



Main

Range of product	Sepam series 60
Device short name	SEP666
User machine interface type	Mimic-based

Complementary

UMI indication	Alarms and operating messages List of activated protection functions Main protection settings Phasor diagram of currents or voltages Status of logic inputs Switchgear status on the animated mimic diagram Version of Sepam and remote modules Metering and diagnosis data
UMI control	Alarm acknowledgement Device open/close order Output testing Selection of Sepam control mode Sepam reset
Display resolution	128 x 240 pixels
Number of key	14
Local signalling	2 LEDs for Sepam operating status on back part 2 LEDs for Sepam operating status on front face 9 LEDs for indication of parameters on front face
Main embedded outputs	3 control + 1 watchdog + ext
Output type	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: 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

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 : 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
Annunciation relay : 100...240 V AC 47.5...63 Hz continuous current: 2 A breaking capacity: 1 A $\cos \varphi > 0.3$
Control 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

[Us] rated supply voltage	24/250 V DC tolerance: - 20...10 % maximum consumption: < 16 W
Supply inrush current	< 10 A for 10 ms at 24/250 V DC
Battery type	Lithium 3.6 V size: 1/2 AA
Battery life	10 yr with Sepam energized 8 yr with Sepam not energized
Mounting mode	Fixed
Mounting support	Plate
Height	222 mm
Width	264 mm
Depth	89.7 mm
Product weight	4.22 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 μ s) 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 0.17-00 CSA C22.2 No 14-95 CSA C22.2 No 94-M91 EN 50263 UL 508
Product certifications	C22.2 file N° 210625 CE UL 508 file N° 212533
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	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
 Disturbing field emission emission tests : A conforming to EN 55022
 Fast transient bursts immunity tests-conducted disturbances : A and B (4kV, 2.5 kHz/2 kV, 5 kHz) conforming to IEC 60255-22-4
 Immunity to conducted RF disturbances immunity tests-conducted disturbances : III (10 V) conforming to IEC 60255-22-6
 Surges immunity tests-conducted disturbances : III (2 kV CM, 1 kV MD) conforming to IEC 61000-4-5
 Conducted disturbance emission emission tests : A conforming to EN 55022
 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
 Disturbing field emission 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 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
 Voltage interruptions immunity tests-conducted disturbances (100 % during 100 ms) conforming to IEC 60255-11

Climatic withstand	<p>Continuous exposure to damp heat (in operation) : Cab : 10 days, 93 % RH, 40 °C conforming to IEC 60068-2-78 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 (in operation) : Ad : - 25 °C conforming to IEC 60068-2-1 Exposure to cold (in storage) : Ab : - 25 °C conforming to IEC 60068-2-1 Exposure to dry heat (in operation) : Bd : 70 °C conforming to IEC 60068-2-2 Exposure to dry heat (in storage) : Bb : 70 °C conforming to IEC 60068-2-2 Salt mist (in operation) : Kb/2 : 6 days conforming to IEC 60068-2-52 Temperature variation with specified variation rate (in storage) : Nb : - 25 °C to 70 °C, 5 °C/min conforming to IEC 60068-2-14 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 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>
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Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1105 - 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 end of life instructions	Available

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