

继电器产品规格书

SPECIFICATION FOR APPROVAL

客户名称 Customer name: _____

产品名称 Product Description: 继电器 Relay

供方型号 Supplier Part No.: RHD63

客户料号 Customer Material Code: _____

客户型号 Customer Part No.: _____

版 本 REV: _____

日 期 Date: 2021-10-08

供应 厂商	制定	审核	批准
	曹欣	吴俊超	姚路光
客户 确认	开发/工程 审核	品质部 审核	批准

RHD63

磁保持继电器 Latching Relay

触点参数Contact Data

触点形式Contact configuration	1A、1B
接触电阻Contact resistance	Initial (初始值) $\leq 1\text{ m}\Omega$
触点负载 (阻性) Contact rating (Resistive)	63A 250VAC
触点材料Contact material	银氧化锡AgSnO ₂ :(Ag:83.5~86.5%, SnO ₂ : 13.5~16.5%)
最大切换电压Maximum switching voltage	277VAC
最大切换电流Maximum Switching Current	63A
最大切换功率Maximum switching power	15750VA
最大短路电流Max Short-circuit current	2,500A 10ms 能正常工作 2500A 10ms can work normally, 4,500A 10ms 不燃烧、不爆炸, 4500A 10ms does not burn and explode
机械寿命Mechanical life	100000次 operations Min
电气寿命Electrical life	5000次 operations Min

线圈参数 Coil Data Approx

额定电压 Nominal Votag (VDC)	动作电压 Operate voltage (VDC)	释放电压 Release voltage (VDC)	线圈功率 Coil power (W)		线圈电阻 Coil resistance (Ω)	
			单线圈 Single Coil	双线圈 Dual Coil	单线圈 Single Coil	双线圈 Dual Coil
9	$\leq 75\%$ 额定电压 $\leq 75\%$ Rated Voltage		约1W Approx. 1W	约2W Approx. 2W	81x(1 $\pm$ 10%)	40.5/40.5x(1 $\pm$ 10%)
12					144x(1 $\pm$ 10%)	72/72x(1 $\pm$ 10%)
24					576x(1 $\pm$ 10%)	288/288x(1 $\pm$ 10%)

备注 (notes) :(1)使用环境温度范围 -40~85℃ Temperature range -40~85℃

通用参数General Specification

绝缘阻抗 Insulation resistance		1000M Ω (500VDC)
介质耐压 Initial dielectric strength	线圈与触点间 between contact and coil	4000VAC 1min
	断开触点间 between open contacts	1500VAC 1min
动作时间 Operate time		$\leq 10\text{ms}$
释放时间 Release time		$\leq 8\text{ms}$
*抗冲击Shock resistance	误动作 Erroroperation	加速度980m/s ²
	耐久性Endurance	加速度98m/s ²
*抗振动性 Vibration resistance	误动作 Erroroperation	双振幅为1.5mm, 频率10~55HZ
	耐久性Endurance	双振幅为1.5mm, 频率10~55HZ
环境温度 Ambient temperature		-40~85℃
环境湿度Ambient humidity		5~85%RH
重量Weight		约 36.5g, Approx. 36.5g
封装类型Packaging type	Flux-tight防焊剂型 Sealed case(Washable)完全密封型	
耐寒性Cold resistance	在-40℃ $\pm 2^\circ\text{C}$ 温度下放置240H, 后在标准温度下放置2H, 结构、性能正常	
耐热性Heat resistanc	在85℃ $\pm 2^\circ\text{C}$ 温度下240H, 后在标准温度下放置2H, 结构和性能正常	
耐湿性Moisture resistance	在40℃, 湿度90%环境下240H, 后在标准条件下放置2H, 绝缘电阻最小10M Ω , 结构和性能无异常	

备注 (notes) :*是非长度度方向测试Non length direction test

端子性能Terminal characteristics

端子强度Terminal strength	在端子上施加5N压力10秒钟，无变形现象。 5N pushed into any terminals for 10 s. There shall be no abnormalities. (The curving of the terminals shall be acceptable)
端子可焊性 Terminal solderability	端子浸入260±5℃焊锡槽中，时间5±0.5 s，90%部位应该上锡。 In case of lead free solder 260±5℃, 5±0.5 s , 90% of the dipped portion shall be soldered
耐焊接热 Soldering thermal	端子浸入260±5℃焊锡槽中，时间10±1 s，结构和性能无异常。 No any trouble on construction or characteristic. When dipped into solder bath 260±5℃, 10±1s.

