

MCR-DO06-R

Datasheet

Document Version : 01

Publication Date: 2026-05-26



1 Product Overview

1.1 Product introduction

The MCR7 series expansion module is an IO module, integrating advanced industry technologies and components, suitable for MCR7 series PLCs.

1.2 Product Appearance



2 Main Information

Range of Product	MCR-DO06-R
Product Or Component Type	Digital output expansion module
Discrete output Number	6
Discrete output Type	Relay

3 Detail Specification

3.1 Module Specification – Digital Output

Characteristics		Parameter
Rated Voltage		24V DC; 220V AC
Input range		5~30V DC; 100~250V AC
Rated Current		Max 5A/Point
Peak	Maximum switching voltage	110V DC; 250V AC
	Current/point	5A
Isolation type		Relay coil
Maximum out put frequency	Max Load	0.1Hz
	Without load	5Hz
Resistive load		5A/Point, 24V DC/ 220V AC
Mechanical life		Minimum 20,000,000 times
Electrical contact life		Minimum 100,000 times
Short circuit protection		None
Wiring terminal		Removable terminal block

3.2 Environmental Characteristics

Category	Characteristic
Operating ambient temperature	-10℃~60℃
Storage temperature	-20℃~70℃
Relative humidity	55%~95%, without condensation
Class of pollution	2 (IEC60664)
Class of protection	IP20
Coating	Coated protection, dry film thickness $\geq 20\mu\text{m}$; reinforced dry film thickness $\geq 40\mu\text{m}$
Altitude	Operation: 0m~3,000m Transportation: $\leq 6,000\text{m}$
Seismic performance	5~13.2Hz Amplitude 7mm, 13Hz~100Hz Acceleration 2G, 20 times each in X, Y and Z axes
Impact performance	Semi-positive sine wave, acceleration 15G, duration 11ms, 6 times in each of the X, Y and Z directions

3.3 Electromagnetic Susceptibility

Standard	Method	Item
EN IEC 61000-6-4:2019	CISPR 16-2-1	Conducted Emissions at AC Mains Power Port(150kHz-30MHz)
	CISPR 32	Conducted Emissions at Wired Network Port(150kHz-30MHz)
	CISPR 16-2-3	Radiated Emissions(30MHz-1GHz)
	CISPR 16-2-3	Radiated Emissions(Above 1GHz)
EN IEC 61000-6-2:2019	EN 61000-4-6:2014	Conducted Immunity at AC Mains Power Port(150kHz-80MHz)
	EN 61000-4-6:2014	Conducted Immunity at Signal Port(150kHz-80MHz)
	EN 61000-4-4:2012	Electrical Fast Transients Burst at AC Mains Power Port
	EN 61000-4-4:2012	Electrical Fast Transients Burst at Signal Port
	EN 61000-4-2:2009	Electro static Discharge
	EN 61000-4-8:2010	Power Frequency Magnetic Field
	EN IEC 61000-4-3:2020	Radiated Immunity(80MHz-6GHz)
	EN 61000-4-5:2014+A1:2017	Surge at AC Mains Power Port
	EN 61000-4-5:2014+A1:2017	Surge at Signal Port
	EN IEC 61000-4-11:2020	Voltage Dips and Interruptions

4.1 Product dimension

Dimension (Unit mm)

