PRODUCT SPECIFICATIONS

Specifications NO: YMT-665-20082

	☐ For Approval	☐ For Estimation	For Reference
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CUSTOMER: KHAI MINH ELECTRIC TECHNOLOGY JSC

PRODUCT : EV RELAY

MODEL: EVHB100A-24S/G

	Pr	ocess	Date
	검토 (Inspected by)		
승인 (Approval)	심사 (Checked by)		
	승인 (Approved)		

상기와 같이 승인원을 제출하오니 검토하여 승인하여 주시기 바랍니다.

DATE: 2020. 10. 23



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NAME EVHB100A-24S			
1. Type	EVHB100		
2. Code No.	EVHB100A-24S/	G	
3. Characteristics			
3.1 Coil data	EVHB100A-24S/0	;	
1) Nominal voltage 2) Pick-Up voltage(initial, at 20°C) 3) Drop-out voltage(initial, at 20°C) 4) Holding Voltage(initial, at 20°C) 5) Inrush current (initial, at 20°C) 6) Holding Current (initial, at 20°C)	DC24V ≤ 18V ≥2.4V ≤12V 0.27A 0.27A		
3.2 Main Contacts data			
1) Arrangement	1NO		
2) Rated insulation voltage Ui	1,500V		
3) Rated impulse withstand voltage	Uimp 8KV		
4) Conventional free air thermal curr	rent Ith 100A(38mm²)		
5) Utilization category	Resistor		
6) Rated operational voltage and rat operational current for each utilization category Ue/Ie			
7) Max switching Capacity	1000Vdc 80A		
8) Min. permissible load	12V 0.5A		
9) Contact Resistance	Max. 1mΩ(At 20/	A)	
	Designed Kiw	n Beom Si	Ŕ
(주)와이엠텍 YM Tech Co., Ltd	Checked		
		Hyun Kil	

TITLE

Specification for EV Relay

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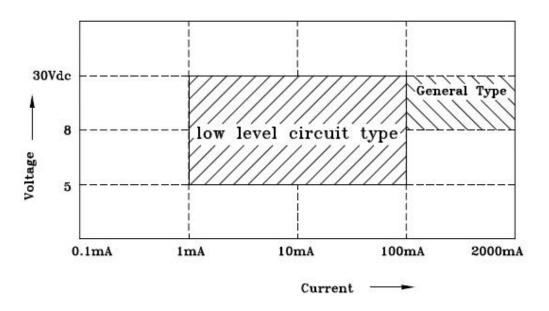
NAME

EVHB100A-24S

3.3 Aux. contact

1) Aux. contact current Max. for gold (option: /G) 100mA 30VDC

2) Aux. contact current Min. for gold (option: /G) 1mA 5VDC



3.4 Life

1) . Electrical life

Voltage	Voltage Current		Remark
300Vac 100A		6,000	Resistor
400V DC	100A	6000	Resistor
440V DC	120A	1,000	Resistor
800V DC	80A	6,000	Resistor
1000V DC	20A	6,000	Resistor