标准测试条件Standard test condition

储存条件Storage condition

环境温度Ambient temperature	23±5℃	环境温度Ambient temperature	15 ~ 35℃
相对湿度Relative humidity	25% ~ 75%	相对湿度Relative humidity	25% ~ 85%
气压Air pressure	86 ~ 106kPa	备注（notes）：1.不要储存在诸如硫化氢和盐雾气体等有腐蚀性的环境中Store in locations where the product or container is not expose to corrosive gas such as hydrogen sulfide or salty air. 2.储存在没有可视尘埃的环境中。Store in locations where no visible dust exists. 3.储存在没有直射阳光的环境中Store in locations not subject to direct sunlight.	
测试位置Direction of Test	端子下朝 Terminals down position		

包装信息Packing Information

型号 Tpye	内包装 Inner packing	外箱尺寸 Carton Dimensions L×W×H (cm)	QTY (PCS) /carton	净重 Net weight (Kg)	毛重 Gross weight (Kg)
YWE63	PCS/盒 PCS/box	36.5x33x21.5	256	9.3	10.2

产品命名 Product naming

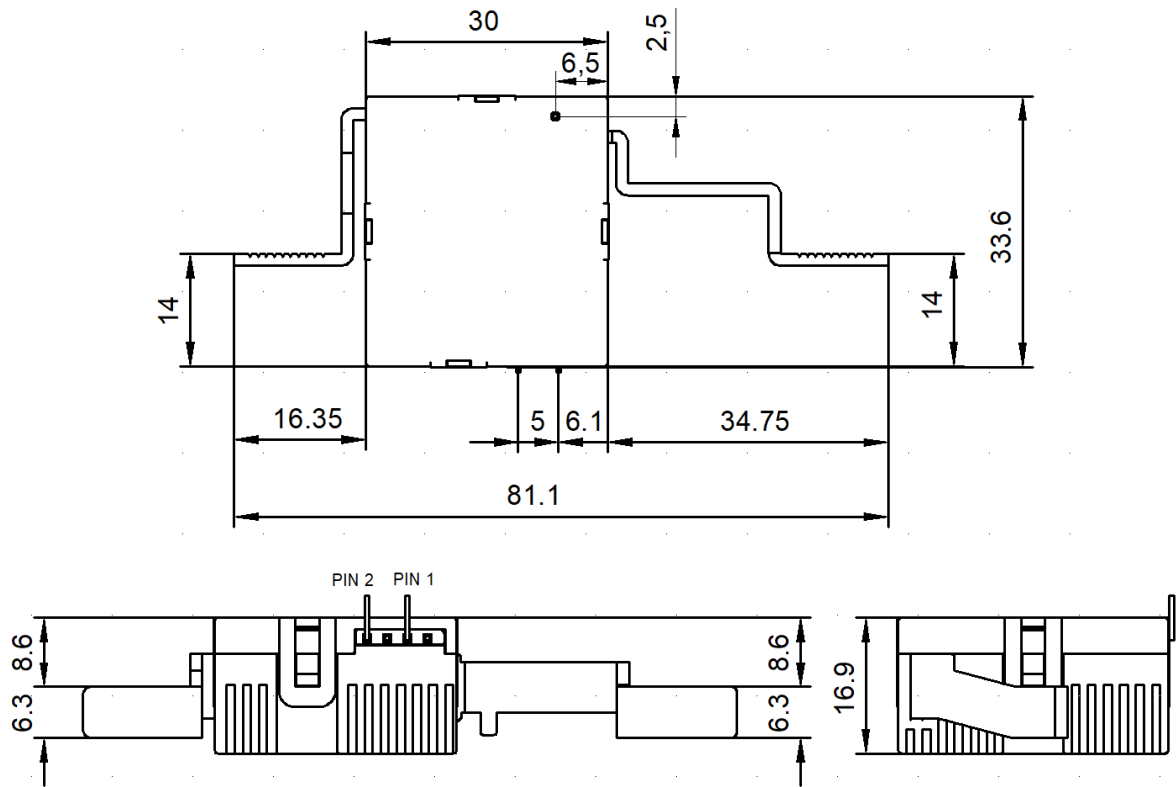
RHD63	-	D	12	B	R	P1	(XXX)
1		2	3	4	5	6	7

