

## I、Main Factors

The products are mainly used in battery cars, electric forklifts, electric cars, electric winches, trains, ships, communication equipment, UPS, etc; The contacts are not affected by the surrounding environment, and the protection level reaches IP67; The product conforms to GB / t14048.4, IEC60947 and EU ROHS directive.

## II、Technical Parameters

### ◆Electrical Characteristics

<b>Main contact material</b>	Silver alloy	<b>Rating operation system</b>	Uninterrupted Working System
<b>Contact Arrangement</b>	SPST-NO-DM	<b>Current carry</b>	Graph-1
<b>Polarity for main contacts</b>	Optional	<b>Mechanical durability▲3</b>	2×10 <sup>5</sup> cycles
<b>Contact resistance</b>	≤30mΩ ( 6VDC 20A ) Typical value 1mΩ	<b>Electrical durability ▲1▲3</b>	80VDC,10000 cycles 200VDC,1000 cycles
<b>Load voltage</b>	12-200VDC	<b>Pick up voltage</b>	Us75%Max.
<b>Load current</b>	125A	<b>Drop out voltage</b>	Us10%Min.
<b>Insulation (initial)</b>	Min. 100MΩ at500VDC	<b>Operate time</b>	30ms Max.
<b>Dielectric withstand voltage</b>	AC 1000 Vrms/1mA/1min.	<b>Release time ( include bounce )</b>	12ms Max.
<b>Impulse withstand voltage</b>	1500 V	<b>Bounce time</b>	7ms Max.
<b>Pollution degree</b>	PD3	<b>Auxiliary contacts</b>	Optional

### ◆Mechanical / Environmental Parameters

<b>Protect level</b>	IP67	<b>Height above sea level</b>	≤4000m
<b>Contact M8 torque(N.m)</b>	9.0-12.0	<b>Shock ▲2</b>	Peak 20G,11ms,1/2sine
<b>Temperature range</b>	-40℃ ~ +60℃	<b>Vibration ▲2</b>	Peak 5G,10 ~ 500Hz, 1/2sine
<b>Humidity range</b>	5% ~ 90% RH	<b>Weight (approx)</b>	300 g

### ◆Coil Parameters ( tolerance±10% )

<b>Nominal Voltage ( VDC )</b>	<b>Coil Resistance ( Ω )</b>	<b>Coil Power ( W ) approx</b>	<b>Nominal Voltage ( VDC )</b>	<b>Coil Resistance ( Ω )</b>	<b>Coil Power ( W ) approx</b>
12	26	6	48	392	6
24	96.4	6	72	868	6

※The above values are the initial values under the ambient temperature of 20 °C

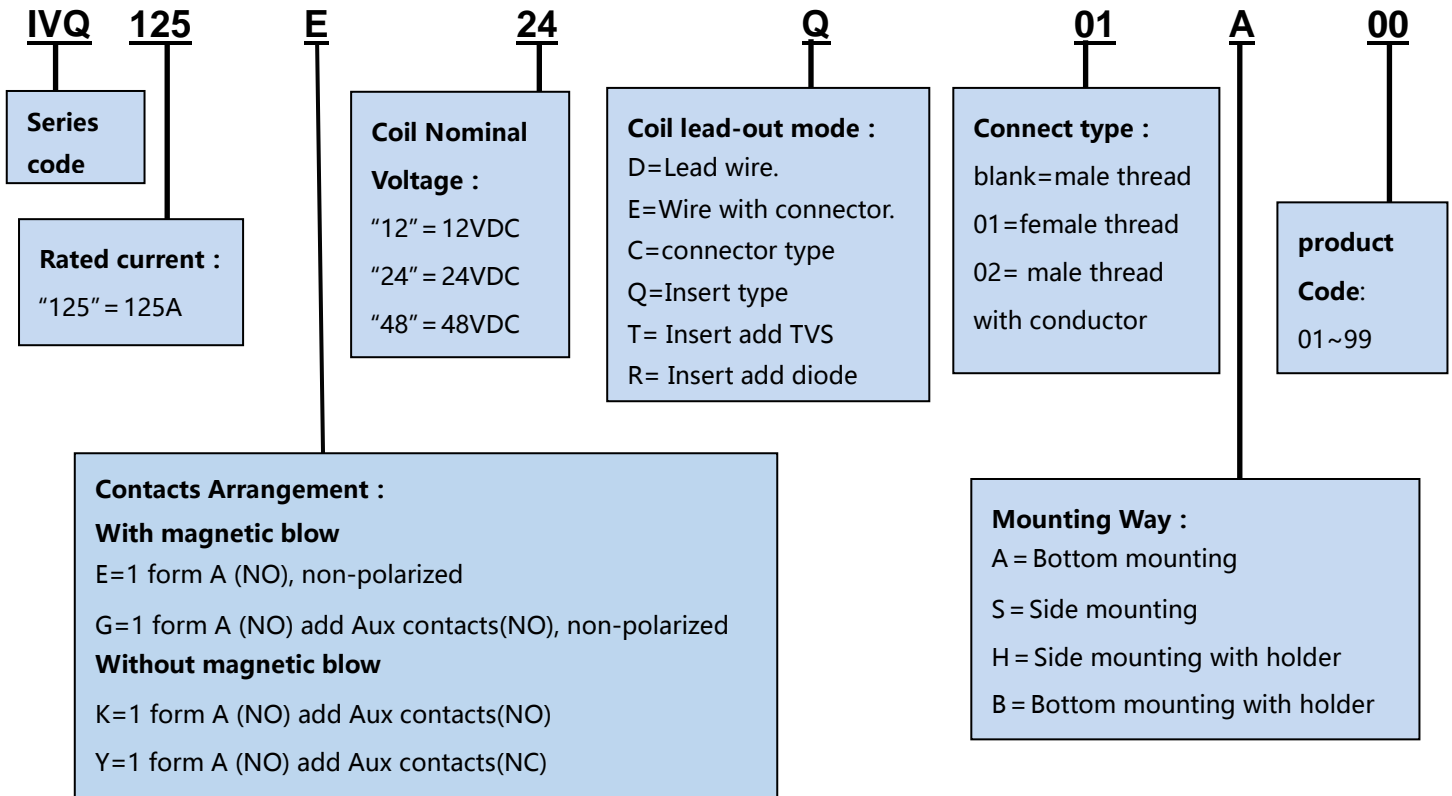
▲1 Load type : DC-1 , L/R≤1ms ;

