

10 Technical data

10.1 VAMP 321

Auxiliary voltage

Vs	90...265 V ac/dc 110/120/220/240 V ac 110/125/220 V dc or 18...48 V dc 24/48 V dc
Power consumption (order code –ABAAA-AAAA-AA) Power consumption increases when more I/O cards or optional I/O or communication cards are used.	20 W (internal) 50 W (output 24 V dc)

Measuring circuits

Rated current I_N	5 A (configurable for CT secondaries 1 – 10 A)
- Current measuring range	0...250 A
- Thermal withstand	20 A (continuously)
	100 A (for 10 s)
	500 A (for 1 s)
- Burden	< 0.2 VA
Rated current I_0	5 A / 1 A (optionally 1 A / 0.2 A)
- Current measuring range	0...50 A / 10 A
- Thermal withstand	4 x I_0 (continuously)
	20 x I_0 (for 10 s)
	100 x I_0 (for 1 s)
- Burden	< 0.2 VA
Rated voltage U_N	100 V (configurable for VT secondaries 50 – 120 V)
- Voltage measuring range	0 - 175 V
- Continuous voltage withstand	250 V
- Burden	< 0.5 VA
Rated frequency f_N	45 - 65 Hz
Terminal block:	Maximum wire dimension:
- Solid or stranded wire	4 mm ² (10-12 AWG)

Heavy duty trip contact, T1

Number of contacts	1
Rated voltage	250 V ac/dc
Continuous carry	5 A
Minimum making current	100 mA @ 24 Vdc
Make and carry, 0.5 s	30 A
Make and carry, 3s	15 A
Breaking capacity, DC (L/R=40ms)	
at 48 V dc:	5 A
at 110 V dc:	3 A
at 220 V dc	1 A
Contact material	AgNi 90/10
Terminal block:	Maximum wire dimension:
- Phoenix MVSTBW or equivalent	2.5 mm ² (13-14 AWG)

Trip contacts, T2, T3...

Number of contacts	Depends on the ordering code.
Rated voltage	250 V ac/dc
Continuous carry	5 A
Minimum making current	100 mA @ 24 Vdc
Make and carry, 0.5 s	30 A
Make and carry, 3s	15 A
Breaking capacity, DC (L/R=40ms)	
at 48 V dc:	1,15 A
at 110 V dc:	0,5 A
at 220 V dc	0,25 A
Contact material	AgNi 90/10
Terminal block:	Maximum wire dimension:
- Phoenix MVSTBW or equivalent	2.5 mm ² (13-14 AWG)

Trip contacts, HSO

Number of contacts	Optionally 2 pcs.
Rated voltage	250 V ac/dc
Continuous carry	5 A
Minimum making current	-
Make and carry, 0.5 s	30 A
Make and carry, 3s	15 A
Breaking capacity, DC (L/R=40ms)	
at 48 V dc:	5 A
at 110 V dc:	3 A
at 220 V dc:	1 A
Contact material	IGBT
Terminal block: - Phoenix MVSTBW or equivalent	Maximum wire dimension: 2.5 mm ² (13-14 AWG)

Alarm contacts

Number of contacts:	1
Rated voltage	250 V ac/dc
Continuous carry	5 A
Minimum making current	100 mA @ 24 V ac/dc
Breaking capacity, DC (L/R=40ms)	
at 48 V dc:	1.15 A
at 110 V dc:	0.5 A
at 220 V dc	0.25 A
Contact material	AgNi 0.15 gold plated
Terminal block - Phoenix MVSTBW or equivalent	Maximum wire dimension 2.5 mm ² (13-14 AWG)

BIO inputs/outputs, option B

Rated output voltage	+30 V DC
Rated input voltage	+18...265 V dc
Rated current (BO)	20 mA
Rated current (BI)	5 mA
BI line (IN)	3 pcs
BO lines (OUT)	3 pcs

Arc I/O bus (RJ-45)

Multi drop	Max 16 I/O units and 3 main units
Supply to I/O units	Isolated 24 V dc
Arc RS485 communication (master-slave)	RS-485 information/self-supervision
Arc I/O communication	4 zone ARC and 1 zone OC line

Arc sensor inputs

Number of inputs	Depends on the ordering code
Supply to sensor	Isolated 12 V dc