

源力
无限
通
达
世界



HVDC CONTACTOR 高压直流接触器

高压直流接触器主要用作直流高压大电流的控制开关，通过控制低压线圈实现大负载的通断，迅速切断直流电弧，保证电路的安全可靠。产品广泛应用于新能源汽车及充电设施、航空航天、太阳能光伏发电系统、储能等领域。

The HVDC contactor is mainly used as the control switch of high voltage and high current. By controlling the low voltage coil, the DC arc can be quickly cut off to ensure the safety and reliability of the circuit. It can be widely used in new energy vehicles and charging facilities, aerospace, solar energy system, energy storage and other fields.



公司研发制造的直流接触器，额定电流10A-1000A，额定电压12V DC-1500V DC，采用了先进的设计理念，高可靠的密封灭弧技术和独特的封装工艺，具有如下特点：

The DC contactor produced by our company, rated current 10A-1000A, rated voltage 12V DC-1500V DC, adopts advanced design concept, highly reliable sealing arc extinguishing technology and unique packaging technology, has the following characteristics:

- ▶ **小型化、轻量化、无极性、高可靠性**
Miniaturization, lightweight, non-polarity, high reliability.
- ▶ **优良的耐温性能，可以在-55℃~+85℃甚至+125℃环境下工作**
Excellent temperature resistance, can work at -55℃~+85℃ or even +125℃ environment.
- ▶ **在极小的体积条件下，承载并开关大电流**
Better current carrying and switching performance in small size.
- ▶ **高可靠的辅助触点设计，监控主触点的状态**
Highly reliable auxiliary contact structure to monitor the status of the main contact.
- ▶ **密封介质有效地防止触点氧化烧损，接触电阻低且稳定**
The sealed atmosphere effectively prevents contact from oxidating and burning to keep CR low and stable.
- ▶ **能够在严苛环境中使用，包括浸没、压力和暴露**
Can be used in harsh environments, like immersion, stress and exposure conditions.
- ▶ **对安装方向不敏感，可以任意方向安装**
Random mounting direction.

PRODUCT FEATURES

产品优势

01 专业陶瓷密封

Professional ceramic sealing

漏气速率 $<10^{-9}$ Pa·m³/s
Leak rate $<10^{-9}$ Pa·m³/s

可承受剧烈的温度变化
Withstand dramatic temperature range

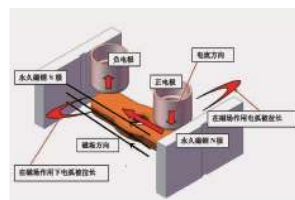


02 负载无极性

No polarity contacts

满足双向电流的特殊应用
Satisfy load current Bi-directional application

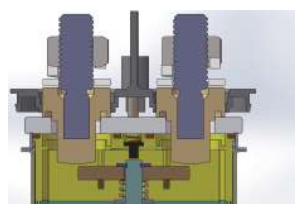
正反向电寿命平衡
Same electric life performance for each load direction



03 辅助触点可靠

Precise auxiliary contacts

全对称结构, 结构简单可靠
Symmetry structure, simple & reliable



04 抗粘连

Anti-welding

触点采用特殊铜合金材料
Special copper alloy applied



MANUFACTURE CAPACITY

生产能力

16⁺

条生产线
16⁺ production lines

年产能 1000万⁺ 只
Yearly output 10 million+

电镀 生产线
Inhouse electroplating line

陶瓷金属化 生产线
Inhouse ceramic metallization line



自动线 #1
Automation Line #1



自动线 #2
Automation Line #2



自动线 #3
Automation Line #3



自动线 #4
Automation Line #4



自动线 #5
Automation Line #5

圆型系列
Round family
2017

方型系列
Square family
2018

48V系列
48V family
2020

X系列、Y系列
X family、Y family
2021

配电盒
PDU & BDU
2022



SPECIFICATION

选型参数表

	GLKC20	GLT100
型号 Type		
尺寸 mm	44×30×41.5	80×66×23.5
触点类型 Contact form	1H	1H
接触电阻 Contact resistance	<10mΩ@1A	≤0.75mΩ@100A
动作电压 Operate voltage V DC	75%额定电压Rated voltage	75%额定电压Rated voltage
负载电流 Rated current	20A	100A
负载电压 Rated voltage	750V DC	48V DC
极限分断电流 Max. breaking current	30A 450V DC 5 次(ops)	1000A 48V DC 1 次(op)
电耐久性 Electrical endurance	通断M&B:3×10 ³ ops(20A/450V DC)	通断M&B:1×10 ⁴ ops(±100A/48V DC)
	通断M&B:1×10 ⁴ ops(10A/450V DC)	切断B:1×10 ³ ops(±200A/48V DC)
	接通M:7.5×10 ⁴ ops(20A/450V DC)	切断B:3×10ops(±300A/48V DC)
	接通M:7.5×10 ⁴ ops(6A/750V DC)	切断B:1×10ops(±400A/48V DC)
介电耐压强度 Dielectric strength	触点与线圈引出端之间 Between contacts and coil	3000V AC, (50/60 Hz 1min)
	触点之间 Between open contacts	1000V AC, (50/60 Hz 1min)
机械耐久性 Mechanical endurance	2×10 ⁵ ops	3×10 ⁵ ops
线圈 Coil	额定电压 (DC)	12V DC\24V DC
	功率Power	3.0W
线圈引出方式 Coil lead form	QC Terminal	连接器Connector
负载引出方式 Load lead form	QC Terminal	铜排Copper Bar
重量 Weight	50g	115g
振动 Vibration	10~500 Hz, 49m/s ²	10~2000 Hz, 45m/s ²
湿度 Humidity	5%~85%RH	5%~95%RH
环境温度 Temperature	-40°C~+85°C	-40°C~+85°C

安装尺寸(俯视)

Installation dimensions (overlooking)



