



Main

Range of product	Sepam series 10
Device short name	B41A
Relay application	Transformer Substation
Protection type	Phase overcurrent 50/51 Thermal overload protection 49RMS Earth fault/standard earth fault 50N/51N Cold load pick-up I _o CPLU 50N/51N Cold load pick-up CPLU 50/51
Control and monitoring type	Logic discrimination 68 Annunciation 30 Latching/acknowledgement 86
Metering type	Earth-fault current Peak demand currents Phase currents
Network and machine diagnosis type	Tripping context
Input output max capacity	3 outputs
Communication compatibility	Modbus RTU IEC 60870-5-103
Local signalling	LEDs fault indication front face LEDs Sepam operating status front face
Number of outputs	3 control relay
Output type	Control relay 100...240 V AC 47...63 Hz 5 A 5 kA cos φ > 0.3 30 A for 200 ms 2000 cycles Control relay 127 V DC 5 A 0.7 kA resistive 30 A for 200 ms 2000 cycles Control relay 220 V DC 5 A 0.1 kA L/R < 40 ms 30 A for 200 ms 2000 cycles Control relay 220 V DC 5 A 0.3 kA resistive 30 A for 200 ms 2000 cycles Control relay 24 V DC 5 A 4 kA resistive 30 A for 200 ms 2000 cycles Control relay 24 V DC 5 A 5 kA L/R < 40 ms 30 A for 200 ms 2000 cycles Control relay 48 V DC 5 A 1 kA L/R < 40 ms 30 A for 200 ms 2000 cycles Control relay 48 V DC 5 A 4 kA resistive 30 A for 200 ms 2000 cycles
[Us] rated supply voltage	100...120 V AC +/- 20 % 24...125 V DC +/- 20 %
Supply inrush current	< 20 A 0.1 ms
Power consumption in VA	8 VA maximum 3 VA typical

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

Mounting mode	Fixed
Mounting support	Plate

Complementary

Height	139 mm
Width	179 mm
Depth	123 mm
Product weight	1.26 kg

Environment

Standards	CSA C22.2 UL 508 EN 50263
Product certifications	UL 508 file N° 212533 C22.2 file N° 210625 CE
Fire resistance	650 °C IEC 60695-2-11
IP degree of protection	IP40 IEC 60529 rear panel IP54 IEC 60529 front panel
NEMA degree of protection	Type 12 Nema type 250
IK degree of protection	IK07 IEC 62262
Power frequency dielectric withstand	2 kV IEC 60255-5 60 s
[Uimp] rated impulse withstand voltage	5 kV IEC 60255-5 1.2/50 µs
Immunity to microbreaks	100 ms CEI 60255-11
Electromagnetic compatibility	Conducted emission tests A CISPR22 Conducted emission tests A EN 55022 Conducted RF disturbances immunity tests-conducted disturbances 10 V, 0.15...80 MHz IEC 60255-22-6 Conducted RF disturbances immunity tests-conducted disturbances 3 10 V, 0.15...80 MHz IEC 61000-4-6 Damped oscillatory wave immunity tests-conducted disturbances 2.5 kV CM and DM ANSI C37.90.1 Damped oscillatory wave immunity tests-conducted disturbances 2.5 kV DM, 1 kV DM, 100 kHz and 1 MHz IEC 60255-22-1 Damped oscillatory wave immunity tests-conducted disturbances 3 2.5 kV DM, 1 kV DM, 100 kHz and 1 MHz IEC 61000-4-18 Electrostatic discharge immunity tests-radiated disturbances 8 kV air, 6 kV contact ANSI C37.90.3 Electrostatic discharge immunity tests-radiated disturbances 8 kV air, 6 kV contact IEC 60255-22-2 Electrostatic discharge immunity tests-radiated disturbances 3 8 kV air, 6 kV contact IEC 61000-4-2 Fast transient bursts immunity tests-conducted disturbances 4 kV CM and DM, 5 kHz ANSI C37.90.1 Fast transient bursts immunity tests-conducted disturbances 4 kV CM, 5kHz IEC 60255-22-4 Fast transient bursts immunity tests-conducted disturbances 4 4 kV CM, 5kHz IEC 61000-4-4 Magnetic field at power frequency immunity tests-radiated disturbances 4 30 A/m (continuous) 100 A/m (for 1...3 s) IEC 61000-4-8 Overall tests A IEC 60255-26 Power frequency for status inputs immunity tests-conducted disturbances 300 V CM, 150 V DM IEC 60255-22-7 Power frequency for status inputs immunity tests-conducted disturbances 4 300 V CM, 150 V DM IEC 61000-4-16 Radiated emission tests A CISPR22 Radiated emission tests A EN 55022 Radiated RF fields immunity tests-radiated disturbances 10 V/m, 80...1000 MHz, 1.4...2.7 GHz IEC 60255-22-3 Radiated RF fields immunity tests-radiated disturbances 20 V/m, 80...1000 MHz ANSI C37.90.2 (2004) Radiated RF fields immunity tests-radiated disturbances 3 10 V/m, 80 MHz...2000 MHz IEC 61000-4-3 Surges immunity tests-conducted disturbances 1.2/50 µs, 10/700 µs, 2 kV CM, 1 kV DM IEC 60255-22-5 Surges immunity tests-conducted disturbances 3 1.2/50 µs, 10/700 µs, 2 kV CM, 1 kV DM IEC 61000-4-5
Mechanical robustness	Fire resistance enclosure protection 650 °C IEC 60695-2-11 Bumps de-energized 2 20 Gn for 16 ms IEC 60255-21-2 Earthquakes in operation 2 2 Gn horizontal, 1 Gn vertical IEC 60255-21-3 Front panel enclosure protection IP54 IEC 60529 Front panel enclosure protection type 12 Nema type 250 Rear panel enclosure protection IP40 IEC 60529

Shocks de-energized 2 30 Gn for 11 ms IEC 60255-21-2
 Shocks enclosure protection IK7 2 joules IEC 62262
 Shocks in operation 2 10 Gn for 11 ms IEC 60255-21-2
 Vibrations de-energized 2 2 Gn, 10...150 Hz, 20 cycle IEC 60255-21-1
 Vibrations in operation 2 1 Gn, 10...150 Hz, 1 cycle IEC 60255-21-1

Climatic withstand	Exposure to cold storage in original packaging - 40 °C (104 °F), 96 h IEC 60068-2-1 Corrosive atmosphere/2 gas test in operation Ke 21 days, 75 % RH, 25 °C (77 °F), 0.5 ppm H2S, 1 ppm SO2 IEC 60068-2-60 Exposure to cold in operation Ad - 40 °C (104 °F), 96 h IEC 60068-2-1 Exposure to damp heat in operation Cab 93 % RH, 40 °C, 56 days IEC 60068-2-78 Exposure to damp heat storage in original packaging Cab 93 % RH, 40 °C, 56 days IEC 60068-2-78 Exposure to dry heat in operation Bd 70 °C (158 °F), 96 h IEC 60068-2-2 Exposure to dry heat storage in original packaging Bd 70 °C (158 °F), 96 h IEC 60068-2-2 Salt mist in operation Kb/2 6 cycles IEC 60068-2-52 Temperature variation storage in original packaging Nb 5 °C/min at - 40...70 °C (- 40...158 °F) IEC 60068-2-14
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Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0810 - 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