

# Product datasheet

Specifications



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

59715

### Main

<b>Module type</b>	Input/output module
<b>Range of product</b>	Sepam series 80 Sepam series 60
<b>Device short name</b>	MES120

### Complementary

<b>Input/Output type</b>	14 inputs + 6 outputs 24...250 V at DC
<b>Logic input number</b>	14 24...250 V 19.2...275 V DC 3 mA 14 V enhanced
<b>Number of outputs</b>	1 control relay 5 annunciation relay

### Output type

Annunciation relay: 100...240 V AC 47.5...63 Hz continuous current: 2 A breaking capacity: 0.001 kA  $\cos \varphi > 0.3$   
 Annunciation relay: 127 V DC continuous current: 2 A breaking capacity: 0.0005 kA L/R < 20 ms  
 Annunciation relay: 220 V DC continuous current: 2 A breaking capacity: 0.00015 kA L/R < 20 ms  
 Annunciation relay: 24 V DC continuous current: 2 A breaking capacity: 0.002 kA L/R < 20 ms  
 Annunciation relay: 250 V DC continuous current: 2 A breaking capacity: 0.0002 kA L/R < 20 ms  
 Annunciation relay: 48 V DC continuous current: 2 A breaking capacity: 0.001 kA L/R < 20 ms  
 Control relay: 100...240 V AC 47.5...63 Hz continuous current: 8 A breaking capacity: 0.005 kA  $\cos \varphi > 0.3$  making capacity: < 15 A for 200 ms  
 Control relay: 100...240 V AC 47.5...63 Hz continuous current: 8 A breaking capacity: 0.008 kA resistive making capacity: < 15 A for 200 ms  
 Control relay: 127 V DC continuous current: 8 A breaking capacity: 0.0002 kA L/R < 40 ms making capacity: < 15 A for 200 ms  
 Control relay: 127 V DC continuous current: 8 A breaking capacity: 0.0005 kA L/R < 20 ms making capacity: < 15 A for 200 ms  
 Control relay: 127 V DC continuous current: 8 A breaking capacity: 0.0007 kA resistive making capacity: < 15 A for 200 ms  
 Control relay: 220 V DC continuous current: 8 A breaking capacity: 0.0001 kA L/R < 40 ms making capacity: < 15 A for 200 ms  
 Control relay: 220 V DC continuous current: 8 A breaking capacity: 0.0002 kA L/R < 20 ms making capacity: < 15 A for 200 ms  
 Control relay: 220 V DC continuous current: 8 A breaking capacity: 0.0003 kA resistive making capacity: < 15 A for 200 ms  
 Control relay: 24 V DC continuous current: 8 A breaking capacity: 0.004 kA L/R < 40 ms making capacity: < 15 A for 200 ms  
 Control relay: 24 V DC continuous current: 8 A breaking capacity: 0.006 kA L/R < 20 ms making capacity: < 15 A for 200 ms  
 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

<b>Height</b>	170 mm
<b>Width</b>	40 mm
<b>Depth</b>	120 mm

<b>Net weight</b>	0.38 kg
<b>Mechanical robustness</b>	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 Hz...150 Hz conforming to IEC 60255-21-1 Vibrations in operation (level: 2) : 1 Gn, 10 Hz...150 Hz conforming to IEC 60255-21-1 Vibrations in operation (level: Fc) : 2 Hz...13.2 Hz, a = +/- 1 mm conforming to IEC 60068-2-6
<b>Auxiliary connection terminal</b>	Screw-type connectors1 cable(s) 0.2...2.5 mm <sup>2</sup> Screw-type connectors1 cable(s) 1.5 mm <sup>2</sup> Screw-type connectors1 cable(s) 2.5 mm <sup>2</sup> Screw-type connectors2 cable(s) 0.2...1 mm <sup>2</sup> Screw-type connectors2 cable(s) 1 mm <sup>2</sup>

## Environment

<b>Electromagnetic compatibility</b>	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), conforming to IEC 60255-25 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), 4kV, 2.5 kHz, conforming to ANSI C37.90.1 Fast transient bursts: (immunity tests-conducted disturbances), A and B, 4kV, 2.5 kHz/2 kV, 5 kHz, conforming to IEC 60255-22-4 Fast transient bursts: (immunity tests-conducted disturbances), IV, 4kV, 2.5 kHz, conforming to IEC 61000-4-4 Immunity to conducted RF disturbances: (immunity tests-conducted disturbances), III, 10 V, conforming to IEC 60255-22-6 Immunity to magnetic fields at network frequency: (immunity tests-radiated disturbances), IV, 30 A/m (continuous)-300 A/m (1-3 s), conforming to IEC 61000-4-8 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 ANSI C37.90.2 Immunity to radiated fields: (immunity tests-radiated disturbances), III, 10 V/m, 80 MHz...2 GHz, conforming to IEC 61000-4-3 Surges: (immunity tests-conducted disturbances), III, 2 kV CM, 1 kV DM, conforming to IEC 61000-4-5 Voltage interruptions: (immunity tests-conducted disturbances), 100 % during 100 ms, conforming to IEC 60255-11
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<b>Climatic withstand</b>	Influence of corrosion/gaz test 2 (in operation) : 21 days, 75 % RH, 25 °C, 0.5 ppm H <sub>2</sub> S, 1 ppm SO <sub>2</sub> conforming to IEC 60068-2-60 Influence of corrosion/gaz test 4 (in operation) : 21 days, 75 % RH, 25 °C, 0.01 ppm H <sub>2</sub> S, 0.2 ppm SO <sub>2</sub> , 0.2 ppm NO <sub>2</sub> , 0.01 ppm Cl <sub>2</sub> 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
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## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	5.300 cm
<b>Package 1 Width</b>	15.000 cm
<b>Package 1 Length</b>	21.100 cm
<b>Package 1 Weight</b>	525.000 g
<b>Unit Type of Package 2</b>	S03

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

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a>
RoHS exemption information	<a href="#">Yes</a>

## Recommended replacement(s)