

VAMP 255

FEEDER MANAGER TERMINAL



- Complete feeder management
- Full range of protection-, measuring-, control-, alarming and monitoring functions
- Feeder level interlocking logic
- Configurable mimic
- Supports local and remote control
- Disturbance recorder
- Various communication protocols including TCP/IP

Main technical data/ VAMP 255

Auxiliary voltage, Uaux	40...265 V ac / dc (optionally 18...36Vdc)	Residual overvoltage protection		
Rated phase current In	1A or 5A	Residual voltage stages	U _o >	59N
- current measuring range	0...50 x In	Residual voltage stages	U _o >>	59N
Rated neutral current I _{on}	1A	Voltage protection		
- current measuring range	0...10 x I _{on}	Overvoltage stage	U>	59
Rated neutral current I _{o2n}	5A	Overvoltage stage	U>>	59
- current measuring range	0...10 x I _{o2n}	Overvoltage stage	U>>>	59
Thermal Withstand	4 x In (continuous), 100 x In (for 1 s)	Undervoltage stage	U<	27
Rated voltage Un	50 – 120 V (configurable)	Undervoltage stage	U<<	27
- voltage measuring range	0 – 175 V (100 / 110 V)	Undervoltage stage	U<<<	27
Voltage withstand (continuous)	250 V	Frequency protection stages		
Rate frequency f _n	45...65 Hz	Over/ underfrequency stage	f><	81H/L
- frequency measuring range	16...75 Hz	Over/ underfrequency stage	f>><<	81H/L
Digital inputs (wetting voltage)	6 pcs	Underfrequency stage	f<	81L
- internal operating voltage	+48 V dc	Underfrequency stage	f<<	81L
Digital inputs (external voltage)	12 pcs	Auto-reclosure function		
- external voltage range	18...265 V dc	AR function	0 ----> 1	79
Trip / control contacts	4 pcs	- five (5) shots		
Alarm contacts	5 pcs	Second harmonic stage		
Tests and environment		Inrush current detector		68
Emission	EN 55022	Arc protection (option)		
Immunity	IEC 60255-22-1, IEC 60255-11, EN 61000-4-6, EN 61000-4-5, EN 6100-4-4, EN 61000-4-3, EN 6100-4-2	Arc protection stage	ArcI>	51L>
Insulation test	IEC 60255-5	Arc protection stage	Arc I _Q >	51NL>
Surge voltage	IEC 60255-5	Arc protection stage	Arc I _{Q2} >	51NL>
Vibration shock	IEC 60255-21-1	Other		
Operating temperature	10...+55° C	Disturbance recorder		All analogue channels and binary inputs / outputs
Relative humidity	<95 %, no condensation allowed	Circuit breaker failure protection		CBFP 50BF
Degree of protection (IEC 60529)	IP54	Trip circuit supervision		TCS
Weight	4,2 kg	Voltage sag and swell		
Dimension (w x h x d)	209 x 155 x 225 mm	Distance to short circuit fault		
Protection stages		Transducer		Four mA outputs for any relevant signals (option)
Overcurrent protection		Measurements		
Directional /	I _{dir} > / I>	Phase currents	IL1, IL2, IL3, IL	
non-directional overcurrent stage	67 / 50 / 51	Residual current	I ₀ (A)	
Directional /	I _{dir} >> / I>>	Current unbalance	I ₂ /I ₁	
non-directional overcurrent stage	67 / 50 / 51	Phase and line voltages	U ₁₂ , U ₂₃ , U ₃₁ , U _{L1} , U _{L2} , U _{L3}	
Directional /	I _{dir} >>> / I>>>	Symmetrical voltages	U ₀ , U ₁ , U ₂ , U ₂ /U ₁	
non-directional overcurrent stage	67 / 50 / 51	Harmonics from phase currents:		
Directional /	I _{dir} >>>> / I>>>>	THD, harmonics 2 nd to 15 th by phase		
non-directional overcurrent stage	67 / 50 / 51	Harmonics from voltages:		
Non-directional overcurrent stage	I> 50 / 51	THD of voltage, harmonics 2 nd to 15 th by phase		
Non-directional overcurrent stage	I>> 50 / 51	Frequency	f	
Non-directional overcurrent stage	I>>> 50 / 51	Power	P, Q, S	
Unbalance protection	I ₂ > 46	Energy	E+, E-, E _q +, E _q -	
Thermal overload stage	T> 49	Power factor	PF	
Residual overcurrent protection		Short-circuit fault reactance	X _{fault}	
Directional /		Voltage and current angle diagram ⁽¹⁾		
non-directional earth fault stage	I _{op} > 67N	Note: ⁽¹⁾ with VAMPSET software		
Directional /		Communication protocols		
non-directional earth fault stage	I _{op} >> 67N	IEC 60 870-5-103		
Non-directional earth fault stage	I _o > 50N / 51N	Transparent TCP/IP		
Non-directional earth fault stage	I _o >> 50N / 51N	Modbus TCP		
Non-directional earth fault stage	I _{o2} > 50N / 51N	Modbus RTU		
Non-directional earth fault stage	I _{o2} >> 50N / 51N	Profibus DP		
		SPA		

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