Product data sheet
Characteristics

59642
RS485 interface 2 wires ACE949-2 for Sepam 20, 40, 60, 80

Main
Range of product
- Sepam series 60
- Sepam series 80
- Sepam series 40
- Sepam series 20
- Sepam series 48
- Sepam series 80 NPP
Device short name
ACE949-2

Complementary
Communication port protocol
- Modbus RTU network: E-LAN interface: RS485 - 2-wire
- Modbus RTU network: S-LAN interface: RS485 - 2-wire
Local signalling
LED for link activity (front face)
[Us] rated supply voltage
- 12 V DC tolerance: +/- 10 %
- 24 V DC tolerance: +/- 10 %
Maximum supply current
- 16 mA: receiving mode
- 40 mA: maximum in sending mode
Mounting mode
Fixed
Mounting support
Symmetrical DIN rail
Height
88 mm
Width
72 mm
Depth
30 mm
Net weight
0.1 kg
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 G, 10 Hz...150 Hz conforming to IEC 60255-21-1
- Vibrations in operation (level: 2) : 1 G, 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
Maximum cable distance between devices
- 10 Devices <180 m at 12 V DC
- 10 Devices <750 m at 24 V DC
- 20 Devices <160 m at 12 V DC

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.

Mar 7, 2020
20 Devices <450 m at 24 V DC
25 Devices <125 m at 12 V DC
25 Devices <375 m at 24 V DC
5 Devices <1000 m at 24 V DC
5 Devices <320 m at 12 V DC

Auxiliary connection terminal
Earthing terminal: screw-type connector 2.5…50 mm² <0.2 m
Earthing terminal: screw-type connector tinned copper braid 6…100 mm²

Environment

Electromagnetic compatibility
1 MHz damped oscillating wave: (immunity tests-conducted disturbances), 2.5 kV CM, 1 kV DM, conforming to IEC 60255-22-1
1 MHz damped oscillating wave: (immunity tests-conducted disturbances), 2.5 kV CM, 2.5 kV DM, conforming to ANSI C37.90.1
100 kHz damped oscillating wave: (immunity tests-conducted disturbances), 2.5 kV CM, 1 kV DM, 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, 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 (1-3 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 DM, conforming to IEC 61000-4-5
Voltage interruptions: (immunity tests-conducted disturbances), 100 % during 100 ms, conforming to IEC 60255-11

Climatic withstand
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
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) : Kb2: 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

Ambient air temperature for operation
-25…70 °C

Offer Sustainability

Sustainable offer status
Green Premium product

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

Mercury free
Yes

RoHS exemption information
Yes
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