M&B:通断Making&breaking

B:切断Breaking

M: 接通Making

	GLTB100	GLF40
型号 Type		
尺寸 mm	80×23.5×66	67×35.2×47
触点类型 Contact form	1H	1H
接触电阻 Contact resistance	≤0.75mΩ@100A	≤5mΩ@40A
动作电压 Operate voltage V DC	75%额定电压Rated voltage	75%额定电压Rated voltage
负载电流 Rated current	100A	40A
负载电压 Rated voltage	48V DC	750V DC
极限分断电流 Max. breaking current	1000A 48V DC 1次(op)	400A 450V DC 1 次(op)
电耐久性 Electrical endurance	通断M&B:1×10 ⁵ ops(±20A/48V DC)	通断M&B:1×10 ⁴ ops(40A/450V DC)
	通断M&B:2×10 ⁴ ops(±100A/48V DC)	通断M&B:5×10 ³ ops(40A/750V DC)
	接通M:1×10 ⁵ ops(±100A/2V DC)	通断M&B:3×10ops(120A/450V DC)
		通断M&B:1×10 ⁴ ops(-40A/200V DC)
介电耐压强度 Dielectric strength	触点与线圈引出端之间 Between contacts and coil	1000V AC, (50/60 Hz 1min)
	触点之间 Between open contacts	1000V AC, (50/60 Hz 1min)
机械耐久性 Mechanical endurance	3×10 ⁵ ops	2×10 ⁵ ops
线圈 Coil	额定电压 (DC)	12V DC
	功率Power	3.2W
线圈引出方式 Coil lead form	连接器Connector	连接器Connector
负载引出方式 Load lead form	铜排Copper Bar	内螺纹Internal thread
重量 Weight	115g	150g
振动 Vibration	10~1000Hz, 2.78G	10~2000Hz, 57.9m/s ²
湿度 Humidity	5%~95%RH	5%~85%RH
环境温度 Temperature	-40°C~+85°C	-40°C~+85°C

安装尺寸(俯视)

Installation dimensions (overlooking)



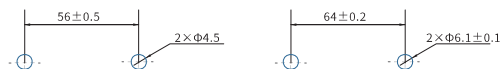
SPECIFICATION

选型参数表

	GLF60	GLFY20
型号 Type		
尺寸 mm	67×35.2×47	78×39.8×46.1
触点类型 Contact form	1H	1H
接触电阻 Contact resistance	≤5mΩ@60A	≤4.5mΩ@ 20A
动作电压 Operate voltage V DC	75%额定电压Rated voltage	≤75%额定电压Rated voltage
负载电流 Rated current	60A	20A
负载电压 Rated voltage	750V DC	1000V DC
极限分断电流 Max. breaking current	400A 450V DC 1次(op)	200A 1000V DC 1次(op)
电耐久性 Electrical endurance	通断M&B:5×10 ³ ops(60A/450V DC)	通断M&B:7.5×10 ⁴ ops(20A/450V DC)
	通断M&B:2×10 ³ ops(60A/750V DC)	通断M&B:5×10 ⁴ ops(20A/750V DC)
	通断M&B:3×10ops(120A/450V DC)	通断M&B:3×10 ⁴ ops(20A/1000V DC)
	通断M&B:5×10 ³ ops(-40A/750V DC)	通断M&B:1×10 ⁴ ops(15A/1500V DC)
		接通M:1.5×10 ⁴ ops(40A/1500V DC)
介质耐压强度 Dielectric strength	触点与线圈引出端之间 Between contacts and coil	2500V AC,(50/60 Hz 1min)
	触点之间 Between open contacts	4000V AC,(50/60 Hz 1min)
机械耐久性 Mechanical endurance	2×10 ⁵ ops	2×10 ⁵ ops
线圈 Coil	额定电压 (DC)	12V DC/24V DC
	功率Power	3.4W
线圈引出方式 Coil lead form	连接器Connector	QC Terminal
负载引出方式 Load lead form	内螺纹Internal thread	QC Terminal
重量 Weight	150g	140g
振动 Vibration	10~2000Hz,57.9m/s ²	10Hz~2000Hz,57.9m/s ²
湿度 Humidity	5%~85%RH	5%~85%RH
环境温度 Temperature	-40°C~+85°C	-40°C~+85°C

安装尺寸(俯视)

Installation dimensions (overlooking)



M&B:通断Making&breaking

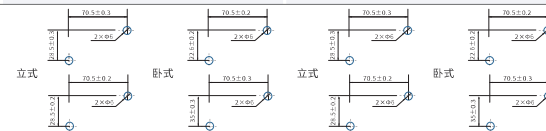
B:切断Breaking

M: 接通Making

	GLFY250	GLFY300
型号 Type		
尺寸 mm	84.9×42.5×74.5 (立式 Vertical) 88.3×42.5×74.5 (立式 Vertical) 84.9×43×74 (卧式 Horizontal) 85×43×74 (卧式 Horizontal)	84.9×42.5×74.5 (立式 Vertical) 88.3×42.5×74.5 (立式 Vertical) 84.9×43×74 (卧式 Horizontal) 85×43×74 (卧式 Horizontal)
触点类型 Contact form	1H	1H
接触电阻 Contact resistance	典型值 0.1mΩ@ 250A (初始)	典型值 0.1mΩ@ 300A (初始)
动作电压 Operate voltage V DC	≤75%额定电压Rated voltage	≤75%额定电压Rated voltage
负载电流 Rated current	250A	300A
负载电压 Rated voltage	1000V DC	1000V DC
极限分断电流 Max. breaking current	2000A 1000V DC 50ms 1次(op)	2000A 1000V DC 50ms 1次(op)
电耐久性 Electrical endurance	接通M (容性):500A 460V DC 1000uF 3000 次 接通M:250A 25V DC 100K 次 切断B:250A 1000V DC 1000 次 切断B:250A 800V DC 1500 次 切断B:350A 500V DC 500 次 切断B:20A 800V DC 100K 次	接通M (容性):500A 460V DC 1000uF 3000 次 接通M:250A 25V DC 100K 次 切断B:250A 1000V DC 1000 次 切断B:250A 800V DC 1500 次 切断B:300A 800V DC 1000 次 切断B:350A 500V DC 500 次 切断B:20A 800V DC 100K 次
	试验前Before Test:≥3000V a.c.,(50/60 Hz 1min)	试验前Before Test:≥3000V a.c.,(50/60 Hz 1min)
	试验后After Test:≥2250V a.c.,(50/60 Hz 1min)	试验后After Test:≥2250V a.c.,(50/60 Hz 1min)
	机械耐久性 Mechanical endurance	2×10 ⁵ ops
	2×10 ⁵ ops	2×10 ⁵ ops
线圈 Coil	额定电压 (DC)	12V DC/24V DC
	功率Power	7W
线圈引出方式 Coil lead form	连接器Connector	连接器Connector
负载引出方式 Load lead form	内螺纹Internal thread	内螺纹Internal thread
重量 Weight	440g	440g
振动 Vibration	10Hz~2000Hz,57.9m/s ²	10Hz~2000Hz,57.9m/s ²
湿度 Humidity	5%~85%RH	5%~85%RH
环境温度 Temperature	-40°C~+85°C	-40°C~+85°C

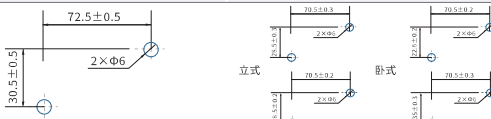
安装尺寸(俯视)

Installation dimensions (overlooking)



SPECIFICATION

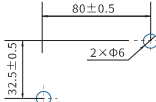
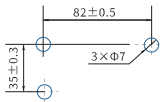
选型参数表

