



中国·蓝波
LANBOO

蓝波大电流开关
Pioneer of High-Current Switches

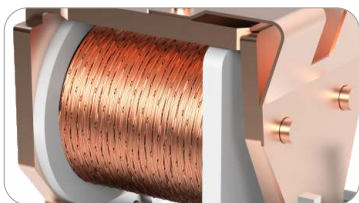
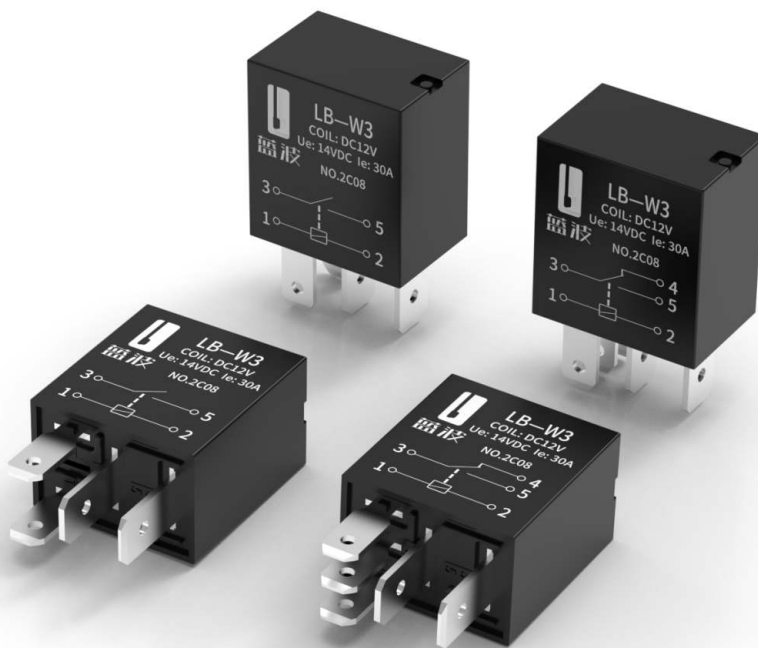
CCC CE RoHS Intertek ISO9001 多项专利

LBW3 规格书

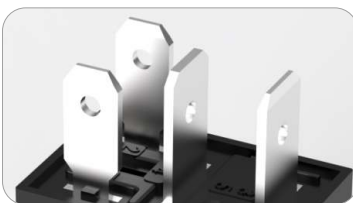
紫罗兰继电器

LBW3

紫罗兰继电器



全铜足匝线圈



镀锡



阻燃外壳



铜覆银氧化锡AgSn02/Cu

型号说明/选型，写法举例：LBW3/4脚/12V/30A/黑色

对应编号		LB	—	W3	/	●●	/	●●	/	●●	/	●●
		1		2		3		4		5		6
1	LB	LANBOO 蓝波代码										
2	继电器代码	W3										
3	脚位数量	4脚、5脚										
4	线圈电压	12V、24V										
5	触点负载电流	30A										
6	外壳颜色	黑色;定制(黄色、棕色、蓝色)										

性能参数

安装方式	配套插座、焊接
外壳	PA6(RoHS), V0级阻燃
底座	PA6(RoHS), V0级阻燃
触点	铜覆银氧化锡AgSn02/Cu (RoHS)
引脚	镀锡 (RoHS)
接线形式	快连接式
引脚反向推力	≥80N无位移
工作环境温度	-40℃~+80℃, 非真空状态、不结冰情况下
工作环境湿度	35~85%RH
贮存环境温度	包装完好情况下, -40℃~+55℃
贮存环境湿度	包装完好情况下, 40~90%RH



