



BCRP98 -Z50H/ 10

DC Contactor

Shen Yang 213 Control Electrics Co.,Ltd

The best value comes from the integrity of
successful I& working perfectly.



BCRP98-Z50H/10

DC Contactor

Compact DC contactor, despite its small size, has excellent DC switching capacity which up to 1200V.

This product is often used in rail transit DC systems and can be adapted to harsh environments . Meanwhile it has provided reliable assistance for rail transportation.

Product Characteristic

- The product has a compact structure and has strong impact capacity.
- The material of the main contact is firm, wear-resistant, and has good electrical conductivity, and has a high mechanical and electrical life.
- Permanent magnet arc extinguishing technology can quickly and completely extinguish the arc.
- The multi-fracture design of the main contact can greatly ensure the stability of the product.
- Various product control voltages, (-30%...+30%) Us. either DC control or AC control

Application

This product has a wide range of applications and can be used in 1000V DC power distribution systems for high-speed railways, subways and intercity railways, on-board chargers, air conditioner inverters, emergency power supplies, power supply control for engineering vehicles, petrochemical fields, marine electric propulsion systems, and power batteries, energy storage converter.

Executive Standard

In line with international standards:

- IEC 60947-4-1: Low-voltage switchgear and controlgear Part 4-1: Contactors and motor-starters- Electromechanical contactors and motor-starters, MOD
- IEC 60947-1: MOD Low-voltage switchgear and controlgear-Part 1: General rules
- IEC 60077-1: MOD Railway application Electrical equipment for rolling stock Part 1: General service conditions and general rules.
- IEC 60077-2 Railway application Electric equipment for rolling stock - Part 2: Electrotechnical components- General rules



BCRP98-Z 50 H/10 DC 24V

- ① B: Enterprise Code- Shen Yang 2.1.3 Control Electrics Co., Ltd
- ② CRP: Contactor
- ③ 98: Design Number
- ④ Z: Current for main contact-DC
- ⑤ 50: Rated operating current 50A
- ⑥ H : High voltage
- ⑦ 10: 2×SPST-NO series connection
- ⑧ DC24V : Coil control voltage (DC24V: 24VDC; DC72V : 72VDC; DC80V : 75VDC; DC110V: 110VDC; DC220V : 220VDC)



Parameter

Voltage Type	DC	Auxiliary Contact Number	1NO+1NC ⁽²⁾
Main Contact	1×SPST- NO ⁽¹⁾	Auxiliary Contact : Connecting Terminal	Fast connection 6.3 x 0.8 mm
Nominal Voltage U _n	1000V	Rated Control Power Voltage U _c	24/110/220/72/75 VDC
Rated Insulation Voltage U _i	1600V	Rated Control Power Voltage Range	24/110/220/72: 70% ~ 130% 75: 52 ~ 94VDC
Rated Shock Withstand Voltage U _{imp}	10kV	Coil Consumption	15W
Pollution Grade	PD3	Control Loop : Connecting Terminal	0.8 ~ 2.5mm ² solid conductor ⁽³⁾
Over-voltage Category	OV3	Protection Level	IP00
Conventional Thermal Current I _{th}	50A	Mechanical Life	5,000,000 times
Connecting	1000A (T=0ms)	Electrical Life	600,000 times ⁽⁴⁾
Breaking	L/R ≤ 1ms : 120A L/R < 15ms : 30A	Vibration	7.5g/5ms
Main contact: Material	AgSnO ₂	Loading Factor	100%
Main contact : Connecting Terminal	M5	Installation	Vertical/ Horizontal/ Keep upright
Auxiliary : Use Category	AC-15 : 1.5A at 250VAC; DC-13: 0.4A at 250V DC or 1.5A at 48V DC	Optimum Temp	-40°C ~ 70°C
		Storage Temp	-40°C ~ 70°C
		Weight	0.8kg

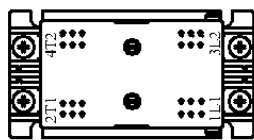
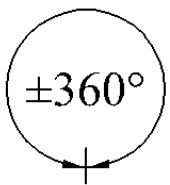
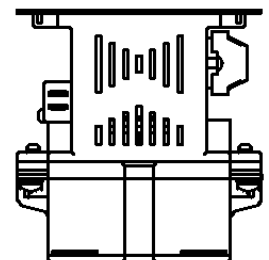
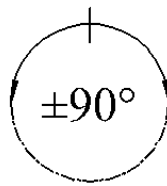
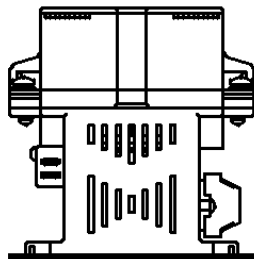
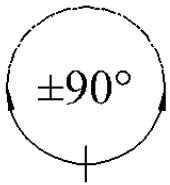
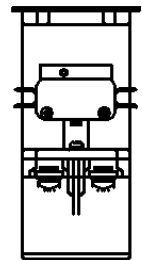
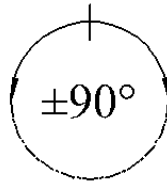
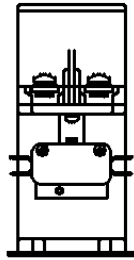
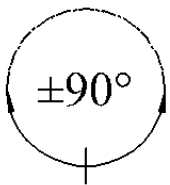
(1): 2×SPST- NO series connection.