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2) Reverse direct 3) Mechanical lift 3.5 Withstand vo 1) Between ope 2) Between confi 3) Initial insulation 3.6 Operation tire 3.7 Release time 3.8 Tightening To	Itage n contacts acts and coil on resistance		etection cur etection cur	,		
3) Mechanical lift 3.5 Withstand vo 1) Between ope 2) Between conf 3) Initial insulation 3.6 Operation tire 3.7 Release time 3.8 Tightening To	fe Iltage In contacts Eacts and coil on resistance	(The same as electrical life 500,000 times (at 15cpm) AC4,500Vrms for 1 min.(De AC2,500Vrms for	etection cur etection cur	,		
3.5 Withstand vo. 1) Between ope 2) Between conf. 3) Initial insulation 3.6 Operation time 3.7 Release time 3.8 Tightening To	Itage n contacts acts and coil on resistance	AC4,500Vrms for 1 min.(DeAC2,500Vrms for 1 min.(De	etection cur	,		
1) Between ope 2) Between conf 3) Initial insulation 3.6 Operation tire 3.7 Release time 3.8 Tightening To	n contacts cacts and coil on resistance	AC2,500Vrms for 1 min.(D	etection cur	,		
2) Between conf 3) Initial insulation 3.6 Operation tin 3.7 Release time 3.8 Tightening To	acts and coil	AC2,500Vrms for 1 min.(D	etection cur	,		
3) Initial insulation 3.6 Operation tir 3.7 Release time 3.8 Tightening To	on resistance			rent : 5mA)		
3.6 Operation tir3.7 Release time3.8 Tightening To		More than $100M\Omega$ (DC 500	N/ N4E00E	AC2,500Vrms for 1 min.(Detection current : 5mA)		
3.7 Release time 3.8 Tightening To	ne		More than $100M\Omega$ (DC $500V$ MEGGER)			
3.8 Tightening To		Less than 25ms (at 20°C and nominal voltage)				
		Less than 10ms (at 20℃ a	nd nominal	voltage)		
0.0144.1.14	orque	1.6 ~ 2.1Nm(Mounting) 3.4 ~ 4.5Nm(Main terminal)			
3.9 Weight		180g				
3.10 Vibration re	sistance					
1) Functional		98m/s ² (10G)(10 ~ 500Hz,	Detection ti	me :10us)		
2) Destructive		196m/s² (20G)				
3.11 Shock resis	tance					
1) Functional		196m/s² (20G)				
2) Destructive		490m/s ² (50G)				



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NAME **EVHB100A-24S**

- 5.3 If the relay is dropped onto a hard surface, it should not be used again.
- 5.4 Take care to avoid cross connections as they may cause malfunctions or overheating
- 5.5 When the screws for fixing relay body and for additional nuts for additional terminal are tightened, it should be used within the range of decided torque.
- 5.6 If the several relays are mounted closely or a heat-generation object is close to the relay, take care to check the abnormal temperature-rise and the insulation distance between the terminals outside of the relay.
- 5.7 If you use an inductive load(L load) such that L/R > 0.5ms, add surge protection in parallel with the inductive load. If this is not done, the electrical life will decrease and a failure of breaking a circuit may occur.
- 5.8 Use the suitable wire or bus bar according to the current.
- 5.9 Take care to disconnect to the power supply when wiring.
- 5.10 Do not use this product in such atmosphere where any kind of organic solvent(as benzene, thinner an alcohol) and the strong alkali(as ammonia and caustic soda) might be adhered to this product.
- 5.11 Be careful that oils and foreign matter do not stick to main terminal parts because it is likely to cause a terminal part to give off unusual heat.
- 5.12 We are striving to improve quality and the reliability. The things such as electric, mechanic performance, external dimension and assembled dimension may be changed without notice in order to improve quality.
- 6. Warranty
- 6.1 The warranty period of this product is one year from the date of arrival of the product at the location of the purchaser, and is limited to the listed items on the specification.



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Specification for EV Relay

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NAME **EVHB100A-24S**

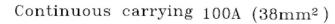
6.2 Warranty Scope

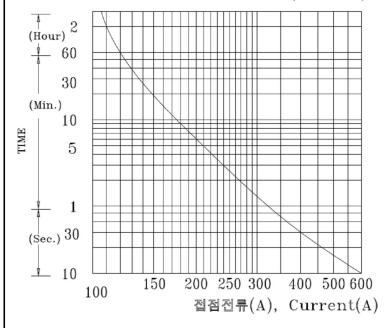
If upon arrival any defect due to YM tech's failure to perform become apparent, YM tech will replace, exchange or repair the defective product on the where was received.

- 6.3 The following are excluded from the warranty condition;
- 1). Damage caused by relay problem or failure.
- A natural or manmade disaster which is outside of YM Tech's control occurs such as earthquake, flood, fire or social strife.

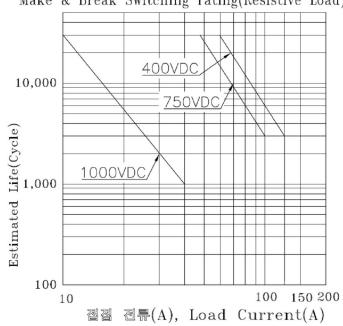
Reference:

- 1. Temperature rise(at 20°C and nominal voltage)
- 2. Estimated electrical life (at 20°C and nominal voltage)
- 3. Drawing of dimension





Make & Break Switching rating(Resistive Load)





