# DC Contactor

# ZJW400A DC Contactor



## USES

This product have one normally open contact, for electric vehicles, telecommunication equipment, engineering machinery, car batteries, electric forklift trucks, trains, ships, electronic control systems such as uninterruptible power supply.

ZJW	<u>400A</u>	<u>-S</u>	<u>-C</u>	<u>-K</u>	<u>-M</u>	<u>- 🗆</u>	<u>/24V</u>
1	2	3	4	5	6	7	8

- 1 Product type
- 2 Rated current
- 3 Auxiliary switch: None Without auxiliary switch; S With auxiliary switch
- 4 Magnetic blowouts
- 5 Megnetic holding structure: K Two joint magnetic retention(Single coil, Two joint self-locking); 2K Three joint magnetic retention(Double coil, Three joint self-locking)
- 6 Mounting bracket type: M Horizontal (default), 1L One vertical, 2L Two vertical
- 7 Other function codes: I: With suppressor diode, R: With pre-charged resistance ,CO: Continuous , IN:
- 8 Coil rated voltage: 6V,12V,24V,36V,48V,60V,72V,84V,120V,150V,220V etc.

USE OF THE ENVI	RONMENT	ORDER INSTRUCTION				
Contact lead M10 tightening	ightarrow20.5 appropriate	U.N.W.	1350g			
Coil lead-out torque (N.m)	ightarrow0.8 appropriate	Package QTY.	20PCS			
Ambient temperature	<b>-25~+70</b> ℃		,			
Relative humidity	+20℃ 98%					
Vibration freq. atthe fixed	3G, 1 $\sim$ 50Hz amplitude 0.5mm					
Concussion	(60 $\sim$ 100) time/minute					
Altitude	2000m					
Installation direction	Random	Mounting bracket type	M Horizontal (default), 1L One vertical, 2L Two vertical			
International protection	IP40 (According IEC60947)					

## ORDER FORM DESCRIPTION

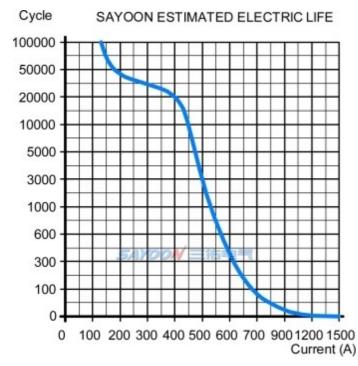
When ordering, please state the following: name, full model, control coil voltage specification, installation frame type, whether with auxiliary contact, order quantity. For example: DC Contactor CZW400A/24V 100pcs, indicating the load rated current 400A, without auxiliary contact, default mounting bracket, coil control voltage 24V purchase 100pcs. Special voltage specification products, such as user needs can be special order.

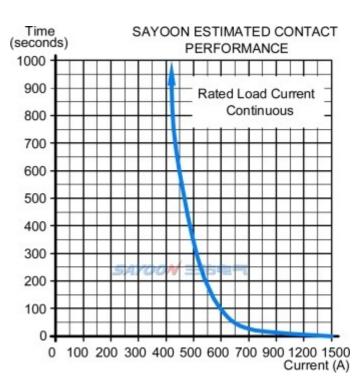
# TECHNICAL PARAMETERS

(Version	1 72)
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SAYOON Product Type	ZJW400A		
Contact form	1 NO		
Coil Rated voltage (DC V)	6V,12V,24V,36V,48V,60V,72V,84V,120V,150V,220V etc.		
Contact voltage (DC V)	≤80V		
Rated load current of contact 48V circuit (DC-1)	400A		
Typical voltage drop across contacts per 100A	≤80mV		
The cooling pull-in voltage at (20±5) $^\circ\!\mathbb{C}$ (V)	≤70%		
The cooling drop-out voltage at (20±5) $^\circ\!\!\!{\rm C}$ (V)	≤35%, ≥5%		
Working voltage range of $40^{\circ}$ C coil	0.8-1.2Us		
Drop-out time (n/o contacts to open)	50ms		
Pull-in time (n/o contacts to close)	10ms		
Maximum bounce time for contact connection	10ms		
Maximum bounce time for contact disconnection	3ms		
Insulation resistance	20ΜΩ		
Electric strength to resist	50Hz/60Hz 1000VAC 1minute		
Typical fault currents which can be ruptured	1500A/5ms at 48V DC		
Coil power (W)	13-30		
Temperature rise of coil (K)	≤60		
Temperature rise on outgoing terminal (K)	≤65		
Electrical life	20,000 times		
Mechanical life	300,000 times		
Work specification	Continuous (default) or Intermittent		
Contact material	Ag alloy		
Load terminal type	M10 Screw		
Coil terminal type	6.3mm spade terminals		
Auxiliary contact rated load (optional)	2A/48VDC, 5A/24VDC		
Auxiliary contact form(choose)	1 NO 1 NC		