▲2 Contact on time < 2ms ;

▲3 Operating frequency ,1s(on) : 9s(off)。

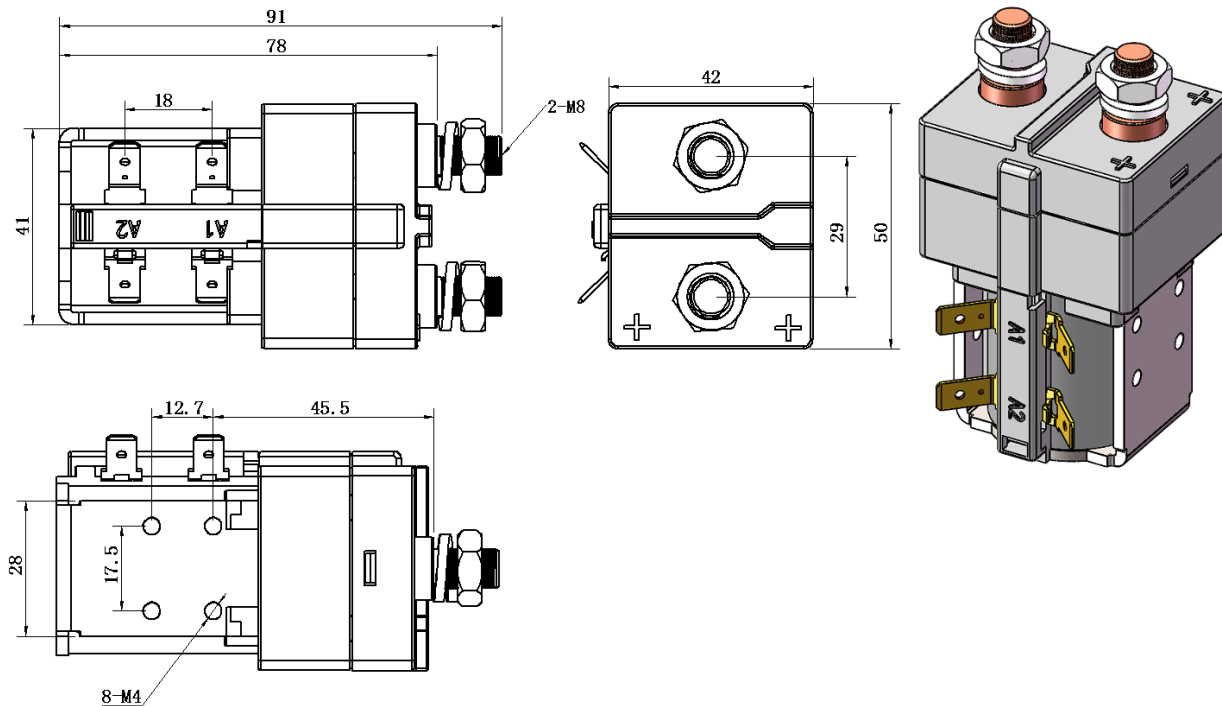
This product selection manual is only for customers' reference; The requirements of performance parameters in different application fields are different, and this manual can not completely describe them clearly, customer could choose the appropriate product according to the specific using conditions. If there is any queries, please contact ALQ for technical support.

### III、Part Number System



### IV、Dimensional drawing and electrical schematic diagram

#### Side mounting ( S )



Technical drawing of the JH125-125A relay showing three views: front, side, and isometric. The front view shows dimensions 91, 78, 18, 41, 1.5, 42, 29, 50, 58.6, and 2-M8. The side view shows dimensions 45.5, 59, 45.4, 28, and 26. The isometric view shows the relay with terminals A1, A2, and 2-M8. Below the views are terminal symbols for A1, A2, and the coil (线圈). A dashed box contains notes: 1. Unit: mm; 2. Visual Angle: symbol; 3. Tolerance not specified: <10mm: ±0.3, 10~50mm: ±0.6, >50mm: ±1.0. At the bottom, it states 'Coil is non-polarized'.

Current (A)	Duration (S)
125	900
150	500
200	350
300	200
400	100
500	50
600	25
700	10
800	5
900	2

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