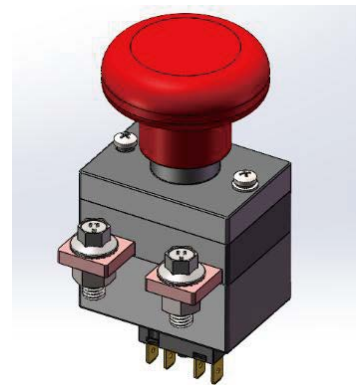


Suitable for full-range DC electrical control scenarios: new energy passenger vehicles, commercial vehicles, heavy-duty trucks, mining trucks, hydrogen fuel-cell vehicles, electric transfer vehicles, stackers, automobile tail-gates, UPS uninterruptible power supplies. It also covers rail transit, lithium-ion battery forklifts, AGV/AMR unmanned logistics vehicles, aerial work platforms, sightseeing golf carts, heavy-duty lithium-ion machinery for ports and mines, lithium-ion powered vessels, aerospace ground power supplies, wind-power pitch control systems, test and inspection equipment, industrial robots, DC welding and cutting equipment, hydrogen refueling power distribution, data-center DC power supply, sanitation cold-chain electric vehicles, explosion-proof special electric control systems, medical DC equipment and other low-voltage DC control working conditions.



Features

- Continuous 300A load.
- It has one set of normally close contacts.
- The insulation resistance reaches 100M Ω (500VDC), and the withstand voltage between the contacts and the coil is 1.5kV.
- IP protection level: IP50.
- Compliant with IEC 60664-1, GB/T14048.1 and GB/T14048.14 requirements.
- Compliant with RoHS (2015/863/EC) and REACH (1907/2006/EC) requirements.
- Safety certificate: CE.

Main Contact Specification

Contact Arrangement	SPST-NC
Contact Polarity	Non-polarity
Contact Resistance	$\leq 50 \text{ m}\Omega$ (at 20A, Initial value)
Rated duty	Continuous duty
Load Current	300A
Load Voltage	72VDC
Max. Switching Voltage	72VDC
Max. Breaking Current	4Ie
Limit short-circuit current	7Ie
Mechanical Endurance	$\geq 50,000$ (Ops)
Pulse Width	$\leq 65\text{K}$ (185mm ² , 300A Continuous)