GLFY400		GLFY400B	
型号 Type			
尺寸 mm		91×46×85.1	84.9×42.5×74.5 (立式 Vertical) 88.3×42.5×74.5 (立式 Vertical) 84.9×43×74 (卧式 Horizontal) 85×43×74 (卧式 Horizontal)
触点类型 Contact form		1H	1H
接触电阻 Contact resistance		0.1mΩ@ 400A	≤0.3mΩ (@400A)
动作电压 Operate voltage V DC		≤75%额定电压Rated voltage	≤75%额定电压Rated voltage
负载电流 Rated current		400A	400A
负载电压 Rated voltage		1000V DC	1000V DC
极限分断电流 Max. breaking current		2000A 1000V DC 1次	2000A 1000V DC 50ms 1次(op)
电耐久性 Electrical endurance		接通M:250A 25V DC 100K 次	接通M (容性):500A 460V DC 1000uF 3000 次
		切断B:500A 800V DC 5 次	接通M:250A 25V DC 100K 次
		切断B:50A 800V DC 100K	切断B:400A 450V DC 500 次
		通断M&B:400A 800V DC 1000	切断B:400A 800V DC 150 次
			切断B:20A 800V DC 100K 次
介质耐压强度 Dielectric strength	触点与线圈引出端之间 Between contacts and coil	试验前Before Test:≥3000V a.c., (50/60 Hz 1min)	
	触点之间 Between open contacts	试验后After Test:≥2250V a.c., (50/60 Hz 1min)	
机械耐久性 Mechanical endurance		2×10 ⁵ ops	2×10 ⁵ ops
线圈 Coil	额定电压 (DC)	12V DC/24V DC	12V DC/24V DC
	功率Power	7W	7W
线圈引出方式 Coil lead form		连接器Connecto	连接器Connecto
负载引出方式 Load lead form		内螺纹Internal thread	内螺纹Internal thread
重量 Weight		500g	440g
振动 Vibration		10Hz~2000Hz, 57.9m/s ²	10Hz~2000Hz, 57.9m/s ²
湿度 Humidity		5%~85%RH	5%~85%RH
环境温度 Temperature		-40℃~+85℃	-40℃~+85℃
安装尺寸 (俯视) Installation dimensions (overlooking)			

M&B:通断 Making&breaking

B:切断 Breaking

M: 接通 Making

GLFY400C		GLFY600	
型号 Type 			
尺寸 mm	95.8×49×93		带辅助触点:98×48.5×95.4 不带辅助触点:95×48.5×95.4
触点类型 Contact form	1A		1A
接触电阻 Contact resistance	≤0.15mΩ(@200A)		≤0.2mΩ(@600A)
动作电压 Operate voltage V DC	≤75%额定电压Rated voltage		≤75%额定电压Rated voltage
负载电流 Rated current	400A		600A
负载电压 Rated voltage	1000V DC		1000V DC
极限分断电流 Max. breaking current	2000A 1000V DC 1次(op)		2000A 1000V DC 1次(op)
电耐久性 Electrical endurance	切断:20A 1000V DC 50000 次(ops)		切断:10A 1000V DC 100K次(ops) 切断:20A 1000V DC 50K 次(ops) 切断:600A 1000V DC 200次(ops) 切断:400A 450V DC 3000 次(ops) 切断:400A 450V DC 1000 次(ops) 切断:400A 1000V DC 100 次(ops) 接通:±200A 20V DC 75k 次(ops)
	切断:200A 450V DC 3000 次(ops)		
	切断:400A 450V DC 1000 次(ops)		
	切断:400A 1000V DC 100 次(ops)		
介质耐压强度 Dielectric strength	触点与线圈引出端之间 Between contacts and coil	试验前Before Test:≥3000V AC, (50/60 Hz 1min)	试验前Before Test:≥3000V AC, (50/60 Hz 1min)
	触点之间 Between open contacts	试验后After Test:≥2250V AC, (50/60 Hz 1min)	试验后After Test:≥2250V AC, (50/60 Hz 1min)
机械耐久性 Mechanical endurance	2×10 ⁵ ops		2×10 ⁵ ops
线圈 Coil	额定电压 (DC)	12V DC	12V DC/24V DC
	功率Power	8W	启动:36W 保持:6W
线圈引出方式 Coil lead form	连接器Connector&QC Terminal		连接器Connector&QC Terminal
负载引出方式 Load lead form	内螺纹Internal thread		内螺纹Internal thread
重量 Weight	660g		630g
振动 Vibration	10Hz~2000Hz, 57.9m/s ²		10Hz~2000Hz, 57.9m/s ²
湿度 Humidity	5%~85%RH		5%~85%RH
环境温度 Temperature	-40℃~+85℃		-40℃~+85℃
安装尺寸 (俯视) Installation dimensions (overlooking) 			

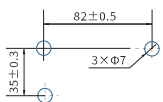
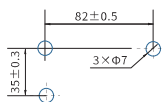
SPECIFICATION

选型参数表

		GLFY600B	GLFY600B
		单线圈	双线圈
型号 Type			
尺寸 mm		95.8×49×93	95.8×49×93
触点类型 Contact form		1A	1A
接触电阻 Contact resistance		≤0.15mΩ(@200A)	≤0.15mΩ(@200A)
动作电压 Operate voltage V DC		≤75%额定电压Rated voltage	≤75%额定电压Rated voltage
负载电流 Rated current		600A	600A
负载电压 Rated voltage		1000V DC	1000V DC
极限分断电流 Max. breaking current		2000A 1000V DC 1次(op)	2000A 1000V DC 1次(op)
电耐久性 Electrical endurance		切断:10A 1000V DC 100K次(ops)	切断:10A 1000V DC 100K次(ops)
		切断:20A 1000V DC 50K次(ops)	切断:20A 1000V DC 50K次(ops)
		切断:600A 1000V DC 50次(ops)	切断:600A 1000V DC 300次(ops)
		接通:±200A 20V DC 75k次(ops)	接通:±200A 20V DC 75k次(ops)
介质耐压强度 Dielectric strength	触点与线圈引出端之间 Between contacts and coil	试验前Before Test:≥3000V AC, (50/60 Hz 1min)	试验前Before Test:≥3000V AC, (50/60 Hz 1min)
	触点之间 Between open contacts	试验后After Test:≥2250V AC, (50/60 Hz 1min)	试验后After Test:≥2250V AC, (50/60 Hz 1min)
机械耐久性 Mechanical endurance		2×10 ⁵ ops	2×10 ⁵ ops
线圈 Coil	额定电压 (DC)	12V DC	12V DC
	功率Power	8W	启动:25W 保持:7W
线圈引出方式 Coil lead form		连接器Connector&QC Terminal	连接器Connector&QC Terminal
负载引出方式 Load lead form		内螺纹Internal thread	内螺纹Internal thread
重量 Weight		660g	640g
振动 Vibration		10Hz~2000Hz, 57.9m/s ²	10Hz~2000Hz, 57.9m/s ²
湿度 Humidity		5%~85%RH	5%~85%RH
环境温度 Temperature		-40°C~+85°C	-40°C~+85°C

