

MELSEC-QS series general specifications

Item	Specifications					
Operating ambient temperature	0 to 55°C					
Storage ambient temperature	-40 to 75°C					
Operating ambient humidity	5 to 95% RH, non-condensing					
Storage ambient humidity	5 to 95% RH, non-condensing					
Vibration resistance	Conforms to JIS B 3502, IEC61131-2	Under intermittent vibration	Frequency range 5 to 8.4 Hz	Constant acceleration –	Half amplitude 3.5 mm	Sweep count 10 times each in X, Y, Z directions
		Under continuous vibration	8.4 to 150 Hz	9.8 m/s ²	–	
			5 to 8.4 Hz	–	1.75 mm	–
		8.4 to 150 Hz	4.9 m/s ²	–	–	
Shock resistance	Conforms to JIS B 3502, IEC61131-2 (147 m/s ² , 11 ms shock pulse duration, shine half-wave pulse applied 3 times each in X, Y, Z directions.)					
Operating ambience	No corrosive gases					
Operating altitude ^{*2}	2,000 m (6562 ft.) or less					
Installation location	Inside control panel					
Overvoltage category ^{*1}	II or less					
Pollution degree ^{*2}	2 or less					
Equipment category	Class I					

*1: This indicates the section of power supply to which the equipment is assumed to be connected between the public electrical power distribution network and the machinery within the premises. Category II applies to equipment for which electrical power is supplied from fixed facilities. The surge voltage withstand level for up to the rated voltage of 300 V is 2500 V.

*2: This index indicates the degree to which conductive material is generated in the environment where the device is used. Pollution degree 2 is when only non-conductive pollution occurs. However, temporary conductivity caused by condensation is to be expected.

*3: Do not store or use the programmable controller under the pressure higher than the atmospheric pressure of altitude 0 m. Doing so can cause a malfunction. When using the programmable controller under pressure, please consult your local sales representative.

Safety power supply module specifications

Item	QS061P-A1	QS061P-A2
Mounting position on base	QS series power supply module mounting slot	
Applicable base unit	QS034B	
Input power supply	100 to 120 V AC (85 to 132 V AC)	200 to 240 V AC (170 to 264 V AC)
Input frequency	50/60 Hz ± 5%	
Input voltage distortion factor	5% or less	
Max. input apparent power	125 VA	
Inrush current	20 A 8 ms or less	
Rated output current	6 A	
Overcurrent protection	6.6 A or more	
Overvoltage protection	5.5 to 6.5 V	
Efficiency	70% or more	
Allowable momentary power failure period	20 ms or less	
Dielectric withstand voltage	Across inputs/LG and outputs/FG 1780 Vrms AC/3 cycles (Altitude: 2,000 m [6562 ft.])	Across inputs/LG and outputs/FG 2830 Vrms AC/3 cycles (Altitude: 2,000 m [6562 ft.])
Insulation resistance	Across Inputs/LG and outputs/FG, across inputs and LG, across outputs and FG: 10 MΩ or more by 500 V DC insulation resistance tester	
Noise immunity	<ul style="list-style-type: none"> By noise simulator of 1500 Vp-p noise voltage, 1 μs pulse width, and 25 to 60 Hz noise frequency Noise voltage IEC61000-4-4, 2 kV 	
Operation indication	LED indicators (Normal: ON [green]; error: OFF)	
Fuse	Built-in (unchangeable by user)	
Contact output section	Application	ERR. contact
	Rated switching voltage/current	24 V DC, 0.5 A
	Min. switching load	5 V DC, 1 mA
	Response time	OFF to ON: 10 ms or less, ON to OFF: 12 ms or less
	Life	Mechanical: 20,000,000 times more; electrical: 100,000 times or more at rated switching voltage/current.
	Surge suppressor	No
	Fuse	No
Terminal screw size	M3.5 screw	
Applicable wire size	0.75 to 2 mm ²	
Applicable crimping terminal	RAV1.25-3.5, RAV2-3.5 (thickness of 0.8 mm or less)	
Applicable tightening torque	0.66 to 0.89 N·m	
Weight	0.40 kg	