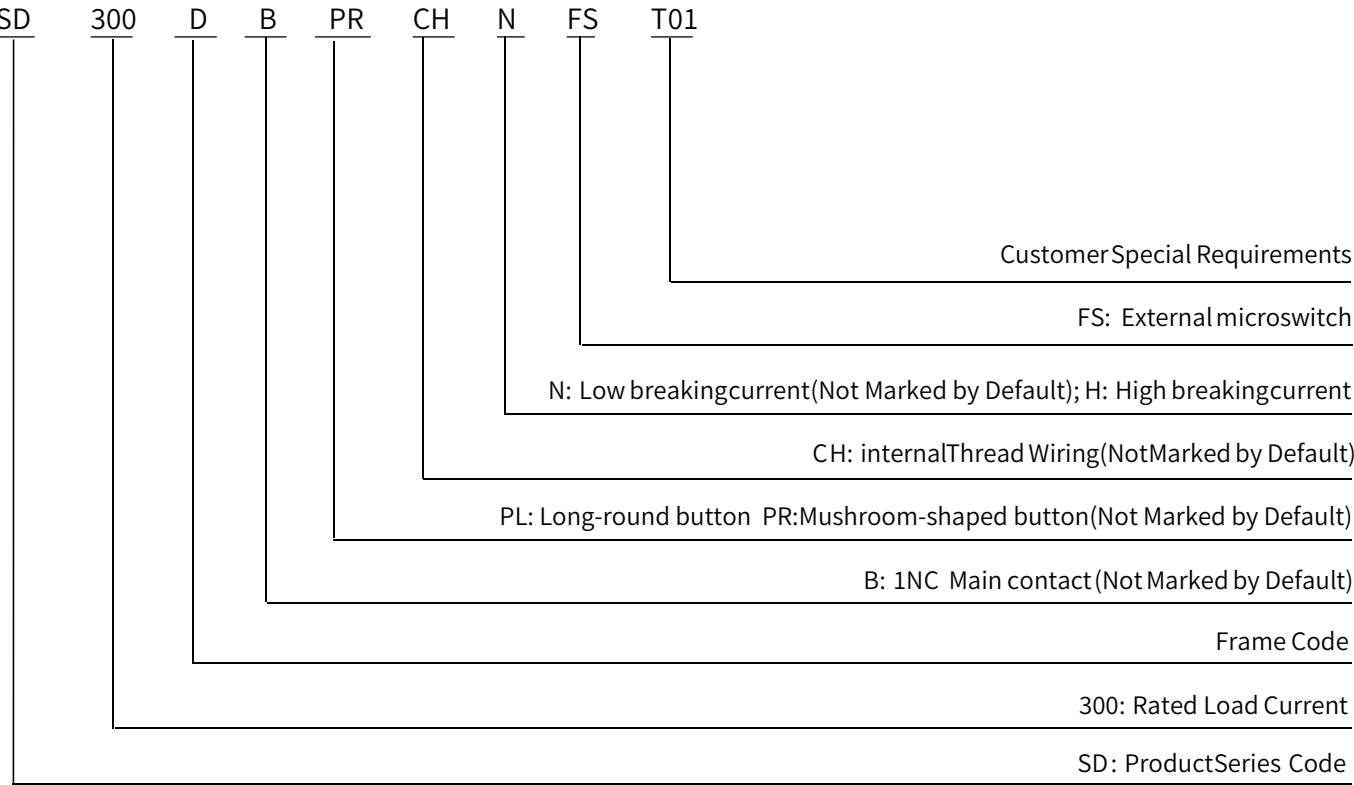
Auxiliary Contact Parameter

Aux. Contact Arrangement	FK+FB (1NO AND 1NC)
Aux. Contact Rated Load	10A/36V DC

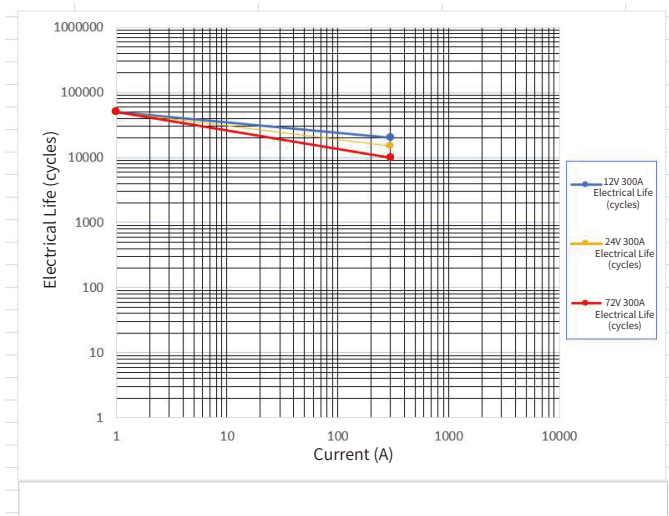
Performance Parameter (@23°C)

Closed-loop tensile force (F1)		20N≤F1≤50N
Disengage Thrust (F2)		20N≤F2≤50N
Normal closure time		≤100ms
Normal disconnection time		≤50ms
Dielectric Strength	Between Main Contacts	1500VAC 1min
Insulation Resistance	Initial State	100MΩ 1min
	After Electrical Life	50MΩ 1min
Shock	Stability	10g (Power On) 3g (Power On)
	Strength	20g
Vibration		2.5g,10~50Hz,1/2 Sine Wave (Power On)
Environmental Temperature		-25°C~85°C
Relative Humidity		5%~95%RH
Altitude		≤2000m
Load Terminal		M8 external thread
Dimension		60mm×61.5mm×131mm
Weight		About 450g
Packing Quantity		/
Outer box dimensions		/

Model Coding

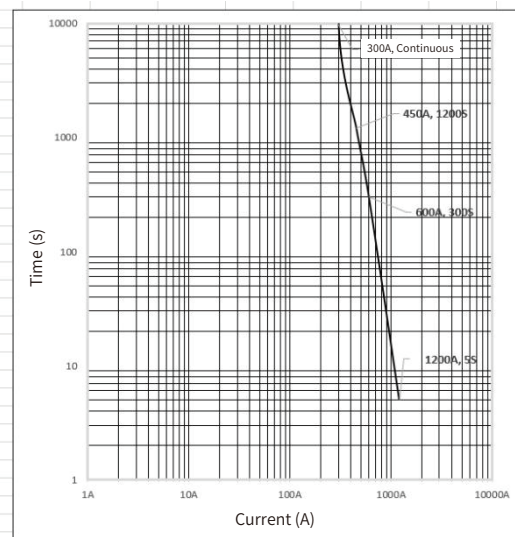


Electric Life Curve



Note: The above electrical endurance test is carried out at an ambient temperature of 25°C, conductor cross-section $\geq 185\text{mm}^2$. Load is resistive load.

