

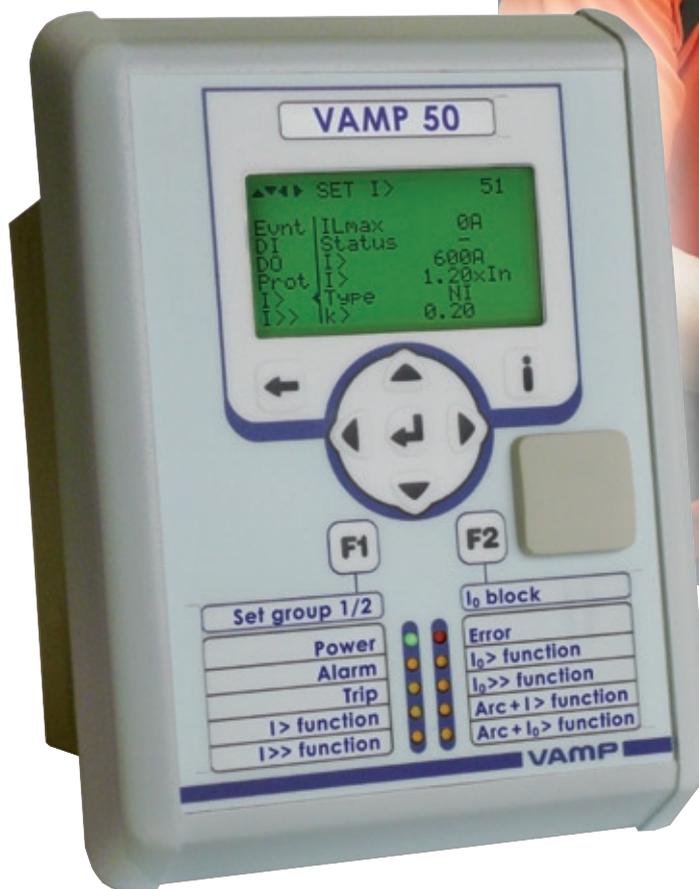
VAMP 50

Overcurrent and Earth Fault Relay

Comprehensive user-friendly protection

Ultra-fast arc flash protection

Native IEC 61850 support



Re-vamp your protection

VAMP 50

Valued features

- Circuit breaker control
- Event handling and fault registration
- All data in non-volatile memory
- Easy to use: flexible output and blocking matrix
- Local USB connectivity
- Flexible communication and I/O option concept



Main technical data

Auxiliary voltage, Uaux	40...265 V ac / dc (optionally 18...36Vdc)
Rated phase current In	1A or 5A
- current measuring range	0...50 x In
Rated neutral current Ion	1A or 5A (optionally 0,2 A/1 A)
- current measuring range	0...10 x Io
Thermal Withstand	4 x In (continuous), 100 x In (for 1 s)
Rate frequency fn	50 / 60 Hz (45...65 Hz)
Digital inputs (external voltage)	2 pcs
- external voltage range	18...265 V dc
Trip contacts	4 pcs
Control contacts	2 pcs

Protection stages

Overcurrent protection

Overcurrent stage	I>	50 / 51
Overcurrent stage	I>>	50 / 51
Overcurrent stage	I>>>	50 / 51
Unbalance protection	I ₂ / I ₁	46
Thermal overload stage	T>	49

Residual overcurrent protection

Earth fault stage	I _o >	50N / 51N
Earth fault stage	I _o >>	50N / 51N
Earth fault stage	I _o >>>	50N / 51N
Earth fault stage	I _o >>>>	50N / 51N

Arc protection (option)

Arc protection stage	ArcI>	51L>
Arc protection stage	Arc I _o >	51NL>

Other

Disturbance recorder	All analogue channels and binary inputs / outputs
Circuit breaker failure protection	CBFP 50BF
Trip circuit supervision	TCS
Inrush and cold load detection	I _{r2} > 68

Transducer

mA output for any relevant signals (option)

Measurements

Phase currents	IL ₁ , IL ₂ , IL ₃ , IL
Residual current	I _o (A)
Current unbalance	I ₂ /I ₁
Harmonics from phase currents: THD, harmonics 2nd to 15th by phase	
Current angle diagram	

Communication protocols

IEC 61850
IEC 60 870-5-103
IEC 60 870-5-101
Transparent TCP/IP
Modbus TCP
Modbus RTU
Profibus DP
SPA
DNP 3.0

Setting and configuration tool

Vampset

Tests and environment

EMC emission tests:	EN 55011, IEC 60255-25
EMC immunity tests:	IEC 60255-11, EN 61000-4-11
	IEC 60255-22-1, IEC 60255-22-2
	EN 61000-4-2, IEC 60255-22-3
	EN 61000-4-3, IEC 60255-22-4
	EN 61000-4-4, IEC 60255-22-5
	EN 61000-4-5, IEC 60255-22-6
	EN 61000-4-6, IEC 60255-22-7
	EN 61000-4-8, EN 61000-4-9
Environmental tests:	IEC 60068-2-1 Ad
	IEC 60068-2-2 Bd
	IEC 60068-2-1 Ab
	IEC 60068-2-2 Bb
	IEC 60068-2-30 Db
Mechanical tests:	IEC 60255-21-1
	IEC 60255-21-2
	IEC 60255-21-3
Operating temperature	-10...+65° C
Relative humidity	<95 %, no condensation allowed
Degree of protection (IEC 60529)	IP54
Weight	2,0 kg
Dimension (w x h x d)	128 x 170 x 190 mm

Vamp Ltd
P.O.Box 810
FI-65101 VAASA
Finland

Visiting address:
Vaasa Airport Park
Yrittäjänkatu 15
Vaasa, Finland

Tel: +358 20 753 3200
Fax: +358 20 753 3205
Email: vamp@vamp.fi
http://www.vamp.fi



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