安装尺寸(俯视)

Installation dimensions (overlooking)



M&B:通断Making&breaking

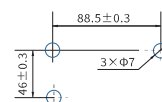
B:切断Breaking

M: 接通Making

		GLFY800
型号 Type		
尺寸 mm		105×60×93
触点类型 Contact form		1A
接触电阻 Contact resistance		<0.12mΩ@ 200A
动作电压 Operate voltage V DC		≤75%额定电压Rated voltage
负载电流 Rated current		800A
负载电压 Rated voltage		1000V DC
极限分断电流 Max. breaking current		2500A 1000V DC 1次(op)
电耐久性 Electrical endurance		接通M:200A 20V DC 1500μF 75K次(ops)
		接通M:1500A 1000V DC 1500μF 100次(ops)
		接通M:20A 1000V DC 75K次(ops)
		切断B:20A 1000V DC 75K次(ops)
介质耐压强度 Dielectric strength	触点与线圈引出端之间 Between contacts and coil	试验前(Before Test):≥3000V AC (50/60Hz 1min)
	触点之间 Between open contacts	试验后(After Test):≥2250V AC (50/60Hz 1min)
机械耐久性 Mechanical endurance		2×10 ⁵ ops
线圈 Coil	额定电压 (DC)	12V DC
	功率Power	启动Pick-up:25W 保持Holding:7W
线圈引出方式 Coil lead form		连接器Connector&QC Terminal
负载引出方式 Load lead form		内螺纹Internal thread
重量 Weight		916g
振动 Vibration		10Hz~2000Hz, 57.9m/s ²
湿度 Humidity		5%~95%RH
环境温度 Temperature		-40°C~+85°C

安装尺寸(俯视)

Installation dimensions (overlooking)



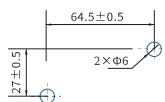
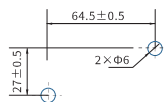
SPECIFICATION

选型参数表

	GLFX150	GLFX200
型号 Type		
尺寸 mm	80.9×39×73.2	80.9×39×73.2
触点类型 Contact form	1H	1H
接触电阻 Contact resistance	≤0.5mΩ@150A	≤0.5mΩ@200A
动作电压 Operate voltage V DC	75%额定电压Rated voltage	75%额定电压Rated voltage
负载电流 Rated current	150A	200A
负载电压 Rated voltage	800V DC	800V DC
极限分断电流 Max. breaking current	2000A 450V DC 1次(op)	2000A 450V DC 1次(op)
电耐久性 Electrical endurance	切断M&B:5×10 ³ ops(±150A/750V DC)	切断M&B:5×10 ³ ops(±200A/750V DC)
	切断M&B:1×10 ³ ops(±150A/450V DC)	切断M&B:1×10 ³ ops(±200A/450V DC)
	切断M&B:2×10 ² ops(±300A/450V DC)	切断M&B:5×10 ² ops(±300A/450V DC)
	接通M:5×10 ⁴ ops(±150A/20V DC)	接通M:5×10 ⁴ ops(±200A/20V DC)
介质耐压强度 Dielectric strength	触点与线圈引出端之间 Between contacts and coil	3000V AC,(50/60Hz 1min)
	触点之间 Between open contacts	3000V AC,(50/60Hz 1min)
机械耐久性 Mechanical endurance	2×10 ⁵ ops	2×10 ⁵ ops
线圈 Coil	额定电压(DC)	12V DC\24V DC
	功率Power	6.0W
线圈引出方式 Coil lead form	连接器Connector	连接器Connector
负载引出方式 Load lead form	内螺纹Internal thread	内螺纹Internal thread
重量 Weight	370g	370g
振动 Vibration	10~2000Hz,57.9m/s ²	10~2000Hz,57.9m/s ²
湿度 Humidity	5%~85%RH	5%~85%RH
环境温度 Temperature	-40°C~+85°C	-40°C~+85°C

安装尺寸(俯视)

Installation dimensions (overlooking)



M&B:通断Making&breaking

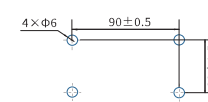
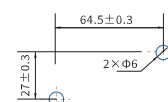
B:切断Breaking

M: 接通Making

	GLFX200D	GLFX200M
型号 Type		
尺寸 mm	76.5mm×39mm×73.2mm	102×52×73
触点类型 Contact form	1H	2H
接触电阻 Contact resistance	≤0.5mΩ@ 200A	≤0.5mΩ@200A(单组)
动作电压 Operate voltage V DC	≤75%额定电压Rated voltage	75%额定电压Rated voltage
负载电流 Rated current	200A	200A
负载电压 Rated voltage	800V DC	800V DC
极限分断电流 Max. breaking current	±2000A 450V DC 1次(op)	2000A 500V DC 1次(op)
电耐久性 Electrical endurance	阻性切断(Breaking) ±200A 450V DC 1000次(ops)	通断M&B:3.5×10 ⁴ ops(±10A/500V DC)
	阻性切断(Breaking) ±200A 750V DC 500次(ops)	接通M:7×10 ⁴ ops(±140A/20V DC)
	阻性切断(Breaking) ±300A 450V DC 100次(ops)	接通M:1×10 ⁴ ops(±140A/50V DC)
		切断B:1×10 ³ ops(±200A/500V DC)
介质耐压强度 Dielectric strength	触点与线圈引出端之间 Between contacts and coil	3000V AC,(50/60 Hz 1min)
	触点之间 Between open contacts	3000V AC,(50/60Hz 1min)
机械耐久性 Mechanical endurance	2×10 ⁵ ops	2×10 ⁵ ops
线圈 Coil	额定电压(DC)	24V DC
	功率Power	6W
线圈引出方式 Coil lead form	引出线 Lead wire	导线Lead wire
负载引出方式 Load lead form	内螺纹Internal thread	内螺纹Internal thread
重量 Weight	335g	750g
振动 Vibration	10Hz~2000Hz,57.9m/s ²	10~2000Hz,57.9m/s ²
湿度 Humidity	35%~70%RH	5%~95%RH
环境温度 Temperature	-40°C~+85°C	-40°C~+85°C

安装尺寸(俯视)

Installation dimensions (overlooking)



