

# VAMP 150

## MOTOR PROTECTION RELAY



- Easy to use: flexible output and blocking matrix
- Three phase AC-motor protection
- Motor start register
- Event handling and fault registration
- Programmable mAoutput
- Disturbance recorder
- Non-volatile memory
- Local and remote communication
- Various communication protocols including SPA, Profibus, Modbus, Modbus TCP, IEC 60 870-5-103, TCP/IP



## Main technical data/ VAMP 150

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 input	1 pc	
- external operating voltage	18...265 V ac / dc	
<b>Tests and environment</b>		
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)	IP54, flush mounted	
Weight	2,3 kg	
Dimension (w x h x d)	99 x 155 x 225 mm	
<b>Protection stages</b>		
<b>Overcurrent protection</b>		
Overcurrent stage	I>	50/51
Overcurrent stage	I>>	50/51
Overcurrent stage	I>>>	50/51
Loss of load / Undercurrent stage	I<	37
Protection unbalance	I2>	46
Phase sequence	I2>>	46
Thermal overload stage	T>	49
Frequent starts supervision	N>	66
Stall protection	Ist>	48
<b>Residual current protection</b>		
Residual current stage	Io>	50N/51N
Residual current stage	Io>>	50N/51N
<b>Arc protection (option)</b>		
Arc protection stage	ArcI>	51L>
Arc protection stage	Arc Io>	51NL>
<b>Other</b>		
Disturbance recorder (DR)	All analogue channels and binary inputs/outputs	
Circuit breaker failure protection	CBFP	50BF
Trip circuit supervision	TCS	
<b>Measurements</b>		
Phase currents	IL1, IL2, IL3, IL	
Residual current	Io (A), Io (%)	
Current unbalance	I2/I1	
Current unbalance	I2/Imot	
Frequency	f	
Temperature raise of stator	%	
Current diagram	(1)	
Note: <sup>(1)</sup> with VAMPSET software		
<b>Transducer</b>	One mA output for any relevant signals	
<b>Communication protocols</b>		
	IEC 60 870-5-103	
	Transparent TCP/IP	
	Modbus TCP	
	Modbus RTU	
	Profibus DP	
	SPA	

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