

# Product datasheet

Specifications



## synchro-check module MCS025 Sepam series 60, 80

59712

### Main

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

Number of outputs	3 relay
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Output type	Relay: 100...240 V AC 47.5...63 Hz continuous current: 2 A breaking capacity: 5 A $\cos \varphi > 0.3$ Relay: 100...240 V AC 47.5...63 Hz continuous current: 8 A breaking capacity: 5 A $\cos \varphi > 0.3$ 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: 127 V DC continuous current: 2 A breaking capacity: 0.5 A L/R < 20 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: 127 V DC continuous current: 8 A breaking capacity: 0.5 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: 2 A breaking capacity: 0.15 A L/R < 20 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: 220 V DC continuous current: 8 A breaking capacity: 0.2 A L/R < 20 ms 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: 24 V DC continuous current: 2 A breaking capacity: 2 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: 24 V DC continuous current: 8 A breaking capacity: 6 A L/R < 20 ms making capacity: < 15 A for 200 ms Relay: 24 V DC continuous current: 8 A breaking capacity: 8 A resistive making capacity: < 15 A for 200 ms Relay: 48 V DC continuous current: 2 A breaking capacity: 1 A L/R < 20 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: 48 V DC continuous current: 8 A breaking capacity: 2 A L/R < 20 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
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[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
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Supply inrush current	< 10 A for 10 ms at 24...250 V DC < 15 A at 110...240 V AC
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Mounting mode	Fixed
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Mounting support	Mounting plate
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Height	222 mm
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Width	176 mm
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<b>Depth</b>	121 mm
<b>Net weight</b>	1.35 kg
<b>Power frequency dielectric withstand</b>	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
<b>[Uimp] rated impulse withstand voltage</b>	5 kV (1.2/50 µs) conforming to IEC 60255-5
<b>Mechanical robustness</b>	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

<b>Standards</b>	EN 50263 UL 508 CSA C22.2 No 14-95 CSA C22.2 No 0.17-00 CSA C22.2 No 94-M91
<b>Product certifications</b>	UL 508 file N° 212533 CE C22.2 file N° 210625
<b>Fire resistance</b>	650 °C conforming to IEC 60695-2-11
<b>IP degree of protection</b>	Other panels: IP20 conforming to IEC 60529 Front panel: IP52 conforming to IEC 60529
<b>NEMA degree of protection</b>	Type 12 conforming to NEMA
<b>Immunity to microbreaks</b>	100 ms

