## Characteristics

**I/O module MES114 - Sepam series 20, 40 - 10 inputs + 4 outputs 24...250V DC**

### Main

<table>
<thead>
<tr>
<th>Module type</th>
<th>Input/output module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range of product</td>
<td>Sepam series 20</td>
</tr>
<tr>
<td></td>
<td>Sepam series 40</td>
</tr>
<tr>
<td></td>
<td>Sepam series 48</td>
</tr>
<tr>
<td>Device short name</td>
<td>MES114</td>
</tr>
</tbody>
</table>

### Complementary

<table>
<thead>
<tr>
<th>Input/Output type</th>
<th>10 inputs + 4 outputs 24...250 V DC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logic input number</td>
<td>10 : 24...250 V, limits: 19.2...275 V DC input current: 3 mA threshold tripping voltage: 14 V enhanced</td>
</tr>
<tr>
<td>Number of outputs</td>
<td>1 control relay output(s)</td>
</tr>
<tr>
<td></td>
<td>3 indication relay output(s)</td>
</tr>
</tbody>
</table>

| Output type             | Control relay : 100...240 V AC 47.5...63 Hz continuous current: 8 A breaking capacity: 0.005 kA cos φ > 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 |

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: 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
Indication relay: 100...240 V AC 47.5...63 Hz continuous current: 2 A breaking capacity: 0.001 kA cos φ > 0.3 making capacity: < 15 A for 200 ms
Indication relay: 127 V DC continuous current: 2 A breaking capacity: 0.0005 kA L/R < 20 ms making capacity: < 15 A for 200 ms
Indication relay: 127 V DC continuous current: 2 A breaking capacity: 0.0006 kA resistive making capacity: < 15 A for 200 ms
Indication relay: 220 V DC continuous current: 2 A breaking capacity: 0.0015 kA L/R < 20 ms making capacity: < 15 A for 200 ms
Indication relay: 220 V DC continuous current: 2 A breaking capacity: 0.0003 kA resistive making capacity: < 15 A for 200 ms
Indication relay: 24 V DC continuous current: 2 A breaking capacity: 0.002 kA L/R < 20 ms making capacity: < 15 A for 200 ms
Indication relay: 24 V DC continuous current: 2 A breaking capacity: 0.002 kA resistive making capacity: < 15 A for 200 ms
Indication relay: 250 V DC continuous current: 2 A breaking capacity: 0.0002 kA resistive making capacity: < 15 A for 200 ms
Indication relay: 48 V DC continuous current: 2 A breaking capacity: 0.001 kA L/R < 20 ms making capacity: < 15 A for 200 ms
Indication relay: 48 V DC continuous current: 2 A breaking capacity: 0.001 kA resistive making capacity: < 15 A for 200 ms

Product weight 0.28 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): 30 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 mm²
Screw-type connectors 1 cable(s) 2.5 mm²
Screw-type connectors 2 cable(s) 1 mm²
Screw-type connectors 1 cable(s) 0.2...2.5 mm²
Screw-type connectors 2 cable(s) 0.2...1 mm²

Environment

Electromagnetic compatibility
1 MHz damped oscillating wave immunity tests-conducted disturbances: III (2.5 kV MC, 1 kV MD) conforming to IEC 60255-22-1
Fast transient bursts immunity tests-conducted disturbances: A or 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 magnetic fields at network frequency immunity tests-radiated disturbances: IV (30 A/m continuous)-300 A/m (13 s) conforming to IEC 61000-4-8
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 MC, 1 kV MD) conforming to IEC 61000-4-5
Conducted disturbance emission emission tests: B conforming to EN 55022
Disturbing field emission emission tests: A conforming to EN 55022
1 MHz damped oscillating wave immunity tests-conducted disturbances (2.5 kV MC and MD) conforming to ANSI C37.90.1
100 kHz damped oscillating wave immunity tests-conducted disturbances (2.5 kV MC, 1 kV MD) conforming to IEC 61000-4-12
Conducted disturbance emission emission tests conforming to IEC 60255-25
Disturbing field emission emission tests conforming to IEC 60255-25
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
Immunity to conducted RF disturbances immunity tests-conducted disturbances (10 V) conforming to IEC 60255-22-6
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 (1995)
Voltage interruptions immunity tests—conducted disturbances (100 %, 10 ms ) conforming to IEC 60255-11

Climatic withstand

Continuous exposure to damp heat (in operation) : Ca : 10 days, 93 % RH, 40 °C (104 °F) conforming to IEC 60068-2-3
Continuous exposure to damp heat (in storage) : Ca : 56 days, 93 % RH, 40 °C (104 °F) conforming to IEC 60068-2-3
Exposure to cold (in operation) : Ab : - 25 °C (- 13 °F) conforming to IEC 60068-2-1
Exposure to cold (in storage) : Ab : - 25 °C (- 13 °F) conforming to IEC 60068-2-1
Exposure to dry heat (in operation) : Bb : 70 °C (158 °F) conforming to IEC 60068-2-2
Exposure to dry heat (in storage) : Bb : 70 °C (158 °F) conforming to IEC 60068-2-2
Influence of corrosion/gaz test 2 (in operation) : C : 21 days, 75 % RH, 25 °C (- 13 °F), 0.5 ppm H2S, 1 ppm SO2 conforming to IEC 60068-2-60
Temperature variation with specified variation rate (in operation) : Nb : - 25 °C to 70 °C (- 13 °F to 158 °F) 5 °C/min (41 °F/min) conforming to IEC 60068-2-14
Salt mist (in operation) : Kb/2 conforming to IEC 60068-2-52
Influence of corrosion/gaz test 4 (in operation) : 21 days, 75 % RH, 25 °C, 0.01 ppm H2S, 0.2 ppm SO2, 0.02 ppm NO2, 0.01 ppm CI2 conforming to IEC 60068-2-60

Offer Sustainability

Sustainable offer status
Green Premium product

RoHS (date code: YYWW)
Compliant - since 0926 - Schneider Electric declaration of conformity

REACH
Reference not containing SVHC above the threshold

Product environmental profile
Available

Product end of life instructions
Available