



### Main

Module type	Input/output module
Range of product	Sepam series 48 Sepam series 40 Sepam series 20
Device short name	MES114F

### Complementary

Input/Output type	10 inputs + 4 outputs 220...250 V
Logic input number	10 : 220...250 V, limits: 176...275 V DC input current: 3 mA threshold tripping voltage: 154 V enhanced 10 : 220...240 V, limits: 176...264 V AC 47...63 Hz input current: 3 mA threshold tripping voltage: 120 V enhanced
Number of outputs	1 control relay output(s) 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 $\cos \phi > 0.3$ 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 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

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 : 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  
Indication relay : 100...240 V AC 47.5...63 Hz continuous current: 2 A breaking capacity: 0.001 kA  $\cos \phi > 0.3$  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: 0.00015 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 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 : 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 tests : B conforming to EN 55022 Disturbing field 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 tests conforming to IEC 60255-25 Disturbing field 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
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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	<p>Continuous exposure to damp heat (in operation) : Ca : 10 days, 93 % RH, 40 °C (104 °F) conforming to IEC 60068-2-3</p> <p>Continuous exposure to damp heat (in storage) : Ca : 56 days, 93 % RH, 40 °C (104 °F) conforming to IEC 60068-2-3</p> <p>Exposure to cold (in operation) : Ab : - 25 °C (- 13 °F) conforming to IEC 60068-2-1</p> <p>Exposure to cold (in storage) : Ab : - 25 °C (- 13 °F) conforming to IEC 60068-2-1</p> <p>Exposure to dry heat (in operation) : Bb : 70 °C (158 °F) conforming to IEC 60068-2-2</p> <p>Exposure to dry heat (in storage) : Bb : 70 °C (158 °F) conforming to IEC 60068-2-2</p> <p>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</p> <p>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</p> <p>Salt mist (in operation) : Kb/2 conforming to IEC 60068-2-52</p> <p>Influence of corrosion/gaz test 4 (in operation) : 21 days, 75 % RH, 25 °C, 0.01 ppm H2S, 0.2 ppm SO2, 0.02 ppm NO2, 0.01 ppm Cl2 conforming to IEC 60068-2-60</p>
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### Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0927 - 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 Profile</a>
Product end of life instructions	Available