

## Expander Module PNOZ po3.3p



Expander module for the PNOZpower modular safety system in accordance with EN 60204-1 VDE 0113-1, 11/98 and IEC 60204-1, 10/97

### Features

- 3 safety contacts
- Dual channel connection capability with detection of shorts across the inputs when using the base unit.
- Suitable for safely switching loads with utilisation category AC3 (e.g. motor)
- External start/stop input for non-safety-related load switching

Technical Details	PNOZ po3.3p
<b>Electrical Data</b>	
Supply Voltage	via P-01-Bus
Power Consumption	Approx. 5 W
Total Current	Max. 36 A
Switching Capability in accordance with EN 60947-4-1, 01/00	AC1: 240 V/16 A/4000 VA 400 V/10 A/4000 VA (1 x 10 <sup>6</sup> cycles) 500 V/8 A/4000 VA AC3: 240 V/3 kW 400 V/5.5 kW (7 x 10 <sup>5</sup> cycles) 500 V/4000 W DC1: 24 V/16 A/384 W
Output Contacts	3 safety contacts (N/O)
Contact fuse protection according to EN 60947-5-1, 08/00	Blow-out fuse: 16 A gG quick/slow
External start/stop input y39-Y40	24 V DC/15 mA
<b>Times</b>	
Switch-on Delay	Approx. 100 ms + Switch-on Delay of the base unit
Delay-on De-energisation	Approx. 50 ms + Delay-on De-energisation of the base unit
<b>Mechanical Data</b>	
Cross Section of External Conductors	1 x 2.5 mm <sup>2</sup> Single-core or multi-core with crimp connectors
Torque setting for connection terminals	0.5 Nm (screws)
Mounting Position	On a top hat rail installed horizontally.
Protection Housing	IP 30
Dimensions (H x W x D)	94 x 90 x 144 mm
Weight	645 g

### Approvals

	PNOZ po3.3p
	Pending
	●
	●

### Description

- 90 mm, P-01 housing, DIN-Rail mounting
- Relay outputs, positive-guided:
  - 3 safety contacts (N/O)
- Connection between base unit, control unit and between expander modules via P-01-Bus through connector plug on the rear of the unit.
- LEDs for channel 1/2, supply voltage and fault

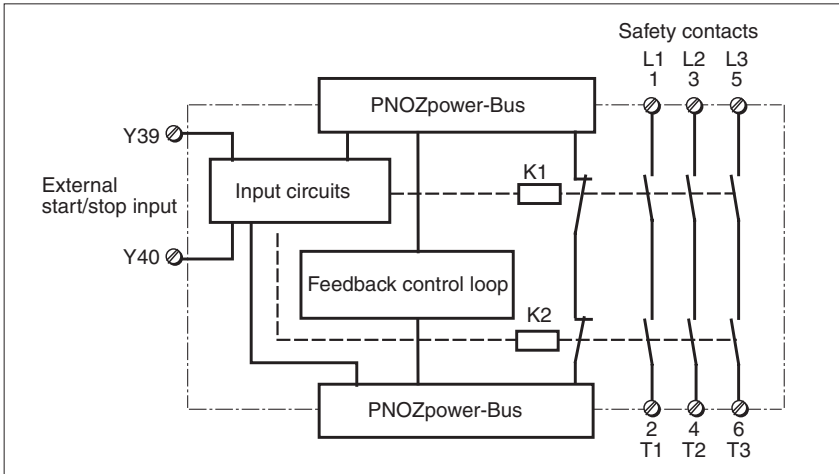
### Function Description

PNOZ po3.3p supplies 3 safety contacts for the modular safety system PNOZpower. It must be used in conjunction with a base unit or PNOZ e1p control unit

The output contacts can be opened via an external start/stop input. This enables loads to be switched under normal operating conditions, without energising the E-STOP circuit.

