

VAMP 265

DIFFERENTIAL PROTECTION RELAY



- Suitable for generators, transformers and motors
- High stability against through faults
- 2nd harmonic blocking
- Numerical CT ratio correction
- Selectable connection groups
- Disturbance recorder
- 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

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	
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	
Weight	4,2 kg	
Dimension (w x h x d)	209 x 155 x 225 mm	
Protection stages		
Overcurrent protection stages		
Differential overcurrent stages	$\Delta I >, \Delta I >>$	87
Overcurrent stages	$I >, I' >, I >>, I' >>$	50 / 51
Current unbalance stages	$I_2 >, I'_2 >$	46
Thermal overload protection	$T >$	49
Earth-fault protection stages		
Earth fault stages	$I_0 >, I_0 >>, I_0 >>>, I_0 >>>>$	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	$Arc I_{01} >, Arc I_{02} >$	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	
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, $\Delta L1\phi$, $\Delta L2\phi$, $\Delta L3\phi$	
Residual current	I_0 (%)	
Current diagram (1		
- winding currents	IL1, IL2, IL3, I'L1, I'L2, I'L3	
- differential currents	$\Delta IL1$, $\Delta IL2$, $\Delta IL3$	
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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