Product data sheet **Characteristics**

59646 input/output module MES114 Sepam series 20,40 - 10 inputs - 4 outputs



Main

Input/Output module
Sepam series 20 Sepam series 40 Sepam series 48
MES114



Complementary

Logic input number	10: 24250 V, limits: 19.2275 V DC input current: 3 mA threshold tripping volt- age: 14 V enhanced
Number of outputs	1 control relay output(s) 3 indication relay output(s)
Output type	Control relay: 100240 V AC 47.563 Hz continuous current: 8 A breaking capacity: 0.005 kA cos f > 0.3 making capacity: < 15 A for 200 ms Control relay: 120240 V AC 47.563 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: 0.0007 kA resistive making capacity: < 15 A for 200 ms Control relay: 127 V DC continuous current: 8 A breaking capacity: 0.0001 kA L/R < 20 ms 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: 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: 0.0004 kA L/R < 40 ms making capacity: < 15 A for 200 ms Control relay: 24 V DC continuous current: 8 A breaking capacity: 0.000 kA L/R < 20 ms making capacity: < 15 A for 200 ms Control relay: 24 V DC continuous current: 8 A breaking capacity: 0.000 kA L/R < 20 ms making capacity: < 15 A for 200 ms Control relay: 24 V DC continuous current: 8 A breaking capacity: 0.0002 kA resistive making capacity: < 15 A for 200 ms Control relay: 24 V DC continuous current: 8 A breaking capacity: 0.0002 kA resistive making capacity: < 15 A for 200 ms Control relay: 24 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: 0.0002 kA L/R < 20 ms making capacity: < 15 A for 200 ms Control relay: 48 V DC continuous current: 8 A br
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 Hz150 Hz conforming to IEC 60255-21-1 Vibrations in operation (level: 2) : 1 Gn, 10 Hz150 Hz conforming to IEC 60255-21-1 Vibrations in operation (level: 2) : 2 Hz13.2 Hz, a = +/- 1 mm conforming to IEC 60068-2-6
Auxiliary connection terminal	Screw-type connectors 1 cable(s) Screw-type connectors 1 cable(s) Screw-type connectors 1 cable(s) Screw-type connectors 2 cable(s) Screw-type connectors 2 cable(s)



Environment

Electromagnetic compatibility	1 MHz damped oscillating wave immunity tests-conducted disturbances (2.5 kV MC and MD) conforming to ANSI C37.90.1 1 MHz damped oscillating wave immunity tests-conducted disturbances: III (2.5 kV MC, 1 kV MD) conforming to IEC 60255-22-1 100 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 Disturbing field emission emission tests: A conforming to EN 55022 Electrostatic discharge immunity tests-radiated disturbances (8 kV air, 4 kV con- tact) conforming to ANSI C37.90.3 Electrostatic discharge immunity tests-radiated disturbances (8 kV air, 6 kV con- tact) conforming to IEC 60255-22-2 Fast transient bursts immunity tests-conducted disturbances (4kV, 2.5 kHz) con- forming to ANSI C37.90.1 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 conducted RF disturbances immunity tests-conducted disturbances (10 V) conforming to IEC 60255-22-6 Immunity to radiated fields at network frequency immunity tests-radiated distur- bances: IV (30 A/m (continuous)-300 A/m (13 s)) conforming to IEC 61000-4-8 Immunity to radiated fields immunity tests-radiated disturbances (10 V/m, 80 MHz1 GHz) conforming to IEC 60255-22-3 Immunity to radiated fields immunity tests-radiated disturbances (35 V/m, 25 MHz1 GHz) conforming to IEC 60255-22-3 Immunity to radiated fields immunity tests-radiated disturbances: III (10 V/m, 80 MHz2 GHz) conforming to IEC 61000-4-3 Surges immunity tests-conducted disturbances: III (2 kV MC, 1 kV MD) conform- ing to IEC 61000-4-5 Voltage interruptions immunity tests-conducted disturbances (100 %, 10 ms)
Climatic withstand	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 Continuous exposure to damp heat (in operation) : Ca: 10 days, 93 % RH, 40 °C (104 °E) 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 S02 conforming to IEC 60068-2-60 Salt mist (in operation) : Kb/2 conforming to IEC 60068-2-52 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