Product data sheet
Characteristics

59712
synchro-check module MCS025 Sepam series 60, 80

Main

Range of product	Sepam series 80 Sepam series 60 Sepam series 80 NPP
Device short name	MCS025

Complementary

Number of outputs	3 relay output(s)
Output type	Relay : 24 V DC continuous current: 8 A breaking capacity: 6 A L/R < 20 ms making capacity: < 15 A for 200 ms Relay : 127 V DC continuous current: 8 A breaking capacity: 0.7 A resistive making capacity: < 15 A for 200 ms Relay : 220 V DC continuous current: 8 A breaking capacity: 0.1 A L/R < 40 ms making capacity: < 15 A for 200 ms Relay : 48 V DC continuous current: 2 A breaking capacity: 1 A L/R < 20 ms Relay : 100...240 V AC 47.5...63 Hz continuous current: 8 A breaking capacity: 5 A cos φ > 0.3 making capacity: < 15 A for 200 ms Relay : 220 V DC continuous current: 8 A breaking capacity: 0.2 A L/R < 20 ms making capacity: < 15 A for 200 ms Relay : 48 V DC continuous current: 8 A breaking capacity: 1 A L/R < 40 ms making capacity: < 15 A for 200 ms Relay : 127 V DC continuous current: 8 A breaking capacity: 0.2 A L/R < 40 ms making capacity: < 15 A for 200 ms Relay : 48 V DC continuous current: 8 A breaking capacity: 4 A resistive making capacity: < 15 A for 200 ms Relay : 24 V DC continuous current: 2 A breaking capacity: 2 A L/R < 20 ms Relay : 220 V DC continuous current: 2 A breaking capacity: 0.15 A L/R < 20 ms Relay : 100...240 V AC 47.5...63 Hz continuous current: 2 A breaking capacity: 5 A cos φ > 0.3 Relay : 24 V DC continuous current: 8 A breaking capacity: 8 A resistive making capacity: < 15 A for 200 ms Relay : 100...240 V AC 47.5...63 Hz continuous current: 8 A breaking capacity: 8 A resistive making capacity: < 15 A for 200 ms Relay : 220 V DC continuous current: 8 A breaking capacity: 0.3 A resistive making capacity: < 15 A for 200 ms Relay : 127 V DC continuous current: 2 A breaking capacity: 0.5 A L/R < 20 ms Relay : 24 V DC continuous current: 8 A breaking capacity: 4 A L/R < 40 ms making capacity: < 15 A for 200 ms

	Relay : 48 V DC continuous current: 8 A breaking capacity: 2 A L/R < 20 ms making capacity: < 15 A for 200 ms Relay : 127 V DC continuous current: 8 A breaking capacity: 0.5 A L/R < 20 ms making capacity: < 15 A for 200 ms
[Us] rated supply voltage	10...240 V AC 47.5...63 Hz tolerance: - 20 %...+ 0 % deactivated consumption: 9 VA 24...250 V DC tolerance: - 10...10 % deactivated consumption: 6 W
Supply inrush current	< 10 A for 10 ms at 24...250 V DC < 15 A at 110...240 V AC
Mounting mode	Fixed
Mounting support	Mounting plate
Height	222 mm
Width	176 mm
Depth	121 mm
Product weight	1.35 kg
Power frequency dielectric withstand	1 kV (indication output) during 1 min conforming to ANSI C37.90 1.5 kV (control output) during 1 min conforming to ANSI C37.90 2 kV during 1 min conforming to IEC 60255-5
[Uimp] rated impulse withstand voltage	5 kV (1.2/50 µs) conforming to IEC 60255-5
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) : 27 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

Environment

Standards	CSA C22.2 No 14-95 CSA C22.2 No 0.17-00 EN 50263 CSA C22.2 No 94-M91 UL 508
Product certifications	C22.2 file N° 210625 UL 508 file N° 212533 CE
Fire resistance	650 °C conforming to IEC 60695-2-11
IP degree of protection	IP20 conforming to IEC 60529 other panels IP52 conforming to IEC 60529 front panel
NEMA degree of protection	Type 12 conforming to NEMA
Immunity to microbreaks	100 ms
Electromagnetic compatibility	1 MHz damped oscillating wave immunity tests-conducted disturbances (2.5 kV CM, 1 kV MD) conforming to IEC 60255-22-1 1 MHz damped oscillating wave immunity tests-conducted disturbances (2.5 kV CM, 2.5 kV MD) conforming to ANSI C37.90.1 100 kHz damped oscillating wave immunity tests-conducted disturbances (2.5 kV CM, 1 kV MD) conforming to IEC 61000-4-12 Conducted disturbance emission emission tests conforming to IEC 60255-25 Conducted disturbance emission emission tests: A conforming to EN 55022 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 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 Fast transient bursts immunity tests-conducted disturbances: A and 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: III (10 V) conforming to IEC 60255-22-6 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 (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 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 CM, 1 kV MD) conforming to IEC 61000-4-5 Voltage interruptions immunity tests-conducted disturbances (100 % during 100 ms) conforming to IEC 60255-11
Climatic withstand	Exposure to dry heat (in operation) : Bd: 70 °C conforming to IEC 60068-2-2 Continuous exposure to damp heat (in operation) : Cab: 10 days, 93 % RH, 40 °C conforming to IEC 60068-2-78 Salt mist (in operation) : Kb/2: 6 days conforming to IEC 60068-2-52 Influence of corrosion/gaz test 2 (in operation) : 21 days, 75 % RH, 25 °C, 0.5 ppm H2S, 1 ppm S02 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 S02, 0.2 ppm NO2, 0.01 ppm CI2 conforming to IEC 60068-2-60 Temperature variation with specified variation rate (in storage) : Nb: - 25 °C to 70 °C, 5 °C/min conforming to IEC 60068-2-14 Exposure to cold (in storage) : Ab: - 25 °C conforming to IEC 60068-2-1 Exposure to dry heat (in storage) : Bb: 70 °C conforming to IEC 60068-2-2 Continuous exposure to damp heat (in storage) : Cab: 56 days, 93 % RH, 40 °C conforming to IEC 60068-2-78 Continuous exposure to damp heat (in storage) : Db: 6 days, 95 % RH, 55 °C conforming to IEC 60068-2-30 Exposure to cold: Ad: - 25 °C conforming to IEC 60068-2-1

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0943 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available Product environmental
Product end of life instructions	Available