1. 产品型号Product type:YWE63
2. 线圈功率Coil power: D:双线圈2W Dual Coil 2W S: Single Coil 1W 单线圈1W
3. 线圈额定电压Coil Nominal Voltage:
06—6VDC 09—9VDC 12—12VDC 24—24VDC 48—48VDC
4. 触点型式Contact arrangement: A:常开型 1Form A B:常闭型 1Form B
5. 线圈极性Coil polarity : Blank:正极性positive polarity R:反极性reversed polarity
6. 附件attachment :
Blank:不带附件Without attachments P1:带定位针+红色导线 With positioning needle+Red Line
7. 特性号Characteristic number
XXX:客户特殊要求 Customer specific requirements Blank:标准型 Standard type

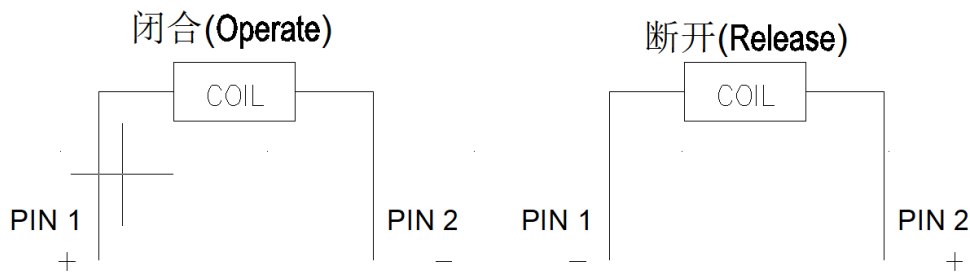
备注note:
(1) 带附件产品可根据客户要求订做;
Products with accessories can be customized according to customer requirements
(2) 客户特殊要求 (XXX) , 由我司评估后, 按特性符号标识。
Special requirements of customers (XXX) shall be evaluated by our company and marked by characteristic symbols
(3)在各标识间隔之间可以用“-”、“~”、“/”、“\”、“.”、“.”等符号隔开不影响表达描述。
Symbols such as “-”、“~”、“/”、“\”、“.”、“.” can be used to separate the intervals between each identifier without affecting the expression and description.

外形图、接线图、安装孔尺寸 Outline drawing, wiring diagram, mounting hole dimensions

外形图 Outline drawing(单位mm)



接线图 Wiring Diagram



备注: (1) 产品未标注尺寸公差, 当外形尺寸 $\leq 10\text{mm}$, 公差 $\pm 0.4\text{mm}$; 当外形尺寸在 $10\text{--}50\text{mm}$ 时, 公差为 $\pm 0.6\text{mm}$, 当外形尺寸 $> 50\text{mm}$ 时, 公差为 $\pm 0.8\text{mm}$

(2) 脉冲宽度必须大于吸合/释放时间的5倍, 不能长时间 (大于1分钟) 给继电器线圈通电, 否则会有烧毁线圈的风险

Note:

(1) The product does not indicate dimensional tolerances. When the external dimensions are $\leq 10\text{mm}$, the tolerance is $\pm 0.4\text{mm}$; When the external dimensions are between $10\text{--}50\text{mm}$, the tolerance is $\pm 0.6\text{mm}$, and when the external dimensions are greater than 50mm , the tolerance is $\pm 0.8\text{mm}$;

(2) The pulse width must be greater than 5 times the suction/release time, and the relay coil cannot be energized for a long time (greater than 1 minute), otherwise there is a risk of burning the coil