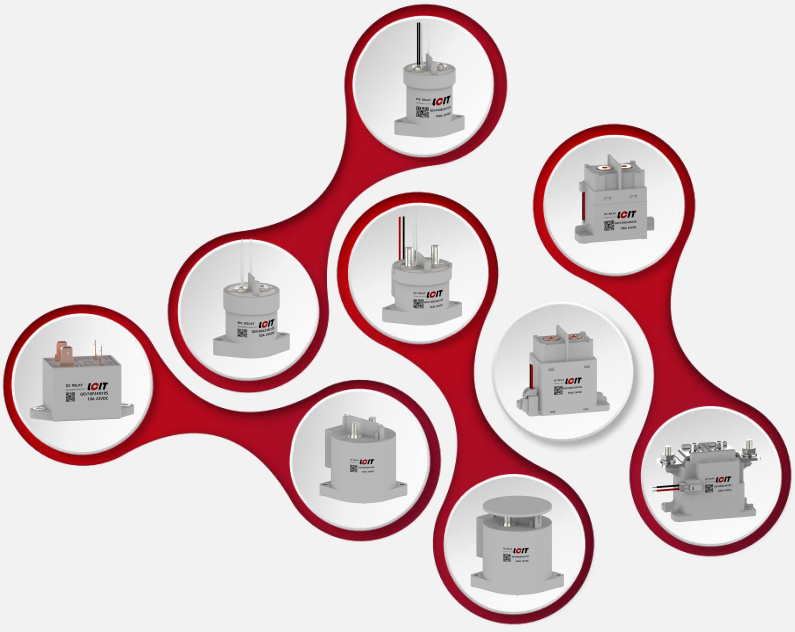
EV高压直流继电器
EV HIGH VOLATGE DC RELAY

新随我动掣电而行

专注新能源车辆及充放电设施、风光储能系统等领域



50A GEV50A

www.lcitind.com

GEV50A Series

高压直流继电器
HIGH VOLATGE DC RELAY

应用领域 Application field

高压直流 High voltage direct current	**工商业车辆，通讯 、低速车辆、家庭储能、5G通讯 、充换电站** Industrial and commercial vehicles, communications, low-speed vehicles, home energy storage, 5G communications, charging and changing power stations **电动汽车、环卫车辆、充电桩、光伏、工商业储能、重卡、岸电** Electric vehicles, sanitation vehicles, charging piles, photovoltaic, industrial and commercial energy storage, heavy trucks, shore power	

线圈参数 Coil parameter：20˚C 【±10%】

额定电压 Rated voltage	吸合电压 Pick-up voltage	释放电压 release voltage	最大吸合电压 Maximum pick-up voltage	额定电阻±5% rated resistance	线圈电流 Coil current	线圈功率 Coil power
12 VDC	⩽ 9 VDC	⩾ 1.2 VDC	16 VDC	45 Ω	266mA	3.5 W
24 VDC	⩽ 18 VDC	⩾ 2.4 VDC	32 VDC	170 Ω	140mA	3.5 W
36 VDC	⩽ 27 VDC	⩾ 3.6 VDC	45 VDC	400 Ω	90mA	3.5 W
48 VDC	⩽ 36 VDC	⩾ 4.8 VDC	60 VDC	685 Ω	70mA	3.5 W

