462-819 경기도 성남시 중원구 둔촌대로 388번길 24 우림라이온스밸리3차 1106호
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Life Is On Schneider Electric

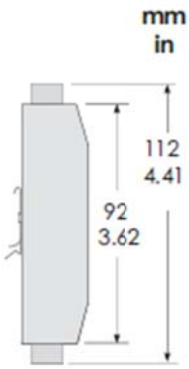
CURRENT I/O units VAM4CSE

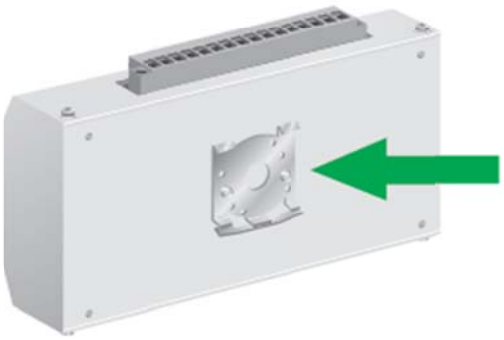
including MODULAR CABLE

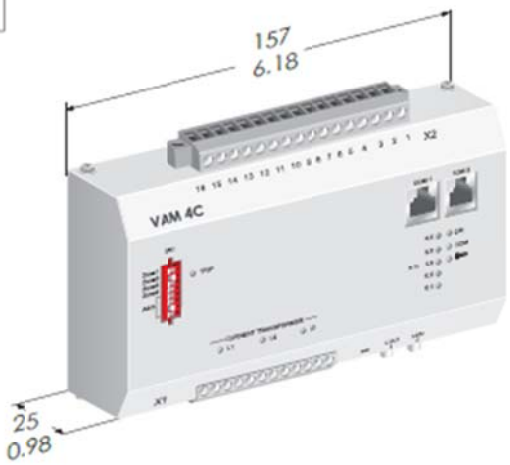
VAM4C CURRENT I/O UNIT

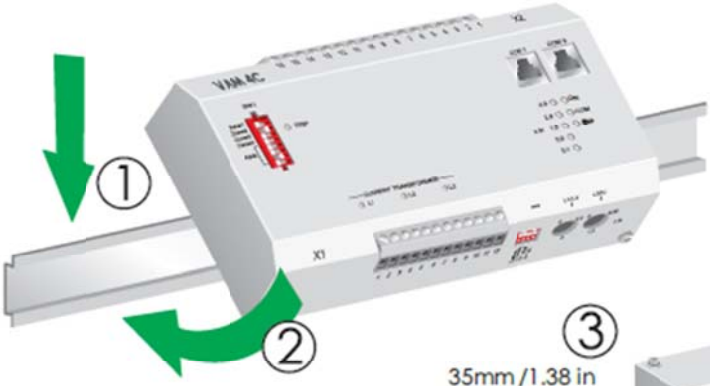
- Auxiliary supply and communication via modular cable
- 3-phase current measurement or 2-phase and zero-sequence current measurement
- Adjustable pick-up setting
- Indication of the current channel pick-up, current imbalance and trip relay activation
- One trip relay
- Two communication ports for central unit and I/O unit interconnection

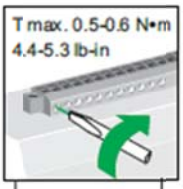
VAM 4C Din rail mounting











Technical data

■ Connections

Rated current L1 / L3 - current measuring zone - thermal withstand capability - power consumption	1 or 5 A (optional) 50/60Hz 0 – 6 A (0 – 6*I_N [I_N =1A]); 0 – 30 A (0 – 6* I_N [I_N =5A]) 300 A (for 1s) 100 A (for 10s) 20 A (continuous) <0.3 VA
Rated current L2 / I0 - current measuring zone - thermal withstand capability - power consumption	1 or 5 A (optional) 50/60Hz 0 – 6 A (0 – 6*I_N [I_N =1A]); 0 – 30 A (0 – 6* I_N [I_N =5A]) 300 A (for 1s) 100 A (for 10s) 20 A (continuous) <0.3 VA
Terminal: - single or multi-strand wire	Cross-section area of wire Maximum 4 mm^2 (11 – 12 AWG) Minimum 2.5 mm^2 (13 – 14 AWG)

