



Relay Extension Module

PMM-391 PLUS

The PMM-391 PLUS is a compact relay extension module for the PMM-300P, adding up to 6 software-configurable relay outputs with NO/COM/NC contacts and per-relay LED diagnostics.

KEY FEATURES

- Expands PMM-300P with 6 relay outputs
- Powered directly through PMM-300P
- Up to 36 outputs (6 stackable modules)
- NO, COM and NC contacts on every relay
- Dedicated LED indicator per relay
- Seamless integration via interconnection bus
- Compact DIN rail design



MONITORING SOLUTIONS



Endwinding



Air gap



Magnetic flux



Roller bearing



Axial thrust



Shaft & bearing vibration



Rotor poles temperature



DESCRIPTION

The PMM-391P is a relay extension module that expands the PMM-300P with six configurable relay outputs. Up to six modules can be stacked per PMM-300P, scaling the system to a total of 36 relay outputs.

Each relay is fully software-configurable and can be assigned to any PMM-300P status or combination of statuses, with a dedicated LED indicator for quick on-site diagnostics.

When stacked, the PMM-391P automatically connects to the power and communication buses of the PMM-300P, ensuring seamless integration with minimal wiring effort.

MODULE OVERVIEW

GENERAL

Mounting	35mm DIN rail (acc. to EN 60715) mount
Size	Approx. h:140mm L:117mm l:25mm
Weight	Approx. 200g
Connection to other modules	Sidebus connector for direct connection to other modules PMM-391P is not compatible with the PMM-305 (PLUS). Connecting them together may lead to irreversible damages.

COMMUNICATION INTERFACES

Interconnection bus	Available to connect multiple PMM-391P to one or more PMM-300P and share Power Supply and statuses
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LED INDICATOR

Power (PWR)	Diagnostic of power supply
COM	Internal communication activity
Relay 1 to Relay 6	Relay status

MODULE ID SELECTION

Module ID selection switch	Rotary switch allowing to setup the module ID between 1 and 6, other IDs are reserved. Modules of different type may share the same ID, they are internally differentiated.
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CONNECTORS

X1 to X6

4-pin terminal strip header, push-in spring connection,
clamping range 0.2mm² to 2.5mm²

PINOUT DESCRIPTION

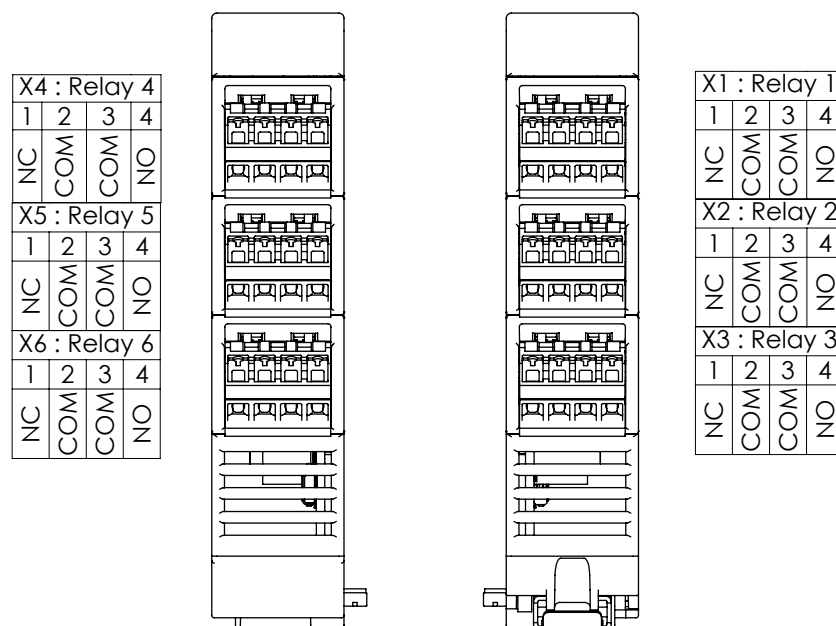


Figure 1: Pinout of the PMM-391P module

Name	Description
Relay 1 to Relay 6	Relay contacts (NO, COM, NC)
1	NC (Normally Closed)
2, 3	COM (Common)
4	NO (Normally Open)