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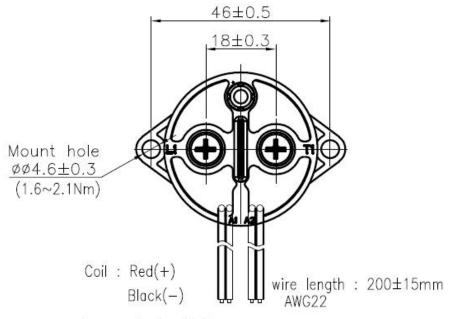
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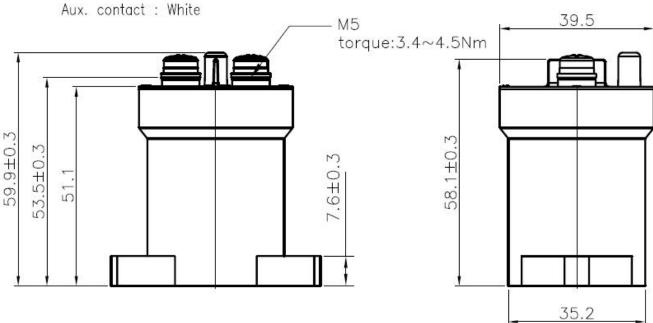
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NAME EVHB100A-24S



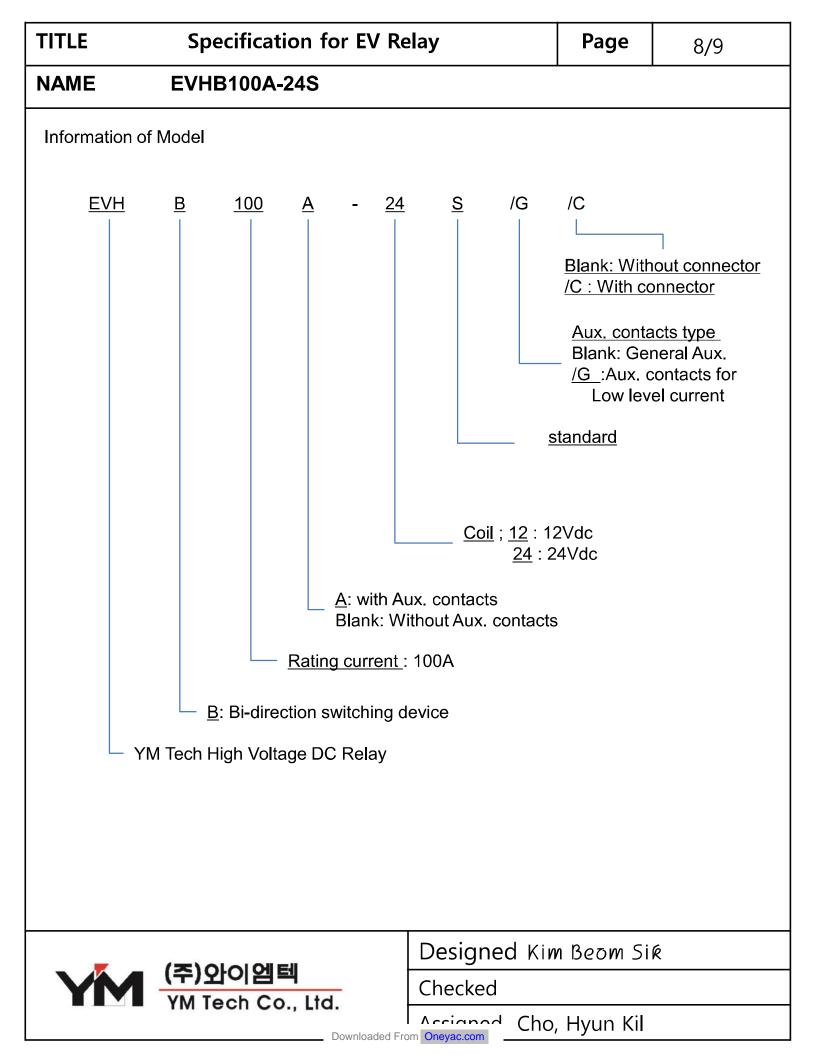




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单击下面可查看定价,库存,交付和生命周期等信息

>>YMTech(上海世携)