



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 DC
Logic input number	14 : 110...125 V, limits: 88...150 V DC input current: 3 mA threshold tripping voltage: 82 V enhanced
Number of outputs	1 control relay output(s) 5 annunciation relay output(s)
Output type	Annunciation relay : 100...240 V AC 47.5...63 Hz continuous current: 2 A breaking capacity: 0.001 kA $\cos \phi > 0.3$ 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 $\cos \phi > 0.3$ 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

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

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

Height	170 mm
Width	40 mm
Depth	120 mm
Product 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 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
Auxiliary connection terminal	Screw-type connectors 1 cable(s) 1.5 mm <sup>2</sup> Screw-type connectors 1 cable(s) 2.5 mm <sup>2</sup> Screw-type connectors 2 cable(s) 1 mm <sup>2</sup> Screw-type connectors 1 cable(s) 0.2...2.5 mm <sup>2</sup> Screw-type connectors 2 cable(s) 0.2...1 mm <sup>2</sup>

## 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 tests conforming to IEC 60255-25 Conducted disturbance emission tests: A conforming to EN 55022 Disturbing field emission tests conforming to IEC 60255-25 Disturbing field 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
Climatic withstand	Exposure to cold (in operation) : Ad: - 25 °C conforming to IEC 60068-2-1 Exposure to dry heat (in operation) : Bd: 70 °C conforming to IEC 60068-2-2 Continuous exposure to damp heat (in operation) : Cab: 10 days, 93 % RH, 40 °C conforming to IEC 60068-2-78 Salt mist (in operation) : Kb/2: 6 days conforming to IEC 60068-2-52 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

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  
 Temperature variation with specified variation rate (in storage) : Nb: - 25 °C to 70 °C, 5 °C/min conforming to IEC 60068-2-14  
 Exposure to cold (in storage) : Ab: - 25 °C conforming to IEC 60068-2-1  
 Exposure to dry heat (in storage) : Bb: 70 °C conforming to IEC 60068-2-2  
 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

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0949 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product environmental profile	Available <a href="#">Product environmental</a>
Product end of life instructions	Available

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