



Germanischer Lloyd

# Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. **44 359 - 07 HH**

Company **VAMP Ltd.  
P.O. Box 810  
65101 Vaasa, FINLAND**

Product Description **Feeder, Motor and Generator Protection Relay  
VAMP 200-series**

Type **VAMP 210, VAMP 230, VAMP 245, VAMP 255, VAMP 260, VAMP 265**

Environmental Category **C, EMC 2**

Technical Data /  
Range of Application

Rated auxiliary voltage	18...36 V DV or 40 ... 240 V AC/DC
Power consumption	< 15 W
Rated frequency	45 - 65 Hz
Degree of protection	IP52
Measuring circuits	
Rated current In	configurable for CT secondaries 1 - 10 A
Rated Voltage Un	configurable for VT secondaries 50 - 120(240*)V
Current measuring range	0 ... 250 A, Burden < 0.2 VA
Residual current meas. range	0 ...2, 0 ... 10, 0 ... 50, Burden < 0.2 VA
Voltage measuring range	0 ... 160(265*) V, Burden < 0.5 VA
Frequency measuring range	16 - 75 Hz
Digital inputs / outputs	
No. of inputs	6(12) Un 48 (18...265**) V DC
No. of trip contacts	2 - 4
No. of alarm contacts	5

\* Values (..) VAMP 260, \*\* Values (..) VAMP 255

Test Standard **Regulations for the Performance of Type Tests Edition 2003, EMC 2  
IEC 60255-5(200), -6(1988),-11(1979),-22-1(1988),-22-2(1996)**

Documents **Test reports Kema 07-1303(2007-09-14)  
Kema 08-1203(2008-02-18)  
Nemko 96545LR (2007-11-14),**

Remarks **None**

Valid until **2013-03-02**

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File No. I.L.02

Hamburg, 2008-03-03

**Germanischer Lloyd**

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Thomas Reimer



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System may provide the following functions:

-According to ANSI:

ANSI no.		VAMP210	VAMP230	VAMP245	VAMP255	VAMP265
21	Under-impedance protection	X				
24	Overexcitation protection	X				
27 / 60	Undervoltage protection	X	X		X	
32	Reverse Power and under power protection	X				
37	Loss of load / under current		X	X	X	
40	Underexcitation protection	X				
46	Phase unbalance	X	X	X	X	X
47	Phase sequence / reversal		X	X	X	
48	Stall protection		X	X	X	
49	Thermal overload	X	X	X	X	X
50/51	Overcurrent protection	X	X	X	X	X
50N/51N	Non directional earth fault protection	X	X	X	X	X
50BF	Circuit failure protection	X	X	X	X	X
51V	Voltage restrained or controlled overcurrent	X				
59	Overvoltage	X	X		X	
59N	Residual Overvoltage protection		X	X	X	
64F3	100% stator earth fault protection	X				
66	Frequent start protection		X	X	X	
67	Directional overcurrent protection		X		X	
67N	Directional earth fault	X	X	X	X	
68	Second harmonic stage / inrush		X	X	X	
79	Auto reclosing		X	X	X	
81H	Overfrequency protection	X	X		X	
81L	Underfrequency protection	X	X		X	
81R	Rate of change of frequency	X				
87	Differential protection					X

VAMP 260 Power monitoring unit

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