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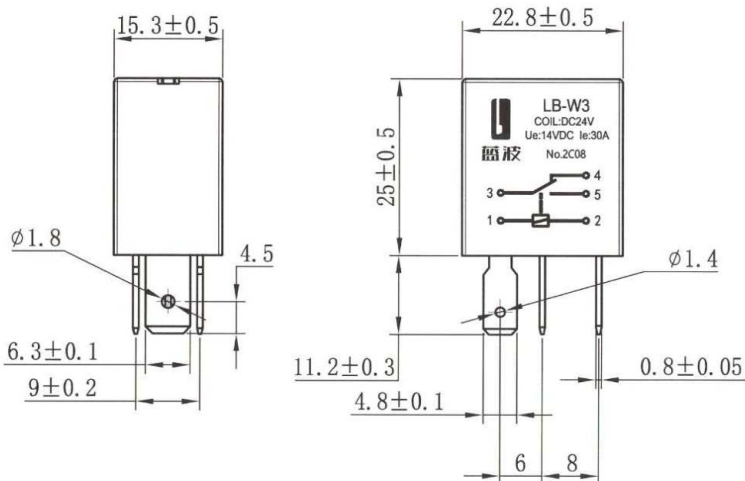
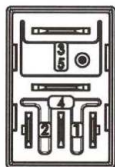
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接触电阻		≤50mΩ
触点类型		1NO/1NO1NC
触点负载		30A/13.5VDC
		20A/27VDC
线圈参数	吸合电压(23°C)	DC:≤75%(额定电压)
	释放电压(23°C)	DC:≥10%(额定电压)
	最大电压	23°C时额定电压的150%：85°C时额定电压的130%
	吸合时间	≤25ms
	释放时间	≤25ms
	线圈耗电量	约1.8W
	线圈电压	DC12V/DC24V
	线圈电阻	DC12V:90±10%Ω/DC24V:360±10%Ω
	最大连续电流	NO常开触点：30A(23°C)，25A(85°C)，13A(125°C)
		NC常闭触点：20A(23°C)，15A(85°C)，10A(125°C)
接触降压	(NO)端：典型值 15mV，最大值：250mV(10A 下测量)	
	(NC)端：典型值 25mV，最大值：250mV(10A 下测量)	
绝缘电阻		≥100MΩ(500VDC)
抗电强度(介质耐压)		触点与线圈间：500VAC 1min 断开触点间：500VAC 1min
触点最小适用负载		6VDC,1A(参考值,取决于环境与负载情况)
耐振性		10Hz~500Hz,49m/s ² (5G)
包装跌落		600mm高度连续跌落4次，产品无损坏
盐雾试验		72h，1个周期，（参考GB/T 2423.18-2012）
低温试验		-40°C，96h，接触电阻≤200mΩ
高温试验		80°C，96h，接触电阻≤200mΩ
高低温冲击试验		-40~+85°C,85%RH,40min/循环，50个循环，接触电阻≤200mΩ
寿命试验	电气	≥10万次
	机械	≥1000万次（切换频率：300cpm）
质保		66个月



