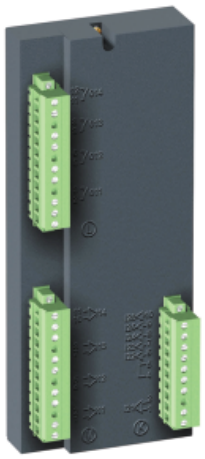
# Product data sheet
## Characteristics

# 59651
## I/O module MES114E - Sepam series 20, 40 - 10 inputs+ 4 outputs 110...125V



## Main

| | |
|---|---|
| Module type | Input/output module |
| Range of product | Sepam series 40<br>Sepam series 20<br>Sepam series 48 |
| Device short name | MES114E |

## Complementary

| | |
|---|---|
| Input/Output type | 10 inputs + 4 outputs 110...125 V |
| Logic input number | 10 : 110...125 V, limits: 88...150 V DC input current: 3 mA threshold tripping voltage: 82 V enhanced<br>10 : 110 V, limits: 88...132 V AC 47...63 Hz input current: 3 mA threshold tripping voltage: 58 V enhanced |
| Number of outputs | 1 control relay output(s)<br>3 indication relay output(s) |
| 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<br>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<br>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<br>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<br>Control relay : 127 V DC continuous current: 8 A breaking capacity: 0.0007 kA resistive making capacity: < 15 A for 200 ms<br>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<br>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<br>Control relay : 220 V DC continuous current: 8 A breaking capacity: 0.0003 kA resistive making capacity: < 15 A for 200 ms<br>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<br>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<br>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<br>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<br>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<br>Control relay : 48 V DC continuous current: 8 A breaking capacity: 0.004 kA resistive making capacity: < 15 A for 200 ms<br>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<br>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<br>Indication relay : 127 V DC continuous current: 2 A breaking capacity: 0.0006 kA resistive making capacity: < 15 A for 200 ms<br>Indication relay : 220 V DC continuous current: 2 A breaking capacity: 0.00015 kA L/R < 20 ms making capacity: < 15 A for 200 ms<br>Indication relay : 220 V DC continuous current: 2 A breaking capacity: 0.0003 kA resistive making capacity: < 15 A for 200 ms<br>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<br>Indication relay : 24 V DC continuous current: 2 A breaking capacity: 0.002 kA resistive making capacity: < 15 A for 200 ms<br>Indication relay : 250 V DC continuous current: 2 A breaking capacity: 0.0002 kA resistive making capacity: < 15 A for 200 ms<br>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<br>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<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) : 30 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 mm²<br>Screw-type connectors 1 cable(s) 2.5 mm²<br>Screw-type connectors 2 cable(s) 1 mm²<br>Screw-type connectors 1 cable(s) 0.2...2.5 mm²<br>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<br>Fast transient bursts immunity tests-conducted disturbances : A or B (4kV, 2.5 kHz/2 kV, 5 kHz ) conforming to IEC 60255-22-4<br>Fast transient bursts immunity tests-conducted disturbances : IV (4kV, 2.5 kHz ) conforming to IEC 61000-4-4<br>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<br>Immunity to radiated fields immunity tests-radiated disturbances : III (10 V/m, 80 MHz...2 GHz ) conforming to IEC 61000-4-3<br>Surges immunity tests-conducted disturbances : III (2 kV MC, 1 kV MD ) conforming to IEC 61000-4-5<br>Conducted disturbance emission emission tests : B conforming to EN 55022<br>Disturbing field emission emission tests : A conforming to EN 55022<br>1 MHz damped oscillating wave immunity tests-conducted disturbances (2.5 kV MC and MD ) conforming to ANSI C37.90.1<br>100 kHz damped oscillating wave immunity tests-conducted disturbances (2.5 kV MC, 1 kV MD ) conforming to IEC 61000-4-12<br>Conducted disturbance emission emission tests conforming to IEC 60255-25<br>Disturbing field emission emission tests conforming to IEC 60255-25<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 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<br>Immunity to radiated fields immunity tests-radiated disturbances (35 V/m, 25 MHz...1 GHz ) conforming to ANSI C37.90.2 (1995)<br>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<br>Continuous exposure to damp heat (in storage) : Ca : 56 days, 93 % RH, 40 °C (104 °F) conforming to IEC 60068-2-3<br>Exposure to cold (in operation) : Ab : - 25 °C (- 13 °F) conforming to IEC 60068-2-1<br>Exposure to cold (in storage) : Ab : - 25 °C (- 13 °F) conforming to IEC 60068-2-1<br>Exposure to dry heat (in operation) : Bb : 70 °C (158 °F) conforming to IEC 60068-2-2<br>Exposure to dry heat (in storage) : Bb : 70 °C (158 °F) conforming to IEC 60068-2-2<br>Influence of corrosion/gaz test 2 (in operation) : C : 21 days, 75 % RH, 25 °C (- 13 °F), 0.5 ppm H2S, 1 ppm S02 conforming to IEC 60068-2-60<br>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<br>Salt mist (in operation) : Kb/2 conforming to IEC 60068-2-52<br>Influence of corrosion/gaz test 4 (in operation) : 21 days, 75 % RH, 25 °C, 0.01 ppm H2S, 0.2 ppm S02, 0.02 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 0927 - Schneider Electric declaration of conformity<br>Schneider Electric declaration of conformity |
| REACh | Reference not containing SVHC above the threshold<br>Reference not containing SVHC above the threshold |
| Product environmental profile | Available<br>Product Environmental Profile |
| Product end of life instructions | Available |