

# Product data sheet

Specifications



## base unit S10UD for Sepam series 20 - 24...250 V - with advanced UMI

59607

⚠ To be discontinued on: 31 December 2023

⚠ To be end-of-service on: 31 December 2030

⚠ To be discontinued

### Main

Range of product	Sepam series 20
Device short name	S10UD
User machine interface type	Advanced

### Complementary

UMI indication	Metering and diagnosis data Status of logic inputs Alarms and operating messages Protection setting Sepam parameter setting Version of Sepam and remote modules
UMI control	Alarm acknowledgement Output testing Sepam reset
Display resolution	128 x 64 pixels
Number of key	9
Local signalling	2 LEDs for Sepam operating status (front face) 9 LEDs for indication of parameters (front face)
Output type	Annunciation relay: 100...240 V AC 47.5...63 Hz continuous current: 2 A breaking capacity: 1 A cos φ > 0.3 Annunciation relay: 127 V DC continuous current: 2 A breaking capacity: 0.5 A L/R < 20 ms Annunciation relay: 220 V DC continuous current: 2 A breaking capacity: 0.15 A L/R < 20 ms Annunciation relay: 24 V DC continuous current: 2 A breaking capacity: 2 A L/R < 20 ms Annunciation relay: 48 V DC continuous current: 2 A breaking capacity: 1 A L/R < 20 ms Control 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 Control 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 Control relay: 127 V DC continuous current: 8 A breaking capacity: 0.2 A L/R < 40 ms making capacity: < 15 A for 200 ms Control relay: 127 V DC continuous current: 8 A breaking capacity: 0.5 A L/R < 20 ms making capacity: < 15 A for 200 ms Control relay: 127 V DC continuous current: 8 A breaking capacity: 0.7 A resistive making capacity: < 15 A for 200 ms Control relay: 220 V DC continuous current: 8 A breaking capacity: 0.1 A L/R < 40 ms making capacity: < 15 A for 200 ms Control relay: 220 V DC continuous current: 8 A breaking capacity: 0.2 A L/R < 20 ms making capacity: < 15 A for 200 ms Control relay: 220 V DC continuous current: 8 A breaking capacity: 0.3 A resistive making capacity: < 15 A for 200 ms Control relay: 24 V DC continuous current: 8 A breaking capacity: 4 A L/R < 40 ms making capacity: < 15 A for 200 ms Control relay: 24 V DC continuous current: 8 A breaking capacity: 6 A L/R < 20 ms making capacity: < 15 A for 200 ms Control relay: 24 V DC continuous current: 8 A breaking capacity: 8 A resistive making capacity: < 15 A for 200 ms Control relay: 48 V DC continuous current: 8 A breaking capacity: 1 A L/R < 40 ms making capacity: < 15 A for 200 ms

	Control relay: 48 V DC continuous current: 8 A breaking capacity: 2 A L/R < 20 ms making capacity: < 15 A for 200 ms Control relay: 48 V DC continuous current: 8 A breaking capacity: 4 A resistive making capacity: < 15 A for 200 ms
[Us] rated supply voltage	110/240 V AC 47.5...63 Hz tolerance: - 20...10 % deactivated consumption: < 6 VA maximum consumption: < 15 VA 24/250 V DC tolerance: - 20...10 % deactivated consumption: < 4.5 W maximum consumption: < 8 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	Plate
Height	222 mm
Width	176 mm
Depth	129 mm
Product weight	1.42 kg
Power frequency dielectric withstand	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) : 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

## Environment

Standards	EN 50263 CSA C22.2 No 0.17-00 CSA C22.2 No 94-M91 CSA C22.2 No 14-95 UL 508
Product certifications	CE UL 508 file N° 212533 C22.2 file N° 210625
Fire resistance	650 °C conforming to IEC 60695-2-11
IP degree of protection	Other panels: IP20 conforming to IEC 60529 Front panel: IP52 conforming to IEC 60529
NEMA degree of protection	Type 12 conforming to NEMA
Immunity to microbreaks	10 ms
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 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: (emission tests), conforming to IEC 60255-25 Conducted disturbance emission: (emission tests), B, 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 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

	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	Continuous exposure to damp heat (in operation) : Ca: 10 days, 93 % RH, 40 °C (104 °F) 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 SO2 conforming to IEC 60068-2-60 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 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 Salt mist (in operation) : Kb/2 conforming to IEC 60068-2-52

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	12.200 cm
Package 1 Width	27.200 cm
Package 1 Length	26.700 cm
Package 1 Weight	1.206 kg
Unit Type of Package 2	S03
Number of Units in Package 2	3
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4.105 kg
Unit Type of Package 3	P12
Number of Units in Package 3	24
Package 3 Height	50.000 cm
Package 3 Width	80.000 cm
Package 3 Length	120.000 cm
Package 3 Weight	44.840 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>

Recommended replacement(s)