SPECIFICATION

选型参数表

	GLFX250	GLFX250D
型号 Type		
尺寸 mm	86×42.5×74	76.5mm×39mm×73.2mm
触点类型 Contact form	1H	1H
接触电阻 Contact resistance	≤0.5mΩ@250A	≤0.5mΩ@250A
动作电压 Operate voltage V DC	75%额定电压Rated voltage	≤75%额定电压Rated voltage
负载电流 Rated current	250A	250A
负载电压 Rated voltage	1000V DC	800V DC
极限分断电流 Max. breaking current	2000A 450V DC 1次(op)	±2000A 450V DC 1次(op)
电耐久性 Electrical endurance	通断M&B:1×10 ² ops(±250A/750V DC) 切断B:1×10 ³ ops(±250A/450V DC) 切断B:1×10 ² ops(±250A/1000V DC) 接通M:7.5×10 ⁴ ops(±140A/20V DC)	阻性切断(Breaking)±250A 450V DC 500次(ops) 阻性切断(Breaking)±250A 750V DC 200次(ops) 阻性切断(Breaking)±300A 450V DC 100次(ops)
介电耐压强度 Dielectric strength	触点与线圈引出端之间 Between contacts and coil 触点之间 Between open contacts	3000V AC,(50/60Hz 1min)
机械耐久性 Mechanical endurance	2×10 ⁵ ops	2×10 ⁵ ops
线圈 Coil	额定电压 (DC) 功率Power	12V DC\24V DC 6.0W
线圈引出方式 Coil lead form	连接器Connector&QC Terminal	引出线 Lead wire
负载引出方式 Load lead form	内螺纹Internal thread	内螺纹Internal thread
重量 Weight	400g	320g
振动 Vibration	10~2000Hz,57.9m/s ²	10Hz~2000Hz,57.9m/s ²
湿度 Humidity	5%~95%RH	35%~70%RH
环境温度 Temperature	-40°C~+85°C	-40°C~+85°C

安装尺寸(俯视)

Installation dimensions (overlooking)



M&B:通断Making&breaking

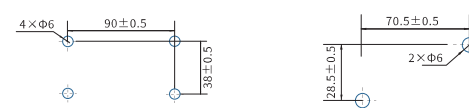
B:切断Breaking

M: 接通Making

	GLFX250M	GLFX300
型号 Type		
尺寸 mm	102×52×73	86×42.5×74
触点类型 Contact form	2H	1H
接触电阻 Contact resistance	≤0.5mΩ@250A	≤0.5mΩ@300A
动作电压 Operate voltage V DC	75%额定电压Rated voltage	75%额定电压Rated voltage
负载电流 Rated current	250A	300A
负载电压 Rated voltage	800V DC	1000V DC
极限分断电流 Max. breaking current	2000A 500V DC 1次(op)	2000A 450V DC 1次(op)
电耐久性 Electrical endurance	通断M&B:3.5×10 ⁴ ops(±10A/500V DC) 切断B:1×10 ³ ops(±250A/500V DC) 切断B:2×10 ³ ops(±250A/800V DC) 接通M:7×10 ⁴ ops(±140A/20V DC) 接通M:1×10 ⁴ ops(±140A/50V DC)	通断M&B:1×10 ² ops(±300A/750V DC) 切断B:1×10 ³ ops(±300A/450V DC) 切断B:1×10 ³ ops(±300A/1000V DC) 接通M:7.5×10 ⁴ ops(±140A/20V DC)
介电耐压强度 Dielectric strength	触点与线圈引出端之间 Between contacts and coil 触点之间 Between open contacts	3000V AC,(50/60Hz 1min)
机械耐久性 Mechanical endurance	2×10 ⁵ ops	2×10 ⁵ ops
线圈 Coil	额定电压 (DC) 功率Power	12V DC 7.0W
线圈引出方式 Coil lead form	导线Lead wire	连接器Connector&QC Terminal
负载引出方式 Load lead form	内螺纹Internal thread	内螺纹Internal thread
重量 Weight	750g	400g
振动 Vibration	10~2000Hz,57.9m/s ²	10~2000Hz,57.9m/s ²
湿度 Humidity	5%~95%RH	5%~95%RH
环境温度 Temperature	-40°C~+85°C	-40°C~+85°C

安装尺寸(俯视)

Installation dimensions (overlooking)



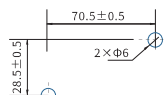
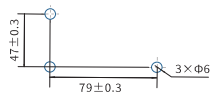
SPECIFICATION

选型参数表

	GLFX300C	GLFX400
型号 Type		
尺寸 mm	113.5×60.4×80.4	84.5×42.5×89
触点类型 Contact form	1H	1H
接触电阻 Contact resistance	≤0.3mΩ@300A	≤0.5mΩ@400A
动作电压 Operate voltage V DC	≤75%额定电压Rated voltage	75%额定电压Rated voltage
负载电流 Rated current	300A	400A
负载电压 Rated voltage	800V DC	1000V DC
极限分断电流 Max. breaking current	2500A 450V DC 1次(op)	2000A 450V DC 1次(op)
电耐久性 Electrical endurance	通断M&B:3×10 ³ ops(±300A/450V DC)	通断M&B:1×10 ³ ops(±400A/750V DC)
	通断M&B:1×10 ³ ops(±300A/750V DC)	切断B:1×10 ² ops(±400A/1000V DC)
	切断B:2×10ops(±400A/800V DC)	切断B:3×10 ³ ops(±200A/450V DC)
	接通M:7.5×10ops(±140A/20V DC)	接通M:7.5×10 ⁴ ops(±140A/20V DC)
介质耐压强度 Dielectric strength	触点与线圈引出端之间 Between contacts and coil	2500V AC,(50/60Hz 1min)
	触点之间 Between open contacts	
机械耐久性 Mechanical endurance	2×10 ⁵ ops	2×10 ⁵ ops
线圈 Coil	额定电压(DC)	12V DC\24V DC
	功率Power	启动Pick up:55W 保持Holding:6W
线圈引出方式 Coil lead form	连接器Connector	连接器Connector
负载引出方式 Load lead form	外螺纹Stud	内螺纹Internal thread
重量 Weight	640g	430g
振动 Vibration	10~2000Hz,57.9m/s ²	10~2000Hz,57.9m/s ²
湿度 Humidity	5%~85%RH	5%~95%RH
环境温度 Temperature	-40°C~+85°C	-40°C~+85°C

安装尺寸(俯视)

Installation dimensions (overlooking)



M&B:通断Making&breaking

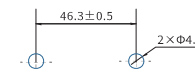
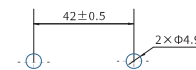
B:切断Breaking

