



## Main

|                   |                     |
|-------------------|---------------------|
| Module type       | Input/output module |
| Range of product  | Sepam series 80 NPP |
| Device short name | MES120HNPP          |

## 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)<br>5 annunciation relay output(s)   |
| Output type        | <p>Annunciation relay : 100...240 V AC 47.5...63 Hz continuous current: 2 A breaking capacity: 0.001 kA <math>\cos \phi &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 \phi &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> |

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: 0.008 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<br>Earthquakes in operation ( level: 2 ) : 2 Gn (horizontal axes) conforming to IEC 60255-21-3<br>Jolts de-energized ( level: 2 ) : 20 Gn/16 ms conforming to IEC 60255-21-2<br>Shocks de-energized ( level: 2 ) : 27 Gn/11 ms conforming to IEC 60255-21-2<br>Shocks in operation ( level: 2 ) : 10 Gn/11 ms conforming to IEC 60255-21-2<br>Vibrations de-energized ( level: 2 ) : 2 Gn, 10 Hz...150 Hz conforming to IEC 60255-21-1<br>Vibrations in operation ( level: 2 ) : 1 Gn, 10 Hz...150 Hz conforming to IEC 60255-21-1<br>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><br>Screw-type connectors 1 cable(s) 2.5 mm <sup>2</sup><br>Screw-type connectors 2 cable(s) 1 mm <sup>2</sup><br>Screw-type connectors 1 cable(s) 0.2...2.5 mm <sup>2</sup><br>Screw-type connectors 2 cable(s) 0.2...1 mm <sup>2</sup>   |

## Environment

|                               |   |
|-------------------------------|---|
| Electromagnetic compatibility | Fast transient bursts immunity tests-conducted disturbances : IV (4kV, 2.5 kHz ) conforming to IEC 61000-4-4<br>Immunity to radiated fields immunity tests-radiated disturbances : III (10 V/m, 80 MHz...2 GHz ) conforming to IEC 61000-4-3<br>Fast transient bursts immunity tests-conducted disturbances : A and B (4kV, 2.5 kHz/2 kV, 5 kHz ) conforming to IEC 60255-22-4<br>Immunity to conducted RF disturbances immunity tests-conducted disturbances : III (10 V ) conforming to IEC 60255-22-6<br>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<br>Surges immunity tests-conducted disturbances : III (2 kV CM, 1 kV DM ) conforming to IEC 61000-4-5<br>1 MHz damped oscillating wave immunity tests-conducted disturbances (2.5 kV CM, 1 kV DM ) conforming to IEC 60255-22-1<br>1 MHz damped oscillating wave immunity tests-conducted disturbances (2.5 kV CM, 2.5 kV DM ) conforming to ANSI C37.90.1<br>100 kHz damped oscillating wave immunity tests-conducted disturbances (2.5 kV CM, 1 kV DM ) conforming to IEC 61000-4-12<br>Conducted disturbance emission tests conforming to IEC 60255-25<br>Conducted disturbance emission tests: A conforming to EN 55022<br>Disturbing field emission tests conforming to IEC 60255-25<br>Disturbing field emission tests: A conforming to EN 55022<br>Electrostatic discharge immunity tests-radiated disturbances (8 kV air, 4 kV contact ) conforming to ANSI C37.90.3<br>Electrostatic discharge immunity tests-radiated disturbances (8 kV air, 6 kV contact ) conforming to IEC 60255-22-2<br>Fast transient bursts immunity tests-conducted disturbances (4kV, 2.5 kHz ) conforming to ANSI C37.90.1<br>Immunity to radiated fields immunity tests-radiated disturbances (10 V/m, 80 MHz...1 GHz ) conforming to IEC 60255-22-3<br>Immunity to radiated fields immunity tests-radiated disturbances (35 V/m, 25 MHz...1 GHz ) conforming to ANSI C37.90.2<br>Voltage interruptions immunity tests-conducted disturbances (100 % during 100 ms ) conforming to IEC 60255-11 |
| Climatic withstand            | Continuous exposure to damp heat (in operation) : Cab : 10 days, 93 % RH, 40 °C conforming to IEC 60068-2-78<br>Continuous exposure to damp heat (in storage) : Cab : 56 days, 93 % RH, 40 °C conforming to IEC 60068-2-78<br>Continuous exposure to damp heat (in storage) : Db : 6 days, 95 % RH, 55 °C conforming to IEC 60068-2-30<br>Exposure to cold (in operation) : Ad : - 25 °C conforming to IEC 60068-2-1<br>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  
 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

## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| RoHS (date code: YYWW)           | Compliant - since 1105 - Schneider Electric declaration of conformity<br><a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold<br><a href="#">Reference not containing SVHC above the threshold</a>                |
| Product environmental profile    | Available   |
| Product end of life instructions | Available   |