4脚原理图



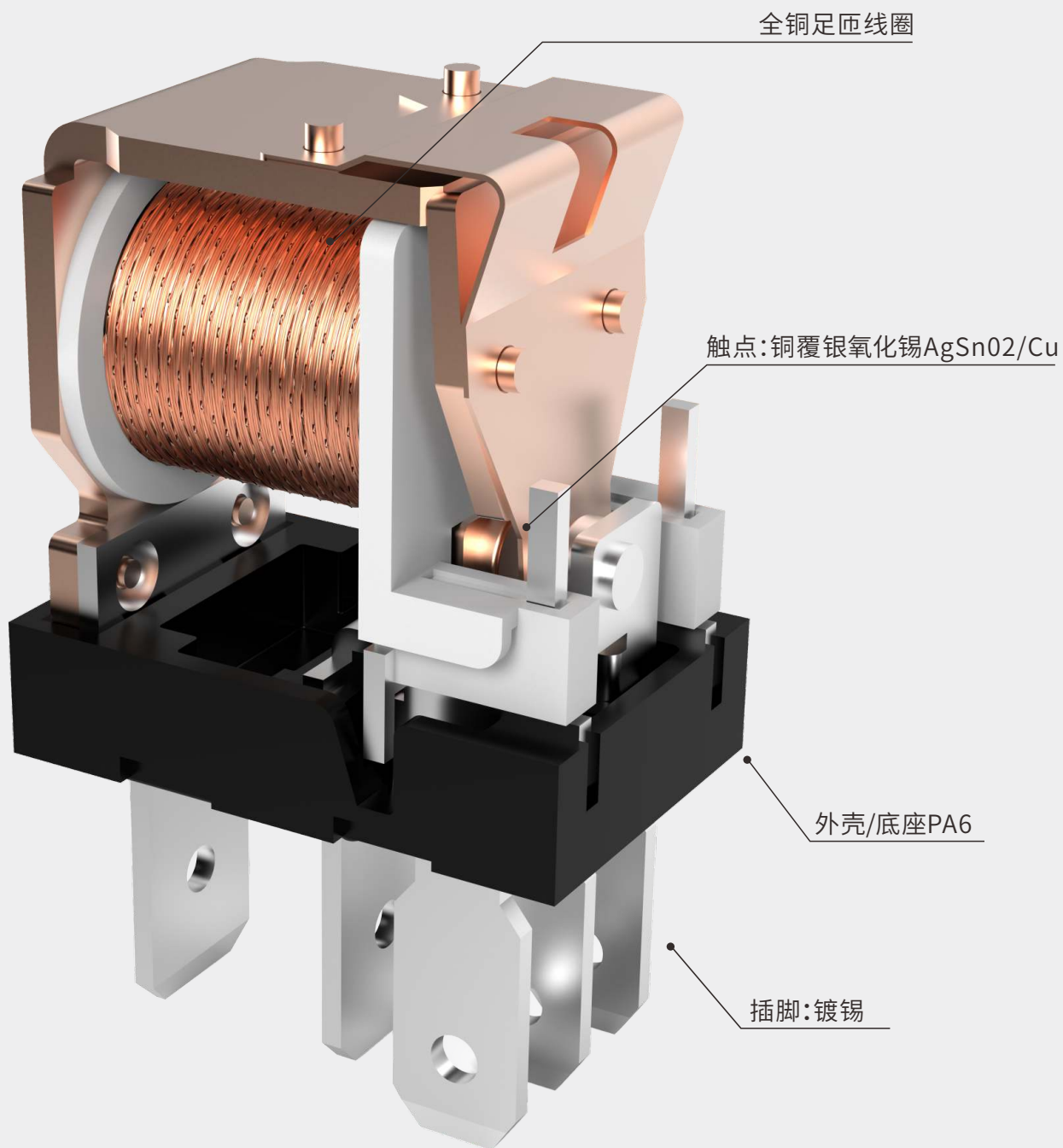
5脚原理图



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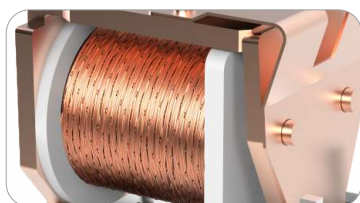
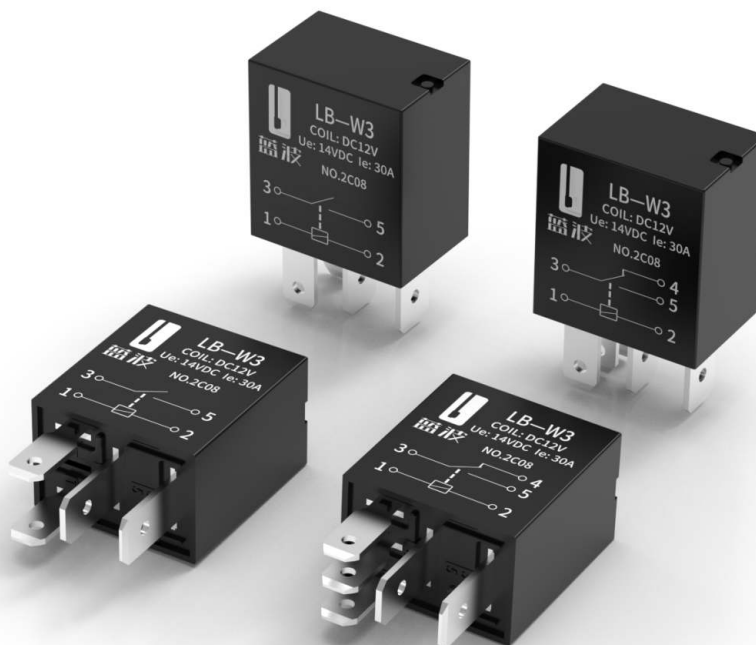
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LBW3 specification

Violet relay

LBW3

Violet relay



All copper foot turn coil



Tin Plating



Flame retardant shell



AgSn02/Cu

Model Description/Selection, Example:LBW3/4 Pin/12V/30A/Black

对应编号		LB	—	W3	/	●●	/	●●	/	●●	/	●●
		1		2		3		4		5		6
1	LB	LANBOO										
2	Series No.	W3										
3	Pin	4 Pin、5 Pin										
4	Coil Voltage	12V、24V										
5	Contact load current	30A										
6	Shell color	Black; Customized (yellow, brown, blue)										