性能参数 Performance parameter：20˚C

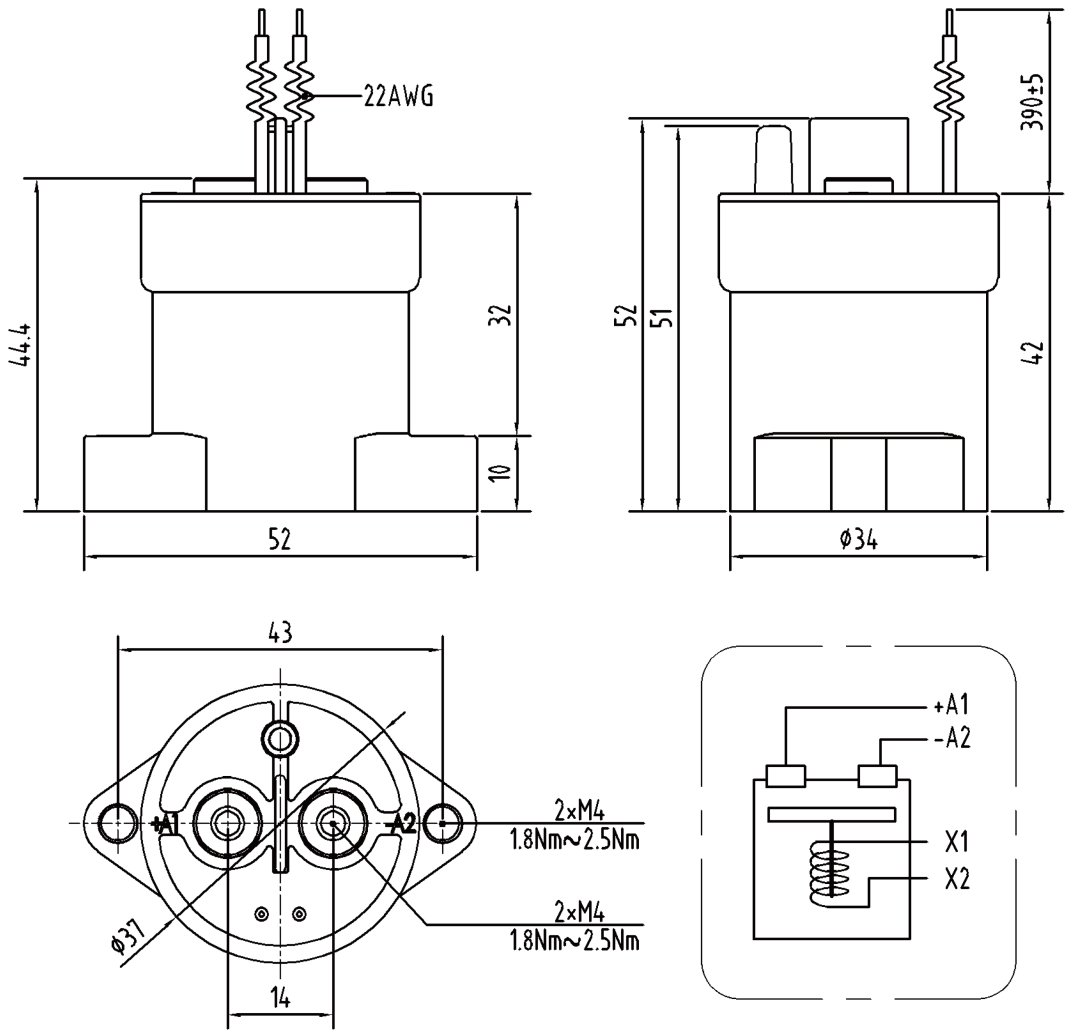
主触点形式 Main contact form	SPST-NO
负载电压 Load voltage	12~200Vdc / 12～1000Vdc
负载电流 Load current	1～50A
短时耐受电流及时间 Short-time withstand current and time	150A 180Sec / 250A 20Sec
最大分断电流 Maximum breaking current	500A (450VDC) 1次
接触电阻（初始） Contact resistance (Inception)	⩽ 1mΩ（at 50A）
吸合时间 Pickup time	Max. 25ms
弹跳时间 Bounce time	Max. 5ms
释放时间 Release time	Max. 10ms
机械耐久性 Mechanical Endurance	3×10^5 次
电耐久性 （阻性负载） Electrical durability (Resistive load)	200Vdc 1×10^4次 / 450Vdc 1×10^4 次 / 750Vdc 1.5×10^3 次
介质耐压触点与线圈间 Between dielectric withstand voltage contact and coil	2500VAC 1min
介质耐压断开触点间 Between dielectric withstand voltage breaking contacts	2500VAC 1min
初始绝缘电阻 Initial insulation resistance	1000mΩ (1000Vdc)
振动 Vibration	10Hz～500Hz 49m/s²
冲击稳定性 Impact stability	196m/s²
冲击强度 Impact strength	490m/s²
湿度 humidness	5%～85%RH
温度 temperature	-40℃～85℃
负载引出端形式 Load outlet form	M4 内螺纹 Internal thread
海拔高度 altitude	⩽ 4000m
重量 weight	约 about 130g

订货标记示例 Order mark example

GEV	50	A	24	N	10	S
LCIT企业 EV继电器代码 LCIT enterprise EV relay code	额定电流A Rated current A	壳体编码 Shape coding	线圈电压 Coil voltage 12:12Vdc,24:24Vdc 36:36Vdc,48:48Vdc	辅助触点 Auxiliary contact N = None	负载电压 Load voltage 10=12-1000Vdc	主触点极性 Main contact polarity S=有 have

外形尺寸、接线图、安装孔尺寸

Overall dimensions, wiring diagram, mounting hole dimensions



1. 产品部分外形尺寸未注尺寸公差，
   当外形尺寸≤10mm，公±0.3mm；
   当外形尺寸　在(10 ~ 50)mm之间时，公差为±0.5mm；
   当外形尺寸≥50mm，公差为±0.8mm。
2. 公差仅供参考，当与实物不一致时，请以实物尺寸为准。

1. No dimensional tolerances have been noted in the overall dimensions of some products.
   When the overall size is ≤10mm, the tolerance is ±0.3mm;
   When the overall size is between (10 ~ 50)mm, the tolerance is ±0.5mm;
   When the overall size is ≥50mm, the tolerance is ±0.8mm.
2. Tolerance is for reference only, when inconsistent with the real size, please refer to the real size.

EV高压直流继电器
EV HIGH VOLATGE DC RELAY

Shanghai Lcit Industrial Co.,ltd.
www.lcitind.com www.lcitind.cn
+86-21-57646228
880 Ziyue Road, Minhang District, Shanghai

REV 2022-01