



12 to 750 Vdc/Vac

Sealed HV DC/AC Contactor - 150Amp Power Switching RoHS Compliant



Features

- Ceramic to metal seal rated to 175℃-Reduced risk of fire or meltdown in over-current conditions.
- Hermetic Seal Designed to meet UL1604 for Class I & II, Div 2 and Class III for use in hazardous locations, IP67 for temporary water immersion for 30 min, SAE J1171 - external ignition protection, and ISO8846 for protection against ignition around flammable gasses.
- High Efficiency Coils –Coil with PWM economizer can lower power cost and it limits back EMF to 0V. The contactor can keep contact with very low coil power supply.
- No Exposed Coil Electronics The GL150 can operate almost anywhere, even under water – the coil electronics is fully sealed.
- Fully RoHS Compliant The GL150 is fully compliant and is better for the environment and future generations.

Product specifications

Parameter	Ratings
Contact Arrangement (main)	SPST-NO
Rated Operating Voltage	12-750VDC/VAC
Rated carrying current	150A (1/0 cable- 53mm ² cross-section area)
Max carrying current (1time)	1 Second ,1200A, 60 Seconds, 300A, 600 Seconds,200A
	See Figure 2. Current carrying capacity
Switching Capacity	See Figure 1. Power switching capacity for resistive load
Max cut-off current	1000A@320VDC, 1 time
Contact Resistance	
Max @ rated carry current	0.4mΩ
Typical @ 150A	0.3mΩ
Mechanical Life	300, 000 Cycles
Operate time, 25°C	
Close (includes bounce) Max	20ms
Close (includes bounce) Typical	13 ms
Bounce on close, Max	7 ms
Release time (includes arc time at max. break	12 ms
current)	
Contact Arrangement (Auxilary)	SPST-NO (The auxiliary contact is mechanically linked to
	the main power contacts.)
Auxiliary contact rating	2A@24VDC
Minimum current and voltage for Auxiliary contact	100mA@8V
Insulation Resistance at 500VDC	100 MΩ (50 MΩ after life test)
Dielectric at sea level (leakage < 1mA)	2200 VRMS
Shock (Saw tooth or 1/2 Sine,11ms)	20G's
Vibration, Sinusoidal (10-2000 Hz peak)	20G's
Operating ambient Temp Range	-55-85℃
Storage ambient Temp Range	-55℃-125℃

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E-mail:e-sales@glvac.cn Zip Code: 215333 Weight, Typical 0.38kg/(0.84Lb) (without nuts/washers)

Power switching capacity for resistive load

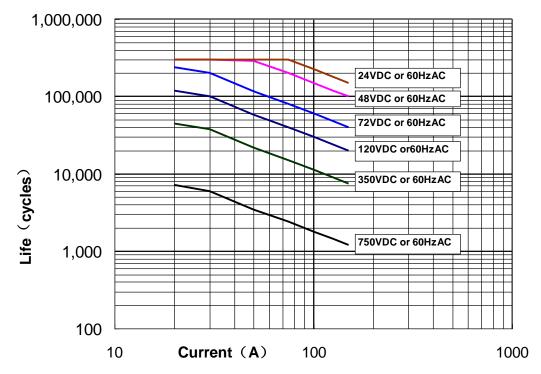


Figure 1 . Power switching capacity for resistive load

Note:

- 1. Electrical life rating is based on resistive load with 27µH maximum inductance in circuit. Because your application may be different, we suggest you test the contactor in your circuit to verify life is as required. End of life is defined as when the dielectric, insulation resistance or contact resistance exceeds the specifications listed.
- 2. Contactor is connected by 1/0 cables (53mm² cross-section area).

Current carrying capacity

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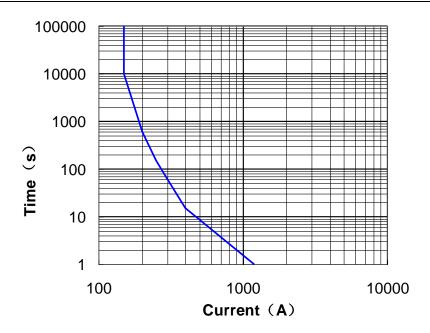


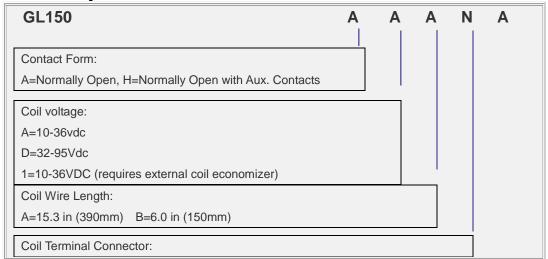
Figure 2. Current Carrying capacity

Coil ratings

Coil P/N Designation	A or 1	D
Coil Voltage (Will operate)	10-36Vdc	32-95Vdc
Coil Voltage (Max)	36Vdc	95Vdc
In-Rush Current Max (100 ms) - Amps	3.6A	0.9A
Hold Current after in-rush (Avg.) - Amps	0.13A@12Vdc,	0.04A@48Vdc
	0.07A@24Vdc	0.04A@46VaC
Pick-up Voltage @ 25C, Max	8.5V	32V
Dropout Voltage @ 25C, Min	4.5V	20V

Ratings are valid over temperature range.

Part number system



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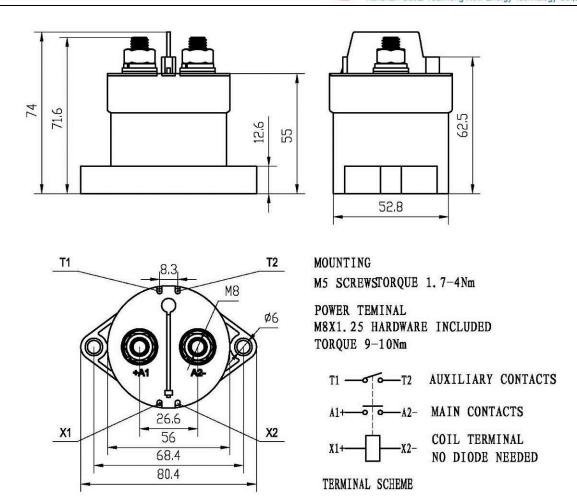
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N=None	
Mounting & Power Terminals:	
A=Bottom Mount & Male 10mm X M8 Terminals	

Outline dimension

GL 昆山国力源通新能源科技有限公司 Kunshan GuoLi YuanTong New Energy Technology Co.,Ltd.



Application Information:

1. WARNING - When using more than one lug on a power terminal, make sure the primary power is closest to the contactor busbar, with the lower current lug on top, then the washer, then the lock washer, then the nut. Improper order can cause severe over-heating resulting in the possible melting of the connecting cable insulation.

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