

## Ex9QC Electromagnetic starter

### Overview

Electromagnetic starter is used to control the making or breaking of contactor by external signal and thermal relay combination and installed in the same metal box, the external switch signals to control according to the contact device connected and points to break, mainly used for exchange 50/60 Hz, rated voltage to 415 V, in AC-3 use category rated power to control under 18.5 kW circuit, used as a control motor start and stop, thermal relay to protect the motor of overload and the role of the broken phase.

2 models :



Ex9QC05



Ex9QC18



### Operating Conditions

#### Temperature

- -20°C ~ +40°C

#### Altitude

- altitude 2,000 m.

#### Humidity

The following conditions must be met during normal operation:

- If the ambient air temperature is +40°C, the atmospheric relative humidity can not exceed 50%. If the temperature is lower, use it under the conditions for a higher degree of humidity
- The monthly mean relative humidity needs to be below 90% in the dampest month
- The effects of condensation on the product surface impacts its performance and needs to be taken into consideration

#### Pollution Level

- Starter generally applied in pollution level III (conductivity, or due to pollution to dry the conductive gel pollution into the conductivity of the environment)

#### Installation

- Mounting surface and the slope of the vertical plane no more than  $\pm 30^\circ$
- Screw the installation, and additional corresponding spring washer, flat gasket

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### Parameters

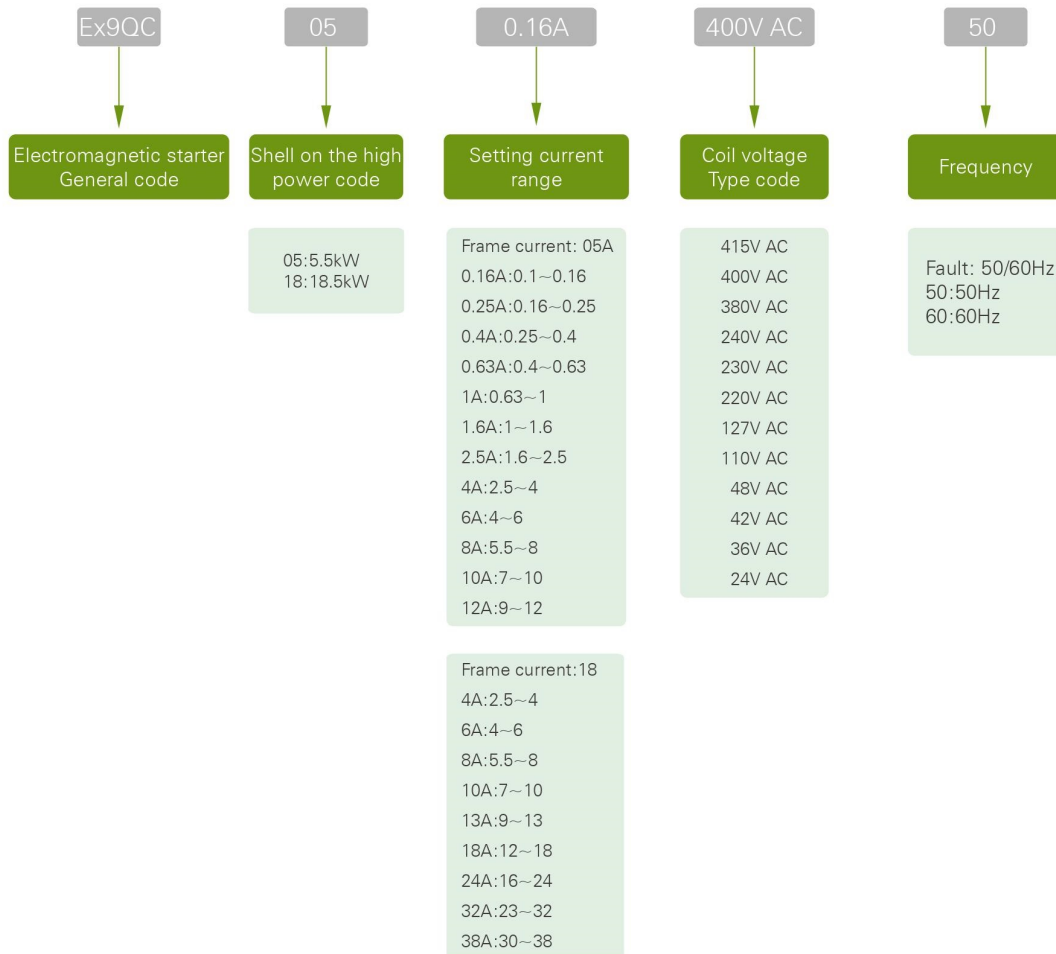
Ex9QC Series Electromagnetic starter	Ex9QC05	Ex9QC18
Control motor power (380V/415V) (kW)	5.5	18.5
Rated current (A)	12	38
Rated insulation voltage (V AC)	690	
Rated voltage (V AC)	to 415	
Operating frequency	30times/h	
Protection level	IP65	
Standards	IEC/EN60947-4-1	

