Product datasheet

Specifications





I/O module MES120 - Sepam series 60, 80 - 14 inputs+ 6 outputs 24...250V DC

59715

Main

Module Type	Input/output module
Range Of Product	Sepam series 80 Sepam series 60
Device Short Name	MES120

Complementary

Input/Output Type	14 inputs + 6 outputs 24250 V at DC
Logic Input Number	14 24250 V 19.2275 V DC 3 mA 14 V enhanced
Number Of Outputs	1 control relay 5 annunciation relay
Number Of Outputs Output Type	•
	Control relay: 24 V DC continuous current: 8 A breaking capacity: 0.008 kA resistive making capacity: < 15 A for 200 ms Control relay: 250 V DC continuous current: 8 A breaking capacity: 0.0002 kA
	resistive making capacity: < 15 A for 200 ms Control relay: 48 V DC continuous current: 8 A breaking capacity: 0.001 kA L/R < 40 ms making capacity: < 15 A for 200 ms
	Control relay: 48 V DC continuous current: 8 A breaking capacity: 0.002 kA L/R < 20 ms making capacity: < 15 A for 200 ms Control relay: 48 V DC continuous current: 8 A breaking capacity: 0.004 kA resistive making capacity: < 15 A for 200 ms

Height	170 mm
Width	40 mm
Depth	120 mm
Net Weight	0.38 kg
Mechanical Robustness	Earthquakes in operation (level: 2) : 1 Gn (vertical axes) conforming to IEC 60255-21-3
	Earthquakes in operation (level: 2) : 2 Gn (horizontal axes) conforming to IEC 60255-21-3
	Jolts de-energized (level: 2) : 20 Gn/16 ms conforming to IEC 60255-21-2
	Shocks de-energized (level: 2) : 27 Gn/11 ms conforming to IEC 60255-21-2
	Shocks in operation (level: 2) : 10 Gn/11 ms conforming to IEC 60255-21-2
	Vibrations de-energized (level: 2) : 2 Gn, 10 Hz150 Hz conforming to IEC 60255-21-1
	Vibrations in operation (level: 2) : 1 Gn, 10 Hz150 Hz conforming to IEC 60255-21-1
	Vibrations in operation (level: Fc) : 2 Hz13.2 Hz, a = +/- 1 mm conforming to IEC 60068-2-6
Auxiliary Connection Terminal	Screw-type connectors1 cable(s) 0.22.5 mm ²
	Screw-type connectors1 cable(s) 1.5 mm ²
	Screw-type connectors1 cable(s) 2.5 mm ²
	Screw-type connectors2 cable(s) 0.21 mm ²
	Screw-type connectors2 cable(s) 1 mm ²

Environment

Electromagnetic Compatibility	 1 MHz damped oscillating wave: (immunity tests-conducted disturbances), 2.5 kV CM, 1 kV DM, conforming to IEC 60255-22-1 1 MHz damped oscillating wave: (immunity tests-conducted disturbances), 2.5 kV CM, 2.5 kV DM, conforming to ANSI C37.90.1 100 kHz damped oscillating wave: (immunity tests-conducted disturbances), 2.5 kV CM, 1 kV DM, conforming to IEC 61000-4-12 Conducted disturbance emission: (emission tests), conforming to IEC 60255-25 Conducted disturbance emission: (emission tests), A, conforming to EN 55022 Disturbing field emission: (emission tests), A, conforming to EN 55022 Electrostatic discharge: (immunity tests-radiated disturbances), 8 kV air, 4 kV contact, conforming to ANSI C37.90.3 Electrostatic discharge: (immunity tests-radiated disturbances), 8 kV air, 6 kV contact, conforming to IEC 60255-22-2 Fast transient bursts: (immunity tests-conducted disturbances), 4 kV, 2.5 kHz, conforming to ANSI C37.90.3 Electrostatic discharge: (immunity tests-conducted disturbances), 4 kV, 2.5 kHz, conforming to ANSI C37.90.1 Fast transient bursts: (immunity tests-conducted disturbances), 4 kV, 2.5 kHz, conforming to IEC 60255-22-4 Fast transient bursts: (immunity tests-conducted disturbances), IV, 4 kV, 2.5 kHz, conforming to IEC 61000-4-4 Immunity to conducted RF disturbances: (immunity tests-conducted disturbances), III, 10 V, conforming to IEC 60255-22-3 Immunity to radiated fields: (immunity tests-radiated disturbances), 10 V/m, 80 MHz 1 GHz, conforming to IEC 60255-22-3 Immunity to radiated fields: (immunity tests-radiated disturbances), 35 V/m, 25 MHz 1 GHz, conforming to IEC 60255-22-3 Immunity to radiated fields: (immunity tests-radiated disturbances), 10 V/m, 80 MHZ 1 GHz, conforming to IEC 60255-22-3 Immunity to radiated fields: (immunity tests-radiated disturbances), 35 V/m, 25 MHz 1 GHz, conforming to IEC 60255-22-3 Immunity to
	Voltage interruptions: (immunity tests-conducted disturbances), 100 % during 100 ms, conforming to IEC 60255-11

Climatic Withstand

Influence of corrosion/gaz test 2 (in operation) : 21 days, 75 % RH, 25 °C, 0.5 ppm H2S, 1 ppm S02 conforming to IEC 60068-2-60
Influence of corrosion/gaz test 4 (in operation) : 21 days, 75 % RH, 25 °C, 0.01 ppm H2S, 0.2 ppm S02, 0.2 ppm NO2, 0.01 ppm Cl2 conforming to IEC 60068-2-60 Continuous exposure to damp heat (in operation) : Cab: 10 days, 93 % RH, 40 °C
conforming to IEC 60068-2-78
Continuous exposure to damp heat (in storage) : Cab: 56 days, 93 % RH, 40 °C conforming to IEC 60068-2-78
Continuous exposure to damp heat (in storage) : Db: 6 days, 95 % RH, 55 °C conforming to IEC 60068-2-30
Exposure to cold (in operation) : Ad: - 25 °C conforming to IEC 60068-2-1
Exposure to cold (in storage) : Ab: - 25 °C conforming to IEC 60068-2-1
Exposure to dry heat (in operation) : Bd: 70 °C conforming to IEC 60068-2-2
Exposure to dry heat (in storage) : Bb: 70 °C conforming to IEC 60068-2-2 Salt mist (in operation) : Kb/2: 6 days conforming to IEC 60068-2-52
Temperature variation with specified variation rate (in storage) : Nb: - 25 °C to 70 °C, 5 °C/min conforming to IEC 60068-2-14

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.300 cm
Package 1 Width	15.000 cm
Package 1 Length	21.100 cm
Package 1 Weight	525.000 g
Unit Type Of Package 2	\$03
Number Of Units In Package 2	10
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	5.700 kg
Unit Type Of Package 3	P12
Number Of Units In Package 3	80
Package 3 Height	50.000 cm
Package 3 Width	80.000 cm
Package 3 Length	120.000 cm
Package 3 Weight	58.136 kg

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance



Rohs Exemption Information
 Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information