

# Product datasheet

Specifications



## I/O module MES120H - Sepam series 60, 80 - 14 inputs+ 6 outputs 110...125V DC

59722

! To be discontinued

! To be discontinued on: 31 Dec 2026

! To be end-of-service on: 31 Dec 2030

EAN Code: 3303430597223

### Main

Module type	Input/output module
Range of product	Sepam series 60 Sepam series 80
Device short name	MES120H

### Complementary

Input/output type	14 inputs + 6 outputs 110...125 V at DC
Logic input number	14 110...125 V 88...150 V DC 3 mA 82 V enhanced
Number of outputs	1 control relay 5 annunciation relay

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

<b>Output type</b>	<p>Annunciation relay: 100...240 V AC 47.5...63 Hz continuous current: 2 A breaking capacity: 0.001 kA <math>\cos \varphi &gt; 0.3</math></p> <p>Annunciation relay: 127 V DC continuous current: 2 A breaking capacity: 0.0005 kA L/R &lt; 20 ms</p> <p>Annunciation relay: 220 V DC continuous current: 2 A breaking capacity: 0.00015 kA L/R &lt; 20 ms</p> <p>Annunciation relay: 24 V DC continuous current: 2 A breaking capacity: 0.002 kA L/R &lt; 20 ms</p> <p>Annunciation relay: 250 V DC continuous current: 2 A breaking capacity: 0.0002 kA L/R &lt; 20 ms</p> <p>Annunciation relay: 48 V DC continuous current: 2 A breaking capacity: 0.001 kA L/R &lt; 20 ms</p> <p>Control relay: 100...240 V AC 47.5...63 Hz continuous current: 8 A breaking capacity: 0.005 kA <math>\cos \varphi &gt; 0.3</math> making capacity: &lt; 15 A for 200 ms</p> <p>Control relay: 100...240 V AC 47.5...63 Hz continuous current: 8 A breaking capacity: 0.008 kA resistive making capacity: &lt; 15 A for 200 ms</p> <p>Control relay: 127 V DC continuous current: 8 A breaking capacity: 0.0002 kA L/R &lt; 40 ms making capacity: &lt; 15 A for 200 ms</p> <p>Control relay: 127 V DC continuous current: 8 A breaking capacity: 0.0005 kA L/R &lt; 20 ms making capacity: &lt; 15 A for 200 ms</p> <p>Control relay: 127 V DC continuous current: 8 A breaking capacity: 0.0007 kA resistive making capacity: &lt; 15 A for 200 ms</p> <p>Control relay: 220 V DC continuous current: 8 A breaking capacity: 0.0001 kA L/R &lt; 40 ms making capacity: &lt; 15 A for 200 ms</p> <p>Control relay: 220 V DC continuous current: 8 A breaking capacity: 0.0002 kA L/R &lt; 20 ms making capacity: &lt; 15 A for 200 ms</p> <p>Control relay: 220 V DC continuous current: 8 A breaking capacity: 0.0003 kA resistive making capacity: &lt; 15 A for 200 ms</p> <p>Control relay: 24 V DC continuous current: 8 A breaking capacity: 0.004 kA L/R &lt; 40 ms making capacity: &lt; 15 A for 200 ms</p> <p>Control relay: 24 V DC continuous current: 8 A breaking capacity: 0.006 kA L/R &lt; 20 ms making capacity: &lt; 15 A for 200 ms</p> <p>Control relay: 24 V DC continuous current: 8 A breaking capacity: 0.008 kA resistive making capacity: &lt; 15 A for 200 ms</p> <p>Control relay: 250 V DC continuous current: 8 A breaking capacity: 0.0002 kA resistive making capacity: &lt; 15 A for 200 ms</p> <p>Control relay: 48 V DC continuous current: 8 A breaking capacity: 0.001 kA L/R &lt; 40 ms making capacity: &lt; 15 A for 200 ms</p> <p>Control relay: 48 V DC continuous current: 8 A breaking capacity: 0.002 kA L/R &lt; 20 ms making capacity: &lt; 15 A for 200 ms</p> <p>Control relay: 48 V DC continuous current: 8 A breaking capacity: 0.004 kA resistive making capacity: &lt; 15 A for 200 ms</p>
<b>Height</b>	170 mm
<b>Width</b>	40 mm
<b>Depth</b>	120 mm
<b>Product weight</b>	0.38 kg
<b>Mechanical robustness</b>	<p>Earthquakes in operation (level: 2) : 1 Gn (vertical axes) conforming to IEC 60255-21-3</p> <p>Earthquakes in operation (level: 2) : 2 Gn (horizontal axes) conforming to IEC 60255-21-3</p> <p>Jolts de-energized (level: 2) : 20 Gn/16 ms conforming to IEC 60255-21-2</p> <p>Shocks de-energized (level: 2) : 27 Gn/11 ms conforming to IEC 60255-21-2</p> <p>Shocks in operation (level: 2) : 10 Gn/11 ms conforming to IEC 60255-21-2</p> <p>Vibrations de-energized (level: 2) : 2 Gn, 10 Hz...150 Hz conforming to IEC 60255-21-1</p> <p>Vibrations in operation (level: 2) : 1 Gn, 10 Hz...150 Hz conforming to IEC 60255-21-1</p> <p>Vibrations in operation (level: Fc) : 2 Hz...13.2 Hz, a = +/- 1 mm conforming to IEC 60068-2-6</p>
<b>Auxiliary connection terminal</b>	<p>Screw-type connectors1 cable(s) 0.2...2.5 mm<sup>2</sup></p> <p>Screw-type connectors1 cable(s) 1.5 mm<sup>2</sup></p> <p>Screw-type connectors1 cable(s) 2.5 mm<sup>2</sup></p> <p>Screw-type connectors2 cable(s) 0.2...1 mm<sup>2</sup></p> <p>Screw-type connectors2 cable(s) 1 mm<sup>2</sup></p>