■ Auxiliary power supply

Rated voltage U_{AUX}	24 V dc
Power consumption	< 1 W (in normal mode) < 1.5 W (output relays activated)
Terminal: - MSTB2.5 - 5.08 (RJ 45 when supply from central unit)	Cross-section area of wire Maximum 2.5 mm^2 (13 – 14 AWG) Minimum 1.5 mm^2 (15 – 16 AWG)

■ Digital inputs

Number of inputs	1 pcs L> in 1 pcs I> out
Internal operating voltage	24 – 48 V dc (BIO in) 24 V dc (BIO out)
Load capacity (max.)	5 mA
Terminal: - MSTB2.5 - 5.08	Cross-section area of wire Maximum 2.5 mm^2 (13 – 14 AWG) Minimum 1.5 mm^2 (15 – 16 AWG)

■ Trip contacts

Number of contacts	1 closing contact (relay T1)
Rated voltage	250 V ac/dc
Continuous withstand capacity	5 A
Make and carry for 0.5s Make and carry for 3s	30 A 15 A
Breaking capacity, dc(L/R=40 ms)	

At 48 V dc:	1 A
At 110 V dc:	0.44 A
At 220 V dc:	0.22 A
Relay material	AgNi 90/10
Terminal: - MSTB2.5 - 5.08	Cross-section area of wire Maximum 2.5 mm^2 (13 – 14 AWG) Minimum 1.5 mm^2 (15 – 16 AWG)

■ Disturbance tests

Test	Standard & Test class / level	Test value
Emission	EN 61000-6-4 / IEC 60255-26	
- Conducted	EN 55011, Class A / IEC 60255-25	0.01 – 30 MHz
- Emitted	EN 55011, Class A / IEC 60255-25	30 – 1000 MHz
Immunity	EN 61000-6-2 / IEC 60255-26	
- 1 Mhz damped oscillatory wave	IEC 60255-22-1	±2.5kVp CM, ±1.0kVp DM
- Static discharge (ESD)	EN 61000-4-2 Level 4 / IEC 60255-22-2 Class 4	8 kV contact, 15 kV air
- Emitted HF field	EN 61000-4-3 Level 3 / IEC 60255-22-3	80 - 2700 MHz, 10 V/m
- Fast transients (EFT)	EN 61000-4-4 Level 4 / IEC 60255-22-4 Class A	4 kV, 5/50 ns, 5 kHz
- Surge	EN 61000-4-5 Level 3 / IEC 60255-22-5	2 kV, 1.2/50 μ s, CM 1 kV, 1.2/50 μ s, DM
- Conducted HF field	EN 61000-4-6 Level 3 / IEC 60255-22-6	0.15 - 80 MHz, 10 Vemf
- Power-frequency magnetic field	EN 61000-4-8	300A/m (continuous), 1000A/m 1-3s
- Pulse magnetic field	EN 61000-4-9 Level 5	1000A/m, 1.2/50 μ s

■ Electrical safety tests

Test	Standard & Test class / level	Test value
- Impulse voltage withstand	EN 60255-5, Class III	5 kV, 1.2/50 ms, 0.5 J
- Dielectric test	EN 60255-5, Class III	2 kV, 50 Hz
- Insulation resistance	EN 60255-5	
- Protective bonding resistance	EN 60255-27	

■ Environmental conditions

Operating temperature range	-10 − 55℃ (14 − 131 ° F)
Transport and storage temperature range	
- VAM I/O units	-40 − 70℃ (-40 − 158 ° F)
Relative air humidity	< 75% (1 year, average) < 90% (30 days per year, condensation not allowed)
Maximum operating altitude	2000 m (6561.68 ft)

■ Casing

Housing class (IEC 60529)	IP21
Housing class (NEMA)	NEMA 1
Housing class (UL 508)	Open type
Dimensions (W x H x D)	157 x 92 x 25 mm / 6.18 x 3.62 x 0.98 in
Material	1 mm (0.039 in) steel plate
Weight	0.52 kg (1.148 lb)
Colour code	RAL 7032 (housing) / RAL 70035 (back plate)

■ Communication Modular cable

Type	RJ45, Cat6 S/FTP ,Direct Connection
Cable Length	10 m(VX001-10)

Order Information

Order code	Description	Note
VAM 4C	Current I/O unit (VAMP221 and 321)	3 current inputs, 1 trip relay