Mors Smitt A Wabtec Company



XM-17M-VA400LN - Voltage monitoringDatasheetrelay, 1 C/O, 8 A



Description

The XM-17M-VA400LN relay is suitable for 3-phase +N applications for the monitoring of phase present, phase sequence and under and overvoltage. The relay can be set to undervoltage and overvoltage independently.

Via the potentiometers a overvoltage between 242 V and 288 can be set. The undervoltage is adjustable between 173 V and 219 V. In case the voltage exceeds the set overvoltage or drops below the set undervoltage the relay will switch. In case a phase failure occurs or the phase sequence changes the relay will also switch. The red LED will indicate if the relay is in fault state.

Application

Phase fail, phase sequence and voltage monitoring relay, suitable for 3-phase +N circuits for general purpose applications.

Features

- Universal monitoring relay
- Monitors 3-phase +N
- Monitored voltage serves also as supply voltage
- Umax and Umin can be monitored independently
- Voltage Umin adjusted as % of Umax
- Adjustable time delay 0.1 10 s
- 1 C/O contact 8 A / AC1
- 35 mm rail mounting
- Output status by LED indicator
- Modular housing, 1 module

Benefits

- Rated current 8 A / AC1
- Long term availability
- 17.6 mm wide
- No maintenance

Industry compliancy

All our relays and accessories are designed according to regulations:

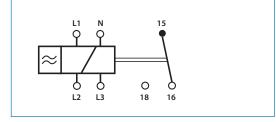
- EN 60255-6
- EN 61010-1
- CE





XM-17M-VA400LN Technical specifications

Connection diagram



Time range

Time delay T1	Max. 500 ms
Time delay T2	Adjustable 0.1 - 10 s

Output

Number of contacts	1x change-over / SPDT (AgNi/silver alloy)	
Rated current	8 A / AC1	
Breaking capacity	2500 VA / AC1, 240 W / DC	
Inrush current	10 A	
Switching voltage	250 V AC1 / 24 V DC	
Min. breaking capacity DC	500 mW	
Output indication	Red LED	
Mechanical life	10 x 10 ⁶ operations	
Electrical life (AC1)	$1 \ge 10^4$ operations	

Supply and measuring

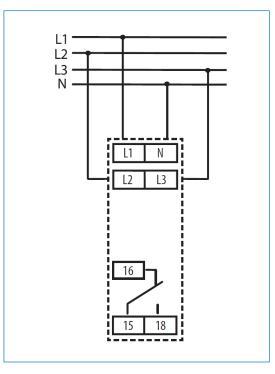
Supply and measuring terminals	L1, L2, L3, N
Supply terminal	L1, N
Supply / measured voltage	3 x 400 V / 230 50 Hz
Consumption	2 VA
Upper level (U _{max})	105 - 125 Un
Bottom level (Umin)	75 - 95 % Un
Max. permanent overload	3 x 265 VAC
Peak overload	3 x 288 VAC
Hysteresis	5%





XM-17M-VA400LN Technical specifications

Connection



Environmental conditions

Operating temperature	-20 +55 °C	
Storage temperature	-30 +70 °C	
Electrical strength	4 kV (supply - output)	
Operating position	Any	
Mounting	35 mm rail EN 60715	
Protection degree	IP40 front panel, IP10 terminals	
Overvoltage category III		
Pollution degree 2		
Max. cable size mm ² Solid wire max. 2 x 2.5 or 1 x 4 mm ²		
	With sleeve max. 1 x 2.5 or 2 x 1.5 mm^2	

Mechanical data

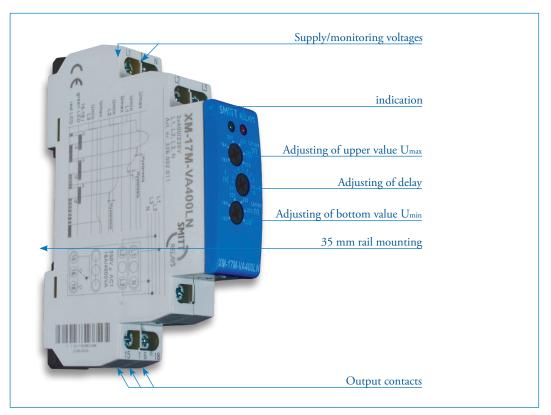
Dimensions (d, w, h)	90 x 17.6 x 64 mm
Weight	67 g
Standard	EN 60255-6, EN 61010-1