M: 接通Making

	GL20	GL50
型号 Type		
尺寸 mm	49.6×34×58.5	53.7×39.5×63.5
触点类型 Contact form	1H	1H
接触电阻 Contact resistance	≤5mΩ@20A	≤1.5mΩ@50A
动作电压 Operate voltage V DC	75%额定电压Rated voltage	75%额定电压Rated voltage
负载电流 Rated current	20A	50A
负载电压 Rated voltage	750V DC	1000V DC
极限分断电流 Max. breaking current	600A 320V DC 1次(op)	600A 400V DC 1次(op)
电耐久性 Electrical endurance	通断M&B:5×10ops(50A/750V DC)	通断M&B:3×10 ³ ops(50A/450V DC)
	切断B:5×10ops(±20A/400V DC)	通断M&B:5×10 ² ops(50A/750V DC)
		通断M&B:5×10ops(80A/750V DC)
		通断M&B:1×10 ² ops(50A/1000V DC)
介质耐压强度 Dielectric strength	触点与线圈引出端之间 Between contacts and coil	2200V AC,(50/60 Hz 1min)
	触点之间 Between open contacts	
机械耐久性 Mechanical endurance	3×10 ⁵ ops	3×10 ⁵ ops
线圈 Coil	额定电压(DC)	12V DC\24V DC
	功率Power	12V:4.5W 24V:4.9W
线圈引出方式 Coil lead form	导线Lead wire	导线Lead wire
负载引出方式 Load lead form	外螺纹Stud	内螺纹Internal thread/外螺纹Stud
重量 Weight	130g	185g
振动 Vibration	10~2000 Hz,44.1m/s ²	10~2000 Hz,57.9m/s ²
湿度 Humidity	5%~85%RH	5%~85%RH
环境温度 Temperature	-40°C~+85°C	-40°C~+85°C

安装尺寸(俯视)

Installation dimensions (overlooking)



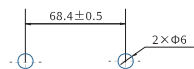
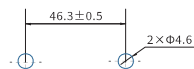
SPECIFICATION

选型参数表

		GL100	GL150
型号 Type			
尺寸 mm		53.7×39.5×63.5	80.4×57×72.5
触点类型 Contact form		1H	1H/1A
接触电阻 Contact resistance		≤1.5mΩ@100A	≤0.4mΩ@150A
动作电压 Operate voltage V DC		75%额定电压Rated voltage	75%额定电压Rated voltage
负载电流 Rated current		100A	150A
负载电压 Rated voltage		1000V DC	1000V DC
极限分断电流 Max. breaking current		800A 400V DC 1次(op)	1200A 320V DC 1次(op)
电耐久性 Electrical endurance	通断M&B:2×10 ⁴ ops(20A/750V DC)		通断M&B:1×10 ⁵ ops(200A/20V DC)
	通断M&B:3×10 ³ ops(100A/450V DC)		通断M&B:3×10 ³ ops(150A/450V DC)
	通断M&B:5×10 ³ ops(100A/750V DC)		通断M&B:1.2×10 ³ ops(150A/750V DC)
	通断M&B:1×10 ³ ops(100A/900V DC)		通断M&B:1×10 ³ ops(150A/1000V DC)
	通断M&B:5×10 ² ops(-50A/400V DC)		切断B:2×10ops (-150A/320V DC) 切断B:3ops (-50A/750V DC)
介质耐压强度 Dielectric strength	触点与线圈引出端之间 Between contacts and coil	2500V AC,(50/60 Hz 1min)	2500V AC,(50/60 Hz 1min)
	触点之间 Between open contacts		
机械耐久性 Mechanical endurance		3×10 ⁵ ops	3×10 ⁵ ops
线圈 Coil	额定电压 (DC)	12V DC\24V DC	12V DC\24V DC\12~36V DC
	功率Power	12V:5.5W 24V:5.8W	12v:启动Pick up:46W;保持Holding:2.8W 24v:启动Pick up:37.6W;保持Holding:2.2W 12~36v:启动Pick up:27W;保持Holding:2W
线圈引出方式 Coil lead form		导线Lead wire	导线Lead wire
负载引出方式 Load lead form		内螺纹Internal thread/外螺纹Stud	内螺纹Internal thread/外螺纹Stud
重量 Weight		185g	380g
振动 Vibration		10~2000 Hz, 57.9m/s ²	10~2000 Hz, 57.9m/s ²
湿度 Humidity		5%~85%RH	5%~95%RH
环境温度 Temperature		-40°C~+85°C	-40°C~+85°C

安装尺寸 (俯视)

Installation dimensions (overlooking)



M&B:通断Making&breaking

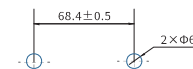
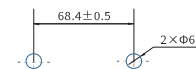
B:切断Breaking

M: 接通Making

		GL200	GL250
型号 Type			
尺寸 mm		80.4×57×72.5	80.4×57×72.5
触点类型 Contact form		1H/1A	1H/1A
接触电阻 Contact resistance		≤0.4mΩ@200A	≤0.4mΩ@250A
动作电压 Operate voltage V DC		75%额定电压Rated voltage	75%额定电压Rated voltage
负载电流 Rated current		200A	250A
负载电压 Rated voltage		1000V DC	1000V DC
极限分断电流 Max. breaking current		1200A 320V DC 1次(op)	1600A 320V DC 1次(op)
电耐久性 Electrical endurance	通断M&B:1×10 ⁵ ops(200A/20V DC)		通断M&B:1×10 ⁵ ops(200A/20V DC)
	通断M&B:2×10 ³ ops(200A/450V DC)		通断M&B:1×10 ³ ops(250A/450V DC)
	通断M&B:1×10 ³ ops(200A/600V DC)		通断M&B:6×10 ² ops(250A/750V DC)
	通断M&B:6×10 ² ops(200A/1000V DC)		通断M&B:4×10 ² ops(250A/1000V DC)
	切断B:5×10ops (250A/750V DC) 切断B:1.2×10ops (-200A/320V DC)		切断B:1.2×10ops (-250A/320V DC)
介质耐压强度 Dielectric strength	触点与线圈引出端之间 Between contacts and coil	2500V AC,(50/60 Hz 1min)	2500V AC,(50/60 Hz 1min)
	触点之间 Between open contacts		
机械耐久性 Mechanical endurance		3×10 ⁵ ops	3×10 ⁵ ops
线圈 Coil	额定电压 (DC)	12V DC\24V DC\12~36V DC	12V DC\24V DC\12~36V DC
	功率Power	12v:启动Pick up:46W;保持Holding:2.8W 24v:启动Pick up:37.6W;保持Holding:2.2W 12~36v:启动Pick up:27W;保持Holding:2W	12v:启动Pick up:46W;保持Holding:2.8W 24v:启动Pick up:37.6W;保持Holding:2.2W 12~36v:启动Pick up:27W;保持Holding:2W
线圈引出方式 Coil lead form		导线Lead wire	导线Lead wire
负载引出方式 Load lead form		内螺纹Internal thread/外螺纹Stud	内螺纹Internal thread/外螺纹Stud
重量 Weight		380g	380g
振动 Vibration		10~2000 Hz, 57.9m/s ²	10~2000 Hz, 57.9m/s ²
湿度 Humidity		5%~85%RH	5%~85%RH
环境温度 Temperature		-40°C~+85°C	-40°C~+85°C

