDC			≤18VDC	≤36VDC			
释放电压 Drop-out Voltage		≥1.2VDC			≥2.4VDC	≥4.8VDC			
线圈功率 Rated Operating Power		约 Approx 56W(启动 Star 5.4W(保持 Hold)	t);	约 Approx 56W(启动 Start); 5.4W(保持 Hold)		约 Approx 56W(启动 Start); 5.4W(保持 Hold)			
最大允许电压 Max.Allowable Voltage		16VDC	16VDC		32VDC		64VDC		
辅助触点参	参数 AUXILARY CONTA	ACT DATA							
辅助触点形式 Auxiliary Contact Arrangement		一组常开 SPST-NO			触点使用范围 y Contact Range	100mA/8VDC~2A/30VDC			
辅助触点电阻 Auxiliary Contact Resistance		≤200mΩ(at 100mA)							
				-					

电流承载曲线 Current Carry Curve:



使用注意事项 Caution:

- 1.规格书内的各项性能参数是基于标准测试条件下测得的初始值。
 - All the performance parameters listed in this specification are deemed as initial value measured under standard testing conditions.
- 2.使用环境温度-40°C~+85°C,湿度5%~85%RH。 Used in environment temperature -40°C~+85°C, humidity 5%~85%RH.
- 3.请避免安装在强磁场(变压器、磁铁周围)或发热物体附近。

Please avoid installing the device near high magnetic fields (eg.transformers or magnetics) or hot objects.

4.电寿命试验为阻性负载时的数值,应用在L/R≥1ms的感性负载回路时,请与感性负载并行采取浪涌吸收措施。未采取措施的情况下,可能会成电气寿命下降、发生切断不良。

The electrical life test is performed with resistive load. Therefore, please take surge absorption measures in parallel with inductive load when the device is applied to inductive load circuit with L/R≥1ms. Otherwise, the electrical life is likely to decline, resulting in poor cutting off.

- 5.应用在容性负载回路时,请注意采取预充等措施,建议接触器闭合压差控制在20V以内。如未采取措施,可能会造成触点粘连。 Measures including precharging etc. must be taken if the device is to be applied in capacitive load circuit.It is suggested that the differential pressure be controlled within 20V when the contactor is in closed position. Otherwise, it might lead to contact adhesion.
- 6.接触器的线圈有极性,因此在进行线圈的连接时,请按接线图的指示进行操作。
 The coils of the contactor are polarized, so follow the connection schematic when connecting the coils.
- 7.接触器内置单触发脉冲发生电路,请通过快速上升沿(脉冲式供电方式)驱动线圈;接触器接通信号后,约300ms后线圈电流自动切换,请避免间隔不满300ms的重复切换操作。

The contactor has a built-in one-shot pulse generator circuit, please drive the coil with a quick startup (pulse power supply mode); after the signal enters contactor, automatic coil current switching occurs after approximately 300ms, please avoid repetitive switch in which interval time is less than 300ms.

- 8.请避免在引出端上粘附油脂等异物,建议使用120mm²以上规格导线,否则有可能造成引出端异常发热。
 - Please avoid adhering such foreign matters as grease etc. on the leading-out terminals. Over 120mm² conductors shall be used. Otherwise, it will casue abnormal heating of leading-out terminals.
- 9.请避免在使用或运输过程中发生撞击或跌落。为保持产品的性能,撞击或跌落后不建议继续使用。
 - Please avoid collision or falling during use or transportation. In order to maintain the performance of the product, it is not recommended to continue to use it after impact or fall.
- 10.当产品使用1个及多个导电铜排连接时,请确保导电铜排与触点端面紧密贴合(多个铜排需确保大电流的导电铜排最贴近触点端面,小电流的导电铜排其次),然后是平垫圈、弹簧垫圈、螺母。不正确的连接顺序可能造成严重过热,参考下图1:

When the product is connected with one or more conductive copper bars, please ensure that the conductive busbars closely fit the contact terminal surface (The conductive copper bars with high current must be closet to the contact terminal surface if there are multiple copper bars and then conductive busbars with low current), followed by flat washers, spring washers and screws. Incorrect connection sequence perhaps give rise to severe overheatng. Refer to Figure 1 as follows:

11.螺钉安装时,螺纹咬合深度不能过浅,否则有可能导致滑牙松脱,建议咬合深度至少螺纹深度的2/3。

When installing the screws, the thread engagement depth shall not be too shallow, otherwise it may cause the sliding teeth to become loose. It is recommended that the engagement depth be at least 2/3 of the thread depth.





12.为防止出现松动,接触器安装时请使用垫圈螺钉锁紧,各部位的螺钉锁紧扭矩请控制在以下范围:

To prevent looseness, the contactor shall be locked with washer screws during installation, and the screw locking torque of each part shall be controlled within the following range:

	主负载台	安装部位	接触器壳体安装部位(图2)				
	Main loading i	nstallation part		Contactor shell installation department (figure 2)			
安装方式	扭矩要求	铜排孔径	铜排厚度	安装方式	扭矩要求	底板孔径	
Installation	Torque	Diameter of	Busbar	Installation	Torque	Diameter of	
method	requirements	busbar	thickness	method	requirements	baseboard	
M8螺母 Nut	9N·m~10N·m	Ø8mm~Ø8.5mm	≥4mm	M6螺钉 Screw	6N·m~8N·m	M6	