The performance parameters

Installation method	Supporting sockets and welding
Shell	PA6(RoHS), V0 level flame retardant
Base	PA6(RoHS), V0 level flame retardant
Contact	AgSn02/Cu (RoHS)
Pin	Tin Plating (RoHS)
Wiring form	Quick connect type
Pin reverse thrust	≥ 80N without displacement
Ambient Temperature	-40℃~+80℃, In non vacuum and non icing conditions
Working environment humidity	35~85%RH
Storage environment temperature	Under intact packaging, -40℃~+55℃
Storage environment humidity	Under intact packaging, 40~90%RH



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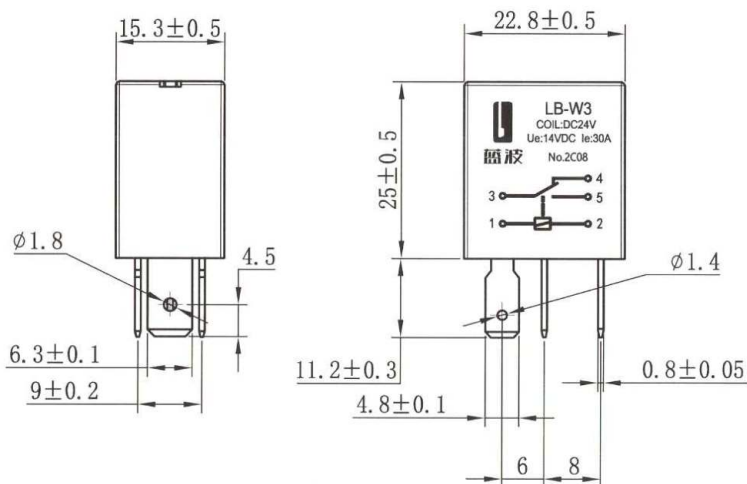
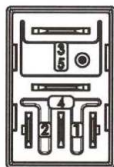
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LBW3 specification

Violet relay

Coil parameters	Contact resistance	≤50mΩ
	Contact type	1NO/1NO1NC
	Contact load	30A/13.5VDC
		20A/27VDC
	Pull-in voltage(23℃)	DC:≤75%(rated voltage)
	Release voltage(23℃)	DC:≥10%(rated voltage)
	Maximum voltage	150% of rated voltage at 23 ℃: 130% of rated voltage at 85 ℃
	Pickup time	≤25ms
	Release	≤25ms
	Power consumption of coils	约1.8W
	Coil Voltage	DC12V/DC24V
	Coil resistance	DC12V:90±10%Ω/DC24V:360±10%Ω
	Maximum continuous current	NO normally open contact: 30A(23℃), 25A(85℃), 13A(125℃) NC normally closed contact: 20A(23℃), 15A(85℃), 10A(125℃)
Contact voltage reduction	(NO) end: typical value 15mV, maximum value 250mV (measured at 10A)	
	(NC) end: typical value of 25mV, maximum value of 250mV (measured at 10A)	
Insulation resistance		≥100MΩ(500VDC)
Dielectric strength (dielectric withstand voltage)		Between contact and coil: 500VAC for 1 minute Between open contacts: 500VAC for 1 minute
Minimum applicable load of contacts		6VDC,1A (Reference value, depending on environment and load conditions)
Resistance to vibration		10Hz~500Hz,49m/s ² (5G)
Packaging drop		4 consecutive drops from a height of 600mm, with no damage to the product
Salt spray test		72 hours, 1 cycle, (refer to GB/T 2423.18-2012)
Low Temperature		-40 ℃, 96h, contact resistance ≤ 200m Ω
High Temperature Test		80 ℃, 96h, contact resistance ≤ 200m Ω
High and low temperature impact test		-40~+85 ℃, 85% RH, 40min/cycle, 50 cycles, contact resistance ≤ 200m Ω
Life test	Electrical	≥ 100000 times
	Machinery	≥ 10 million times (switching frequency: 300cpm)
Quality Assurance		66 Months



4-pin schematic



5-pin schematic