安装尺寸 (俯视)

Installation dimensions (overlooking)



SPECIFICATION

选型参数表

	GL350	GL600
型号 Type		
尺寸 mm	80.4×57×72.5	86.4×66.8×120.8
触点类型 Contact form	1H/1A	1H
接触电阻 Contact resistance	≤0.4mΩ@350A	≤0.2mΩ@600A
动作电压 Operate voltage V DC	75%额定电压Rated voltage	82.5%额定电压Rated voltage
负载电流 Rated current	350A	600A
负载电压 Rated voltage	750V DC	1000V DC
极限分断电流 Max. breaking current	2000A 320V DC 1次(op)	3300A 320V DC 1次(op)
电耐久性 Electrical endurance	通断M&B:4×10 ² ops(350A/450V DC)	通断M&B:5×10 ² ops(600A/750V DC)
	通断M&B:2×10 ³ ops(350A/750V DC)	通断M&B:1×10 ³ ops(600A/450V DC)
	切断B:5×10ops(400A/750V DC)	切断B:2×10 ² ops(800A/750V DC)
	切断B:1.2×10ops(-300A/320V DC)	通断M&B:4×10 ² ops(-600A/750V DC)
介质耐压强度 Dielectric strength	触点与线圈引出端之间 Between contacts and coil	2500V AC,(50/60 Hz 1min)
	触点之间 Between open contacts	
机械耐久性 Mechanical endurance	3×10 ⁵ ops	2×10 ⁵ ops
线圈 Coil	额定电压(DC)	12V DC\24V DC\12~36V DC
	功率Power	12v:启动Pick up:46W;保持Holding:2.8W 24v:启动Pick up:37.6W;保持Holding:2.2W 12~36v:启动Pick up:27W;保持Holding:2W
线圈引出方式 Coil lead form	导线Lead wire	导线Lead wire+连接器Connector
负载引出方式 Load lead form	内螺纹Internal thread/外螺纹Stud	外螺纹Stud
重量 Weight	380g	1300g
振动 Vibration	10~2000 Hz, 57.9m/s ²	10~2000 Hz, 4.5G
湿度 Humidity	5%~85%RH	5%~95%RH
环境温度 Temperature	-40°C~+85°C	-40°C~+85°C

安装尺寸(俯视)

Installation dimensions (overlooking)



M&B:通断Making&breaking

B:切断Breaking

M: 接通Making

	GLFWH150	GLFWH250
型号 Type		
尺寸 mm	76×36×73.2	118×70×105.2
触点类型 Contact form	1H	1A
接触电阻 Contact resistance	≤0.5mΩ@150A	≤0.2mΩ@250A
动作电压 Operate voltage V DC	75%额定电压Rated voltage	75%额定电压Rated voltage
负载电流 Rated current	150A	250A
负载电压 Rated voltage	1500V DC	1500V DC
极限分断电流 Max. breaking current	1500A 450V DC 1次(op)	2000A 750V DC 1次(op)
电耐久性 Electrical endurance	通断M&B:2×10 ³ ops(±150A/450V DC)	通断M&B:6×10 ³ ops(±100A/1500V DC)
	通断M&B:1×10 ³ ops(±150A/750V DC)	通断B:1×10 ³ ops(±250A/1500V DC)
	通断M&B:1×10 ² ops(±200A/450V DC)	切断B:1×10 ³ ops(±1000A/900V DC)
	接通M:1.1×10 ⁴ ops(±30A/1500V DC)	
介质耐压强度 Dielectric strength	触点与线圈引出端之间 Between contacts and coil	4000V AC,(50/60 Hz 1min)
	触点之间 Between open contacts	
机械耐久性 Mechanical endurance	3×10 ⁵ ops	2×10 ⁵ ops
线圈 Coil	额定电压(DC)	12V DC/24V DC
	功率Power	6.7W
线圈引出方式 Coil lead form	导线Lead wire	连接器Connector
负载引出方式 Load lead form	外螺纹Stud	外螺纹Stud
重量 Weight	340g	1300g
振动 Vibration	10~2000Hz, 57.9m/s ²	10~2000Hz, 57.9m/s ²
湿度 Humidity	5%~85%RH	5%~85%RH
环境温度 Temperature	-40°C~+85°C	-40°C~+85°C

安装尺寸(俯视)

Installation dimensions (overlooking)



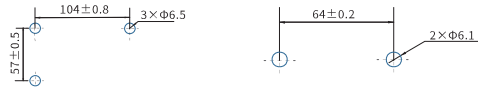
SPECIFICATION

选型参数表

	GLFWH350	GLFYP20
型号 Type		
尺寸 mm	118×70×105.2	78×39.8×46.1
触点类型 Contact form	1A	1H
接触电阻 Contact resistance	≤0.2mΩ@350A	≤4.5mΩ@20A
动作电压 Operate voltage V DC	75%额定电压Rated voltage	≤75%额定电压Rated voltage
负载电流 Rated current	350A	20A
负载电压 Rated voltage	1500V DC	1500V DC
极限分断电流 Max. breaking current	2000A 750V DC 1次(op)	200A 1000V DC 1次(op)
电耐久性 Electrical endurance	通断M&B:6×10 ³ ops(±100A/1500V DC)	通断M&B:7.5×10 ⁴ ops(20A/450V DC)
	切断B:1×10 ³ ops(±350A/1500V DC)	通断M&B:5×10 ⁴ ops(20A/750V DC)
	切断B:1×10 ² ops(±1000A/900V DC)	通断M&B:3×10 ⁴ ops(20A/1000V DC)
介质耐压强度 Dielectric strength	触点与线圈引出端之间 Between contacts and coil	通断M&B:1×10 ⁴ ops(15A/1500V DC)
	触点之间 Between open contacts	接通M:1.5×10 ⁴ ops(40A/1500V DC)
机械耐久性 Mechanical endurance	5000V AC,(50/60 Hz 1min)	4000V AC,(50/60 Hz 1min)
线圈 Coil	额定电压(DC)	2×10 ⁵ ops
	功率Power	12V DC/24V DC
线圈引出方式 Coil lead form	启动Pick up:62.6W 保持Holding:5.3W	12V DC/24V DC
负载引出方式 Load lead form	连接器Connector	QC Terminal
重量 Weight	外螺纹Stud	QC Terminal
振动 Vibration	1300g	140g
湿度 Humidity	10~2000Hz,57.9m/s ²	10Hz~2000Hz,57.9m/s ²
环境温度 Temperature	5%~85%RH	5%~85%RH
	-40°C~+85°C	-40°C~+85°C

