

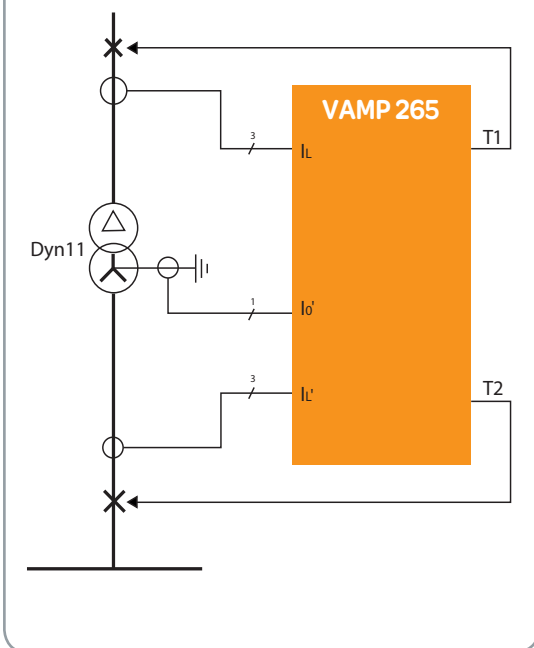
VAMP 265

Differential protection relay



Vamp protection relays are used for selective protection of subtransmission lines, medium voltage overhead and cable feeders, motor feeders, transformer feeders, capacitor banks, generators, reactors and busbars in power system distribution substations, power plants, industrial power systems, and marine and offshore installations. In addition to a comprehensive range of standard protection functions, the Vamp series also offers bay control, measurements, primary circuit monitoring and communication functionality.

TYPICAL APPLICATION



The optional integrated arc flash protection provides new dimension to protection scheme

MAIN CHARACTERISTICS

- Optimized for transformers
- High stability against through faults
- 2nd and 5th harmonic blocking
- Numerical CT ratio correction
- Selectable connection groups
- Disturbance recorder
- Optionally arc flash sensor interface for high-speed trip in case of cable termination faults
- Various communication protocols including SPA Bus, Profibus, Modbus, Modbus TCP, IEC 61850, IEC 60870-5-101, IEC 60 870-5-103, TCP/IP, DeviceNet, DNP 3.0
- VAMPSET, a user-friendly, free-of-charge relay management software for setting parameters and configuring.

Main technical data / Vamp 265

Auxiliary voltage, Uaux	40...265 V ac / dc (optionally 18...36 Vdc)
Rated phase current In	1A or 5A
- current measuring range	0...50 x In
Rated neutral current Ion	1A or 5A
- current measuring range	0...5 x In
Thermal Withstand	4 x In (continuous), 100 x In (for 1 s)
Rated frequency fn	45...65 Hz
- frequency measuring range	16...75 Hz
Digital inputs (wetting voltage)	6 pcs
- internal operating voltage	+48 V dc
Trip / control contacts	2 pcs
Alarm contacts	5 pcs
- internal operating voltage	+48 V dc
Trip contacts	2 pcs
Alarm contacts	5 pcs

Tests and environment	
Emission	EN 55022
Immunity	IEC 60255-22-1, IEC 60255-11, EN 61000-4-6, EN 61000-4-5, EN6100-4-4, EN 61000-4-3, EN6100-4-2
Insulation test	IEC 60255-5
Surge voltage	IEC 60255-5
Vibration shock	IEC 60255-21-1
Operating temperature	-10...+55° C
Relative humidity	<95 %, no condensation allowed
Degree of protection (IEC 60529)	IP30, flush mounted, optionally IP54
Weight	4,2 kg
Dimension (w x h x d)	209 x 155 x 225 mm

Protection stages	
Overcurrent protection stages	
Differential overcurrent stages	DI >, DI >> 87
Overcurrent stages	I >, I' >, I >>, I' >> 50 / 51
Current unbalance stages	I2 >, I'2 > 46
Thermal overload protection	T > 49
Magnetising inrush	I _{r2} > 68F2
Transformer overexcitation	I _{r5} > 68F5

Earth-fault protection stages	
Earth fault stages	Io >, Io >>, Io >>>, Io >>>> 50N / 51N
Restricted earth fault	REF 50N / 51N

Programmable stage	
Programmable stage	Prg1...8

Arc protection (option)	
Arc protection stages	Arc I >, Arc I' > 50ARC
Arc protection stages	Arc Io1 >, Arc Io2 > 50NARC

Other	
Disturbance recorder	All analogue channels and binary inputs / outputs
Phase unbalance	I'2 > 46
Circuit breaker failure protection	CBFP 50BF
Trip circuit supervision	TCS
Latched trip	86

Measurements	
Currents	IL1, IL2, IL3, L1 angle, L2 angle, L3 angle
	I'L1, I'L2, I'L3, L'1 angle, L'2 angle, L'3 angle
Winding current	IL1, IL2, IL3, I'L1, I'L2, I'L3, IL1w, IL2w, IL3w, I'L1w, I'L2w, I'L3w
Differential currents	dL1, dL2, dL3, DL1f, DL2 f, DL3 f
Residual current	Io (%)
Current diagram ⁽¹⁾	
- winding currents	IL1, IL2, IL3, I'L1, I'L2, I'L3
- differential currents	DIL1, DIL2, DIL3
Harmonics	IL1, IL2, IL3, I'L1, I'L2, I'L3

Note: 1) with VAMPSET software

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

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