## LOAD CHARACTERISTIC CURVE





ZHEJIANG SAYOON ELECTRIC CO.,LTD. Tel:++86-577-62620700 62620707 62626292 http://www.sayoon.com E-Mail: sayoon@sayoon.com

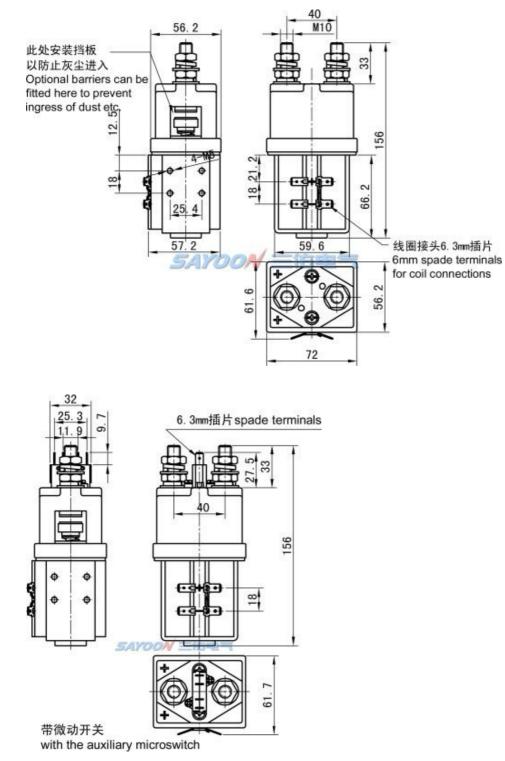
# OTHER TECHNICAL PARAMETERS

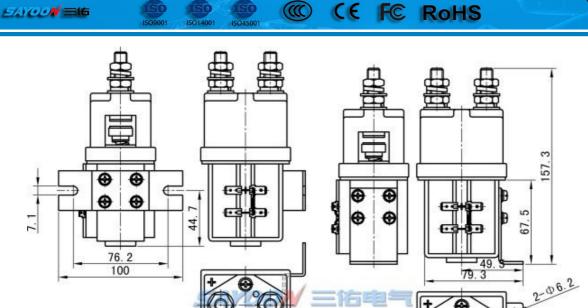
#### Testing organization certification

CCC,CE,FCC

Note:As regarding to the different using environments of customers which requires different focus of the functions, and in order to improve the comprehensive properties of our products, sayoon may adjust the coil parameters, temperature rise and so on. The above parameters are for reference only, For details, please refer to the guidelines for selection and use of the SAYOON DC contactor.

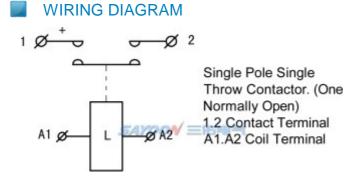
#### **INSTALLATION DIAGRAM**





48

84



安装架形式M

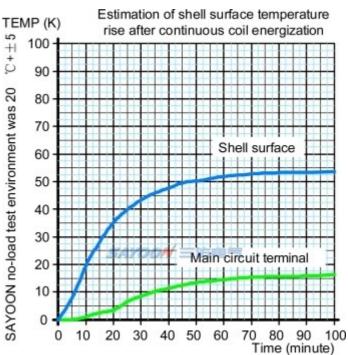
Mount in the form M

#### TEMPERATURE RISE CURVE

安装架形式1L

Mount in the form 1L

7



## **FEATURES**

Suitable for electric forklift, battery cars, tractors, excavators, brick machine, cleaning vehicles, automotive air-conditioning, communication power supply, uninterruptible power supply, power supply switches such as electroplating electronic control system control circuit, has the advantages of small volume, large load capacity, long service life, easy maintenance and other characteristics, welcomed by users. The products in accordance with the standard of the JB2286-78, JB3974-85, YD / 585-92, YD / T512-92 requirements; the plant and related test unit test, meet the standard requirements, the user use for many years, the maximum to meet user needs, quality and reliable.

(m)

CE FC RoHS

#### 3D NUMERICAL AND MODELING INTERACTIVE DISPLAY

ZJW400A-M: <u>http://www.sayoon.com/en/v3d/p.html?type=czw400a-m</u> ZJW400A-L: <u>http://www.sayoon.com/en/v3d/p.html?type=czw400a-l</u> ZJW400A-S-M: <u>http://www.sayoon.com/en/v3d/p.html?type=czw400a-s-m</u>