安装尺寸(俯视)

Installation dimensions (overlooking)



M&B:通断Making&breaking

B:切断Breaking

M: 接通Making

	GLFYP250	GLFYP400
型号 Type		
尺寸 mm	104×70×107.9	104×70×107.9
触点类型 Contact form	1A	1A
接触电阻 Contact resistance	≤0.2mΩ(@200A)	≤0.2mΩ(@200A)
动作电压 Operate voltage V DC	≤75%额定电压Rated voltage	≤75%额定电压Rated voltage
负载电流 Rated current	250A	400A
负载电压 Rated voltage	1500V DC	1500V DC
极限分断电流 Max. breaking current	1500A 1000V DC 1次(op) 1000A 1500V DC 1次(op)	2000A 1000V DC 1次(op) 1000A 1500V DC 1次(op)
电耐久性 Electrical endurance	通断M&B:6×10 ³ ops(±100A/1500V DC, L/R<1ms)	通断M&B:6×10 ³ ops(±100A/1500V DC, L/R<1ms)
	切断B:2×10 ³ ops(±150A/1500V DC, L/R<1ms)	切断B:3.2×10 ³ ops(±150A/1500V DC, L/R<1ms)
	切断B:1×10 ³ ops(±250A/1500V DC, L/R<1ms)	切断B:1×10 ³ ops(±250A/1500V DC, L/R<1ms)
介质耐压强度 Dielectric strength	触点与线圈引出端之间 Between contacts and coil	试验前Before Test:≥5000V a.c.,(50/60 Hz 1min)
	触点之间 Between open contacts	试验后After Test:≥3000V a.c.,(50/60 Hz 1min)
机械耐久性 Mechanical endurance	2×10 ⁵ ops	2×10 ⁵ ops
线圈 Coil	额定电压(DC)	12/24V DC
	功率Power	12/24V DC
线圈引出方式 Coil lead form	启动Pick-up:50W 保持Holding:5W	启动Pick-up:50W 保持Holding:5W
负载引出方式 Load lead form	连接器Connector&QC Terminal	连接器Connector&QC Terminal
重量 Weight	内螺纹Internal thread	内螺纹Internal thread
振动 Vibration	1150g	1150g
湿度 Humidity	双振幅 1.5 mm, 频率 10 Hz~55 Hz	双振幅 1.5 mm, 频率 10 Hz~55 Hz
环境温度 Temperature	5%~95%RH	5%~95%RH
	-40°C~+85°C	-40°C~+85°C

安装尺寸(俯视)

Installation dimensions (overlooking)



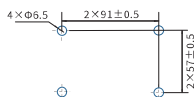
SPECIFICATION

选型参数表

GLFYP600		
型号 Type		
尺寸 mm	104×70×107.9	
触点类型 Contact form	1A	
接触电阻 Contact resistance	≤0.2mΩ(@200A)	
动作电压 Operate voltage V DC	≤75%额定电压Rated voltage	
负载电流 Rated current	600A	
负载电压 Rated voltage	1500V DC	
极限分断电流 Max. breaking current	2000A 1000V DC 1 次(op) 1000A 1500V DC 1 次(op)	
电耐久性 Electrical endurance	通断M&B:6×10 ³ ops(±100A/1500V DC, L/R<1ms)	
	切断B:500ops(±300A/1500V DC, L/R<1ms)	
	切断B:200ops(±600A/1500V DC, L/R<1ms)	
介质耐压强度 Dielectric strength	触点与线圈引出端之间 Between contacts and coil	试验前 Before Test: ≥5000V a.c., (50/60 Hz 1min)
	触点之间 Between open contacts	试验后 After Test: ≥3000V a.c., (50/60 Hz 1min)
机械耐久性 Mechanical endurance		2×10 ⁵ ops
线圈 Coil	额定电压(DC)	12/24V DC
	功率Power	启动Pick-up:50W 保持Holding:5W
线圈引出方式 Coil lead form		连接器Connector&QC Terminal
负载引出方式 Load lead form		内螺纹Internal thread
重量 Weight		1170g
振动 Vibration		双振幅 1.5 mm, 频率 10 Hz~55 Hz
湿度 Humidity		5%~95%RH
环境温度 Temperature		-40℃~+85℃

安装尺寸(俯视)

Installation dimensions (overlooking)



M&B:通断 Making & breaking

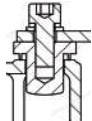
B:切断 Breaking

M: 接通 Making

OPERATING INSTRUCTIONS

使用说明

- ▶ 当接触器使用1个或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、螺钉。不正确的连接顺序可能造成严重过热。
When contactor is connected with one or more busbars, please ensure that the busbars are tightly fitted to the contact terminal face (when there are multiple busbars, please ensure that the busbar with large current is closest to the contact terminal face, and the busbars with low current come next), then the flat washer, spring washer and screw. Incorrect connection order can cause severe overheating.

产品类型 Contact type	连接示意图 Connection diagram	
内螺纹 Internal Thread		螺钉 Screw 弹垫 Spring washer 平垫 Plain washer 导电铜排 (或电缆引出片) Electric conduction copper busbar (or cable leading-out terminal) 触点端面 Contactor surface
外螺纹 Stud		螺栓 Stud 螺母 Nut 弹垫 Spring washer 平垫 Plain washer 铜排 (或电缆引出片) Copper busbar (or cable leading-out terminal) 触点端面 Contactor surface

- ▶ 安装时请避免附着异物、油脂类及腐蚀性液体, 否则会导致接触器触点端发热异常。
Please avoid foreign bodies, grease or corrosive liquids during installation, otherwise it will lead to abnormal heating at contact terminals.
- ▶ 请避免在强磁场(变压器、磁铁的周围)和发热物体的附近安装。
Please avoid installation in strong magnetic field (around the transformers, the magnet) and the heating objects nearby.
- ▶ 接触器安装的锁紧力矩请控制在规定范围内, 超过范围可能导致螺纹损坏。
Please control the tightening torque during installation within the specified range, exceeding the range may cause thread damage.
- ▶ 在接触器线圈端并联续流二极管作为抑制反向电压的措施, 会延长接触器释放时间, 导致产品切断性能有所下降。推荐使用钳位电压为线圈额定电压1.5倍以上的双向稳压二极管、TVS管等抑制线圈反向过电压。
A parallel connection with diode for coil suppression can slow the release time of contactor, which may affect the break performance. Zener diode or TVS (Transient Voltage Suppressor) is recommended for back EMF suppression, but the clamp voltage of it should be 1.5 times larger than the coil rated voltage.
- ▶ 接触器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。
In a capacitive load, please pre-charge the capacitive load to make sure voltage difference less than 20V when contactor pick up. The contactor may have a contact welding without such action.