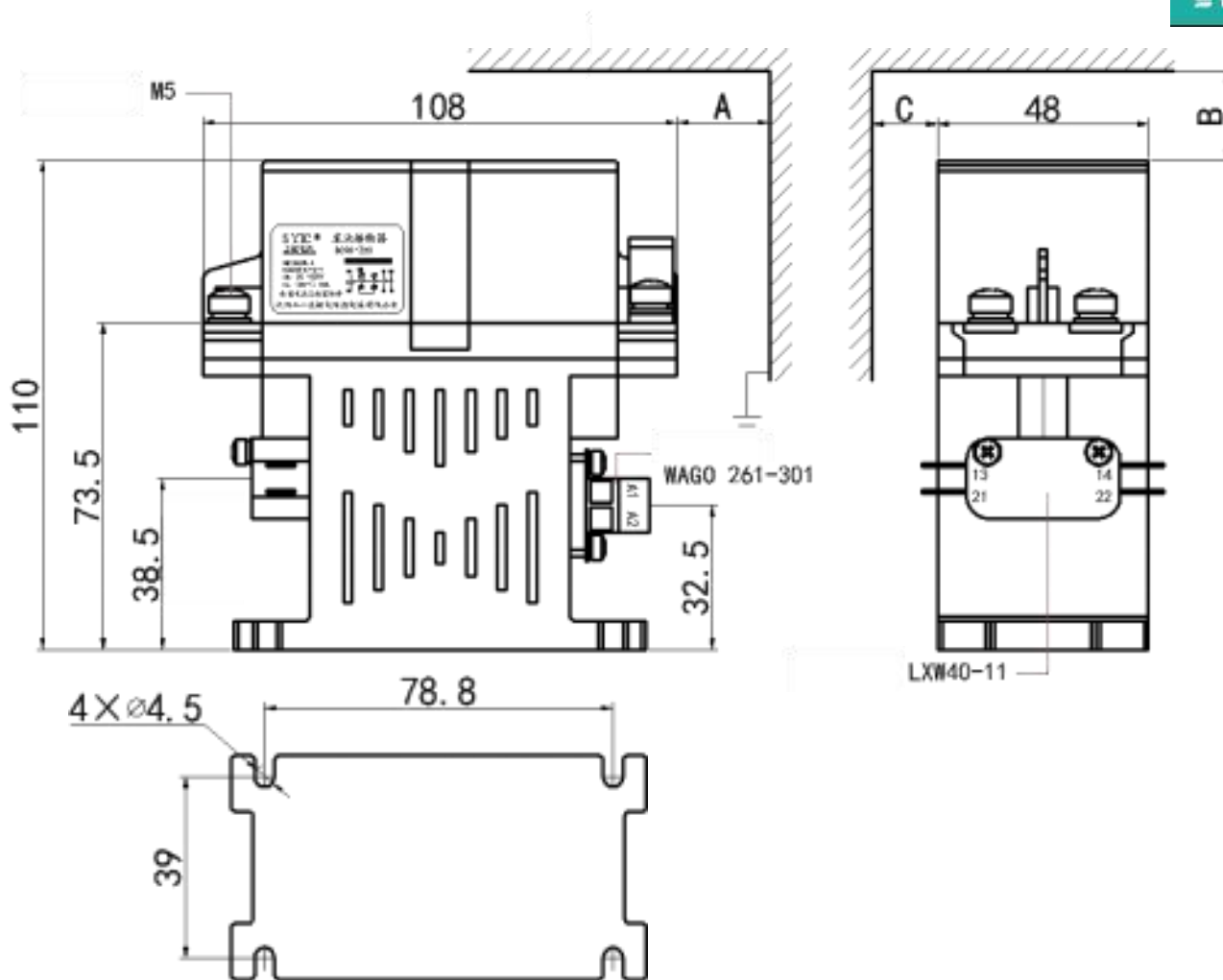
(2): Double pole Double Throw.

(3): Coil connecting terminal use WAGO 2 6 1-3 0 1

(4): Auxiliary contact is Shanghai FEILI LXW40- 11 , Electric life ≥ 100,000 times , timely replacement according to the actual usage

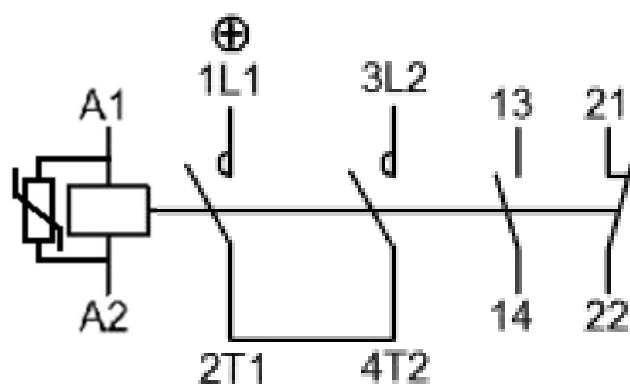
Installation





	A	B	C
$P < \text{Rated Power}$	10mm	10mm	10mm
$P \geq \text{Rated Power}$	10mm	30mm	20mm

Circuit Diagram





Electrical Components for Rail Transit System and other Industrial System

接触器

- Single- pole and multi- pole DC contactors
- High voltage AC/ DC contactor
- Battery powered vehicles and power sources
- Railway application contactor
- DC emergency disconnect switch
- Special contactors meet various customer requirements

断路器

- AC/ DC applications.
- Modular and easy-to-install internal fittings with different functions.
- Miniature/ miniature circuit breakers, molded case circuit breakers.
- Have a variety of protection functions, including long-delay, instantaneous, short-delay and ground fault (including zero- sequence current and residual current)

熔断器

- Open, semi-closed, tubular and jet fuses
- Simple structure, convenient use and low price
- High voltage fuse and low voltage fuse
- Good current limiting characteristics and excellent breaking capacity

连接器

- Apply to industry standards
- The connector is suitable for the special requirements of communication engineering (MIL connector) for battery-powered machines
 - Charging connectors and systems for railway engineering
 - Connectors, including UIC connectors