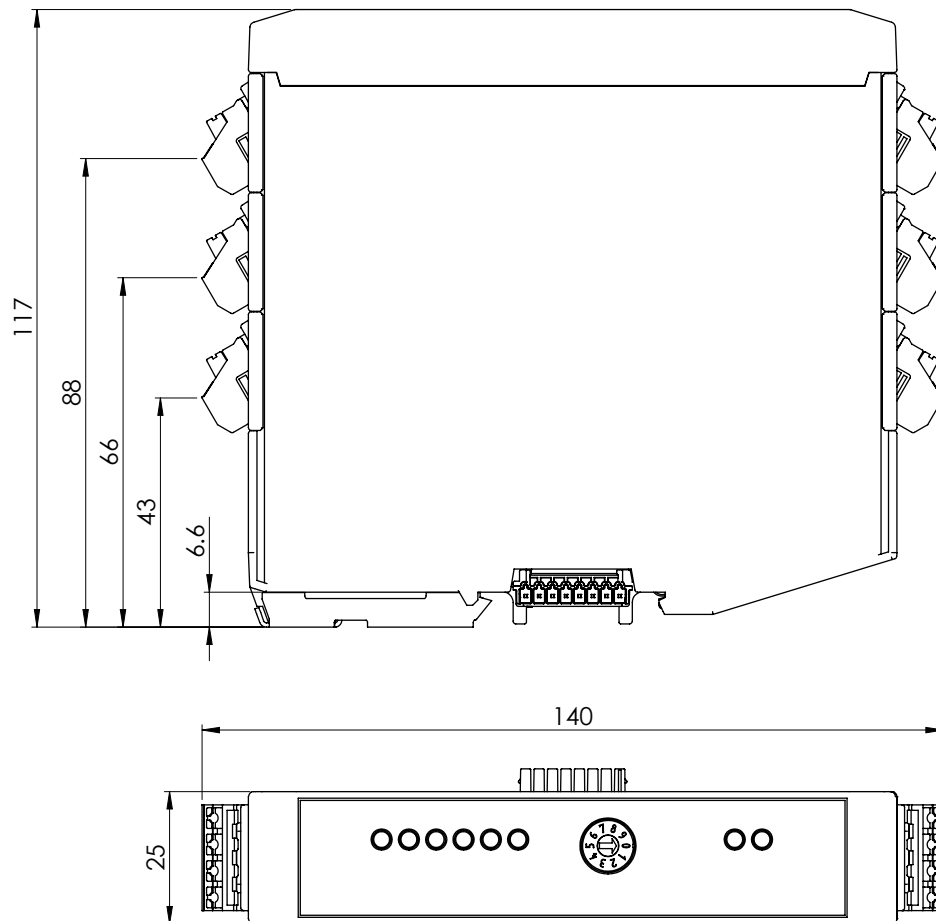
MECHANICAL DRAWING

Figure 2: Mechanical dimension of the PMM-391P module

SPECIFICATIONS

POWER SUPPLY

Parameter	Min.	Typ.	Max.	Unit	Conditions
Internal Power supply		24.0		V	
Power consumption			4	W	
Current consumption			166	mA	

CONTACTS

Parameter	Min.	Typ.	Max.	Unit	Conditions
Contact resistance			100	mΩ	
Switching voltage					
• AC			33	Vac	
• DC			30	Vdc	
Switching current					
• AC			8	Aac	
• DC			5	Adc	

ENVIRONMENTAL AND APPROVALS

Item	Specification
Ambient operating temperature	0 to 55°C
Ambient storage temperature	-20 to 75°C
Ambient operating humidity	10 to 90% RH, Non-condensing
Ambient storage humidity	10 to 90% RH, Non-condensing
Operating atmosphere	No corrosive gases, Indoor use
Ingress protection	IP30
EMC compliance	IEC 61326-1:2013
Environmental	RoHS Directive (EU) 2015/863

ORDERING INFORMATION

Part type	Ordering code	Description
PMM-391P	20.391.401	Relay Extension Module

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Quality certification



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