<b>Electromagnetic compatibility</b>	<p>1 MHz damped oscillating wave: (immunity tests-conducted disturbances), 2.5 kV CM, 1 kV MD, conforming to IEC 60255-22-1</p> <p>1 MHz damped oscillating wave: (immunity tests-conducted disturbances), 2.5 kV CM, 2.5 kV MD, conforming to ANSI C37.90.1</p> <p>100 kHz damped oscillating wave: (immunity tests-conducted disturbances), 2.5 kV CM, 1 kV MD, conforming to IEC 61000-4-12</p> <p>Conducted disturbance emission: (emission tests), conforming to IEC 60255-25</p> <p>Conducted disturbance emission: (emission tests), A, conforming to EN 55022</p> <p>Disturbing field emission: (emission tests), conforming to IEC 60255-25</p> <p>Disturbing field emission: (emission tests), A, conforming to EN 55022</p> <p>Electrostatic discharge: (immunity tests-radiated disturbances), 8 kV air, 4 kV contact, conforming to ANSI C37.90.3</p> <p>Electrostatic discharge: (immunity tests-radiated disturbances), 8 kV air, 6 kV contact, conforming to IEC 60255-22-2</p> <p>Fast transient bursts: (immunity tests-conducted disturbances), 4kV, 2.5 kHz, conforming to ANSI C37.90.1</p> <p>Fast transient bursts: (immunity tests-conducted disturbances), A and B, 4kV, 2.5 kHz/2 kV, 5 kHz, conforming to IEC 60255-22-4</p> <p>Fast transient bursts: (immunity tests-conducted disturbances), IV, 4kV, 2.5 kHz, conforming to IEC 61000-4-4</p> <p>Immunity to conducted RF disturbances: (immunity tests-conducted disturbances), III, 10 V, conforming to IEC 60255-22-6</p> <p>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</p> <p>Immunity to radiated fields: (immunity tests-radiated disturbances), 10 V/m, 80 MHz... 1 GHz, conforming to IEC 60255-22-3</p> <p>Immunity to radiated fields: (immunity tests-radiated disturbances), 35 V/m, 25 MHz... 1 GHz, conforming to ANSI C37.90.2</p> <p>Immunity to radiated fields: (immunity tests-radiated disturbances), III, 10 V/m, 80 MHz...2 GHz, conforming to IEC 61000-4-3</p> <p>Surges: (immunity tests-conducted disturbances), III, 2 kV CM, 1 kV MD, conforming to IEC 61000-4-5</p> <p>Voltage interruptions: (immunity tests-conducted disturbances), 100 % during 100 ms, conforming to IEC 60255-11</p>
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<b>Climatic withstand</b>	<p>Influence of corrosion/gaz test 2 (in operation) : 21 days, 75 % RH, 25 °C, 0.5 ppm H2S, 1 ppm SO2 conforming to IEC 60068-2-60</p> <p>Influence of corrosion/gaz test 4 (in operation) : 21 days, 75 % RH, 25 °C, 0.01 ppm H2S, 0.2 ppm SO2, 0.2 ppm NO2, 0.01 ppm Cl2 conforming to IEC 60068-2-60</p> <p>Continuous exposure to damp heat (in operation) : Cab: 10 days, 93 % RH, 40 °C conforming to IEC 60068-2-78</p> <p>Continuous exposure to damp heat (in storage) : Cab: 56 days, 93 % RH, 40 °C conforming to IEC 60068-2-78</p> <p>Continuous exposure to damp heat (in storage) : Db: 6 days, 95 % RH, 55 °C conforming to IEC 60068-2-30</p> <p>Exposure to cold: Ad: - 25 °C conforming to IEC 60068-2-1</p> <p>Exposure to cold (in storage) : Ab: - 25 °C conforming to IEC 60068-2-1</p> <p>Exposure to dry heat (in operation) : Bd: 70 °C conforming to IEC 60068-2-2</p> <p>Exposure to dry heat (in storage) : Bb: 70 °C conforming to IEC 60068-2-2</p> <p>Salt mist (in operation) : Kb/2: 6 days conforming to IEC 60068-2-52</p> <p>Temperature variation with specified variation rate (in storage) : Nb: - 25 °C to 70 °C, 5 °C/min conforming to IEC 60068-2-14</p>
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## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	28.400 cm
<b>Package 1 Width</b>	19.200 cm
<b>Package 1 Length</b>	35.800 cm
<b>Package 1 Weight</b>	2.038 kg
<b>Unit Type of Package 2</b>	S04
<b>Number of Units in Package 2</b>	3
<b>Package 2 Height</b>	30.000 cm
<b>Package 2 Width</b>	40.000 cm
<b>Package 2 Length</b>	60.000 cm
<b>Package 2 Weight</b>	6.944 kg

<b>Unit Type of Package 3</b>	P12
<b>Number of Units in Package 3</b>	12
<b>Package 3 Height</b>	42.500 cm
<b>Package 3 Width</b>	80.000 cm
<b>Package 3 Length</b>	120.000 cm
<b>Package 3 Weight</b>	24.972 kg

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

[Environmental Disclosure](#)

[Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard **No**

Packaging without single use plastic **No**

EU RoHS Directive **Pro-active compliance (Product out of EU RoHS legal scope)**

REACH Regulation [REACH Declaration](#)

China RoHS Regulation [China RoHS declaration](#)

## Use Again

### Repack and remanufacture

[Circularity Profile](#) [End of Life Information](#)

Take-back **No**