### Selection

Model	Rated current I <sub>e</sub> (A)	Control motor power (kW)		Contactor	Thermal overload relay
		U <sub>e</sub> :380/415V	U <sub>e</sub> :220/240V		
Ex9QC05 0.16A	0.16	0.04	0.03	Ex9CS1210	Ex9R12 0.16A
Ex9QC05 0.25A	0.25	0.06	0.04		Ex9R12 0.25A
Ex9QC05 0.4A	0.4	0.09	0.06		Ex9R12 0.4A
Ex9QC05 0.63A	0.63	0.18	0.09		Ex9R12 0.63A
Ex9QC05 1A	1	0.25	0.12		Ex9R12 1A
Ex9QC05 1.6A	1.6	0.55	0.25		Ex9R12 1.6A
Ex9QC05 2.5A	2.5	0.75	0.37		Ex9R12 2.5A
Ex9QC05 4A	4	1.1	0.55		Ex9R12 4A
Ex9QC05 6A	6	2.2	1.1		Ex9R12 6A
Ex9QC05 8A	8	3	1.5		Ex9R12 8A
Ex9QC05 10A	10	4	2.2		Ex9R12 10A
Ex9QC05 12A	12	5.5	3		Ex9R12 12A
Ex9QC18 4A	4	1.5	0.75		Ex9C1811
Ex9QC18 6A	6	2.2	1.1	Ex9R38 6A	
Ex9QC18 8A	8	3	1.5	Ex9R38 8A	
Ex9QC18 10A	10	4	2.2	Ex9R38 10A	
Ex9QC18 13A	13	5.5	3	Ex9R38 13A	
Ex9QC18 18A	18	7.5	4	Ex9R38 18A	
Ex9QC18 24A	24	11	5.5	Ex9C3811	Ex9R38 24A
Ex9QC18 32A	32	15	7.5		Ex9R38 32A
Ex9QC18 38A	38	18.5	9		Ex9R38 38A

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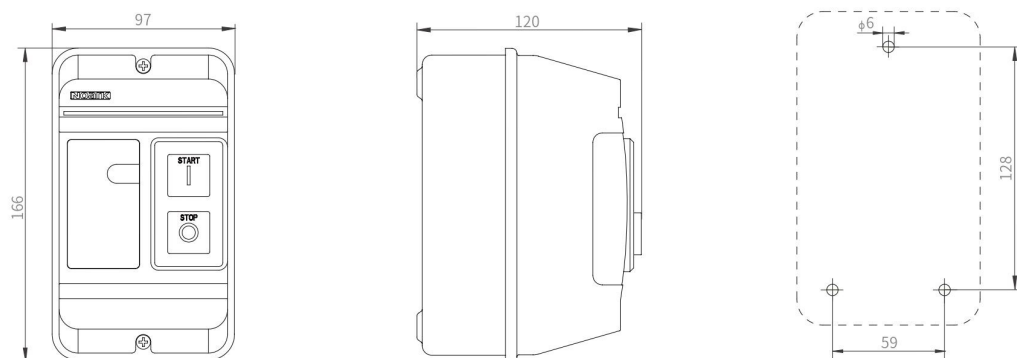


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## Dimension

mm

Ex9QC05



Ex9QC18