Current Tolerance Curve



Note: The above current withstand test is carried out at an ambient temperature of 85°C, conductor cross-section $\geq 185\text{mm}^2$.

Electric Life

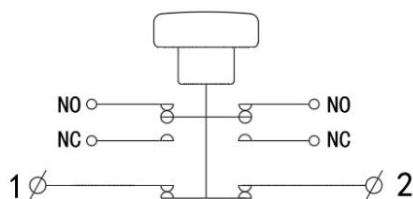
Condition		Cycles
Electric Life (Resistive Load)	72VDC 300A	10000
	24VDC 300A	15000
	12VDC 300A	20000

Current Tolerance

Current	Time
300A	Continuation
450A	20 min
600A	5 min
1200A	5 s

Sectional Area: 185mm²

Wiring Diagram



wiring diagram

Note:

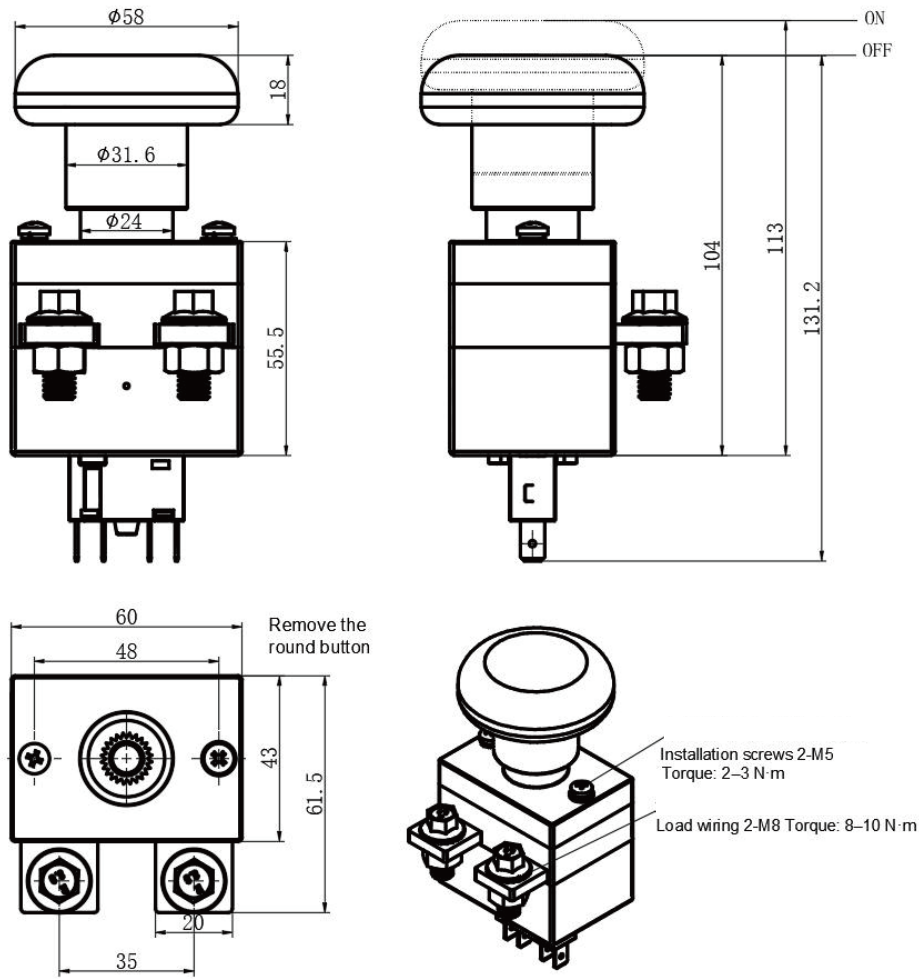
1&2 main terminals with non-polarity

NO micro-switch normally open terminal

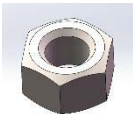
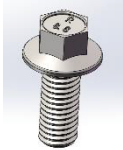
NC micro-switch normally closed terminal

Outline Installation Dimension Drawing

With Sensitive Switch



Male thread



Supplied as Accessory:
2 x M8 External hex
flange bolts and nuts
Supplied for power
terminals

Torque:
8-10 N.m

Undeclared Tolerance:

Values	≤ 10	10-50	≥ 50
Tolerance	± 0.3	± 0.6	± 1

Mounting:

Screw Size	M5
Torque	2-3N.m