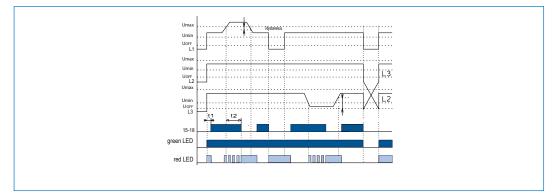


XM-17M-VA400LN Technical specifications

Design



Functions







XM-17M-VA400LN Ordering codes

Art. no.	Туре	Function	Contacts	Voltage range
326001027	XM-17M-IA25U	AC 1-phase current monitoring	1 C/O	230 VAC 50/60 Hz
326002003	XM-17M-M400L	AC 3-phase voltage monitoring	1 C/O	3x 400 VAC 50 Hz
326002004	XM-17M-M400LN	AC 3-phase + N voltage monitoring	1 C/O	3x 400 VAC / 230 VAC 50 Hz
326002000	XM-17M-VA230	AC 1-phase voltage monitoring	1 C/O	48-276 VAC 50 Hz
326002002	XM-17M-2XVA230	AC 1-phase voltage monitoring	2x 1 C/O	48-276 VAC 50 Hz
326002011	XM-17M-VA400LN	AC 3-phase + N voltage monitoring	1 C/O	3x 400 VAC / 230 VAC 50 Hz
326002001	XM-17M-VD24	DC 1-phase voltage monitoring	1 C/O	6-30 VDC
326002006	XM-52M-M400L	AC 3-phase complete monitoring	2 C/O	230 VAC / 400 VAC 50/60 Hz
326002007	XM-52M-M400LN	AC 3-phase + N voltage monitoring	2 C/O	230 VAC / 400 VAC 50/60 Hz
326002005	XM-52M-VA500	AC/DC 1-phase voltage monitoring	2 C/O	10-500 VAC/DC 50 Hz











Mors Smitt France SAS

Tour Rosny 2, Avenue du Général de Gaulle, F - 93118 Rosny-sous-Bois Cedex, FRANCE T +33 (0)1 4812 1440, F +33 (0)1 4855 9001 E sales.msf@wabtec.com

Mors Smitt Asia Ltd.

29/F., Fun Towers, 35 Hung To Road Kwun Tong, Kowloon, HONG KONG SAR T +852 2343 5555, F +852 2343 6555 E sales.msa@wabtec.com

Mors Smitt B.V.

Vrieslantlaan 6, 3526 AA Utrecht, NETHERLANDS T +31 (0)30 288 1311 E sales.msbv@wabtec.com

Mors Smitt Technologies Inc.

1010 Johnson Drive, Buffalo Grove, IL 60089-6918, USA T +1 847 777 6497, F +1 847 520 2222 E salesmst@wabtec.com

Mors Smitt UK Ltd.

Graycar Business Park, Barton under Needwood, Burton on Trent, Staffordshire, DE13 8EN, UK T +44 (0)1283 722650 F +44 (0)1283 722651 E sales.msuk@wabtec.com

RMS Mors Smitt

6 Anzed Court, Mulgrave, VIC 3170, AUSTRALIA T +61 (0)3 8544 1200 F +61 (0)3 8544 1201 E sales.rms@wabtec.com



www.morssmitt.com

(c) Copyright 2016

All rights reserved. Nothing from this edition may be multiplied, or made public in any form or manner, either electronically, mechanically, by photocopying, recording, or in any manner, without prior written consent from Mors Smitt. This also applies to accompanying drawings and diagrams. Due to a policy of continuous development Mors Smitt reserves the right to alter the equipment specification and description outlined in this datasheet without prior notice and no part of this publication shall be deemed to be part of any contract for the equipment unless specifically referred to as an inclusion within such contract. Mors Smitt does not warrant that any of the information contained herein is complete, accurate, free from potential errors, or fit for any particular purpose. Mors Smitt does not accept any responsibility arising from any party's use of the information in this document.