## Environment

<b>Electromagnetic compatibility</b>	<p>1 MHz damped oscillating wave: (immunity tests-conducted disturbances), 2.5 kV CM, 1 kV DM, conforming to IEC 60255-22-1</p> <p>1 MHz damped oscillating wave: (immunity tests-conducted disturbances), 2.5 kV CM, 2.5 kV DM, conforming to ANSI C37.90.1</p> <p>100 kHz damped oscillating wave: (immunity tests-conducted disturbances), 2.5 kV CM, 1 kV DM, conforming to IEC 61000-4-12</p> <p>Conducted disturbance emission: (emission tests), conforming to IEC 60255-25</p> <p>Conducted disturbance emission: (emission tests), A, conforming to EN 55022</p> <p>Disturbing field emission: (emission tests), conforming to IEC 60255-25</p> <p>Disturbing field emission: (emission tests), A, conforming to EN 55022</p> <p>Electrostatic discharge: (immunity tests-radiated disturbances), 8 kV air, 4 kV contact, conforming to ANSI C37.90.3</p> <p>Electrostatic discharge: (immunity tests-radiated disturbances), 8 kV air, 6 kV contact, conforming to IEC 60255-22-2</p> <p>Fast transient bursts: (immunity tests-conducted disturbances), 4kV, 2.5 kHz, conforming to ANSI C37.90.1</p> <p>Fast transient bursts: (immunity tests-conducted disturbances), A and B, 4kV, 2.5 kHz/2 kV, 5 kHz, conforming to IEC 60255-22-4</p> <p>Fast transient bursts: (immunity tests-conducted disturbances), IV, 4kV, 2.5 kHz, conforming to IEC 61000-4-4</p> <p>Immunity to conducted RF disturbances: (immunity tests-conducted disturbances), III, 10 V, conforming to IEC 60255-22-6</p> <p>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</p> <p>Immunity to radiated fields: (immunity tests-radiated disturbances), 10 V/m, 80 MHz... 1 GHz, conforming to IEC 60255-22-3</p> <p>Immunity to radiated fields: (immunity tests-radiated disturbances), 35 V/m, 25 MHz... 1 GHz, conforming to ANSI C37.90.2</p> <p>Immunity to radiated fields: (immunity tests-radiated disturbances), III, 10 V/m, 80 MHz...2 GHz, conforming to IEC 61000-4-3</p> <p>Surges: (immunity tests-conducted disturbances), III, 2 kV CM, 1 kV DM, conforming to IEC 61000-4-5</p> <p>Voltage interruptions: (immunity tests-conducted disturbances), 100 % during 100 ms, conforming to IEC 60255-11</p>
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<b>Climatic withstand</b>	<p>Influence of corrosion/gaz test 2 (in operation) : 21 days, 75 % RH, 25 °C, 0.5 ppm H2S, 1 ppm SO2 conforming to IEC 60068-2-60</p> <p>Influence of corrosion/gaz test 4 (in operation) : 21 days, 75 % RH, 25 °C, 0.01 ppm H2S, 0.2 ppm SO2, 0.2 ppm NO2, 0.01 ppm Cl2 conforming to IEC 60068-2-60</p> <p>Continuous exposure to damp heat (in operation) : Cab: 10 days, 93 % RH, 40 °C conforming to IEC 60068-2-78</p> <p>Continuous exposure to damp heat (in storage) : Cab: 56 days, 93 % RH, 40 °C conforming to IEC 60068-2-78</p> <p>Continuous exposure to damp heat (in storage) : Db: 6 days, 95 % RH, 55 °C conforming to IEC 60068-2-30</p> <p>Exposure to cold (in operation) : Ad: - 25 °C conforming to IEC 60068-2-1</p> <p>Exposure to cold (in storage) : Ab: - 25 °C conforming to IEC 60068-2-1</p> <p>Exposure to dry heat (in operation) : Bd: 70 °C conforming to IEC 60068-2-2</p> <p>Exposure to dry heat (in storage) : Bb: 70 °C conforming to IEC 60068-2-2</p> <p>Salt mist (in operation) : Kb/2: 6 days conforming to IEC 60068-2-52</p> <p>Temperature variation with specified variation rate (in storage) : Nb: - 25 °C to 70 °C, 5 °C/min conforming to IEC 60068-2-14</p>
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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>	6.0 cm
<b>Package 1 Width</b>	14.5 cm
<b>Package 1 Length</b>	21.0 cm
<b>Package 1 Weight</b>	520.0 g
<b>Unit Type of Package 2</b>	S03
<b>Number of Units in Package 2</b>	10
<b>Package 2 Height</b>	30.0 cm
<b>Package 2 Width</b>	30.0 cm
<b>Package 2 Length</b>	40.0 cm
<b>Package 2 Weight</b>	5.913 kg

## Logistical informations

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Country of origin FR

## Contractual warranty

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Warranty (in months) 18



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Use Better



#### Materials and Substances

Packaging made with recycled cardboard

No

Packaging without single use plastic

No

EU RoHS Directive

[Compliant By Exemption](#)

REACH Regulation

[Reference contains Substances of Very High Concern above the threshold](#)

### Use Longer



#### Lifetime extension

Repair

No

### Use Again



#### Repack and remanufacture

Take-back

No