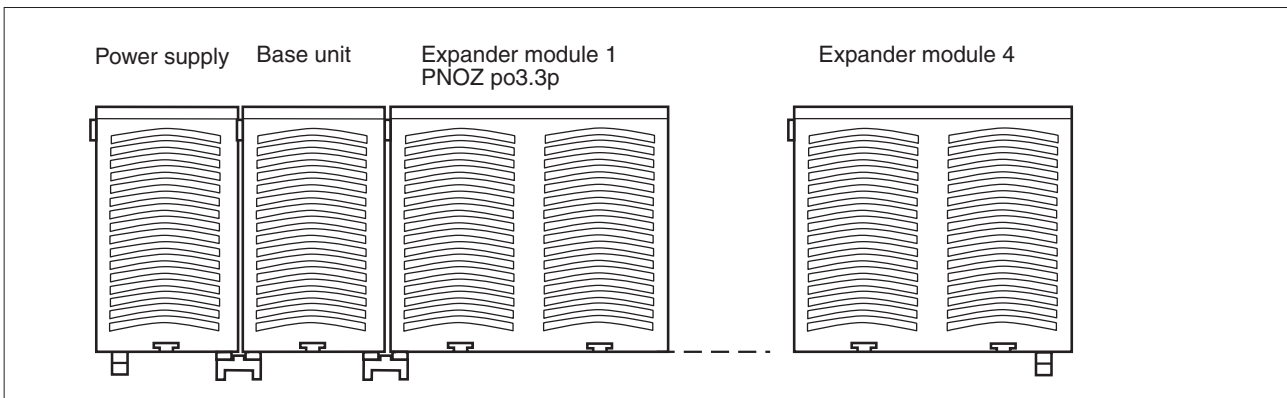
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### Internal Wiring Diagram

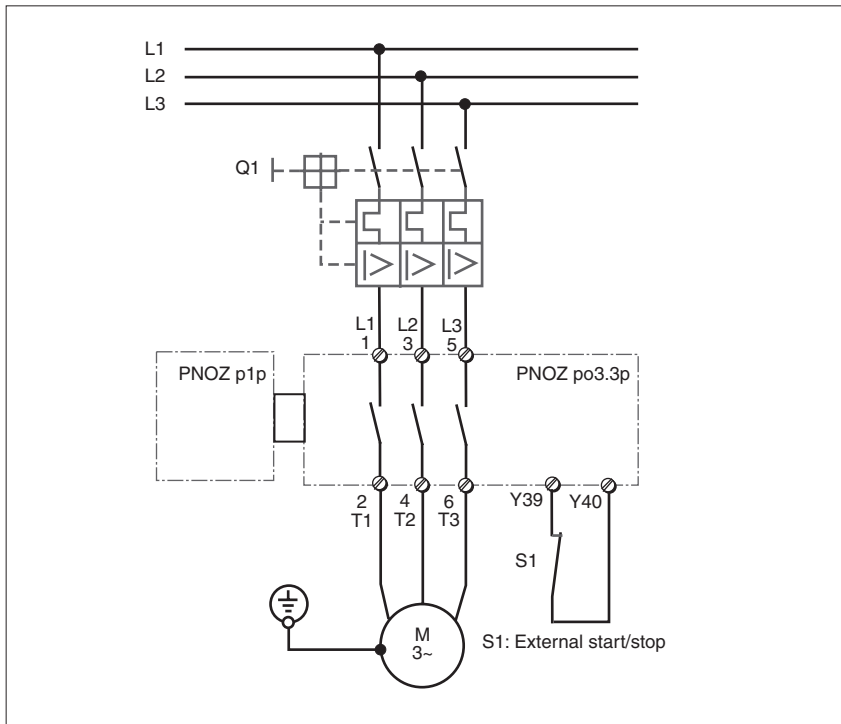


### External Wiring

- PNOZpower Bus: Base unit connected with 4 expansion modules and power supply (optional) via connector plugs.



● Motor AC3



## Expander Module

### PNOZ po3.3p

#### General Technical Data

Unless stated otherwise in the technical details for the specific unit

#### Electrical Data

Frequency Range AC	50 ... 60 Hz
Residual Ripple DC	160 %
Contact Material	AgSnO <sub>2</sub>
Continuous Duty	100 %

#### Environmental Data

EMC	EN 50081-1, 01/92, EN 61000-6-2, 03/00
Vibration in accordance with EN 60068-2-6, 01/00	Frequency: 10 ... 55 Hz, Amplitude: 0.35 mm
Climatic Suitability	DIN IEC 60068-2-3, 12/86
Airgap Creepage	DIN VDE 0110 part 1, 04/97
Ambient Temperature	-10 ... +55 °C
Storage Temperature	-40 ... +85 °C

#### Mechanical Data

Torque Setting on Connection Terminals	0.6 Nm (screws)
Mounting Position	Any
Housing Material	Front: ABS UL 94 V0 Housing: PPO UL 94 V0
Protection	Mounting: IP 54 Housing: IP 40 Terminal Range: IP 20

The units were tested in accordance with the relevant standards current at the time of development.

#### Order References

Type	U <sub>B</sub>	Order No.
PNOZ po3.3p	24 V DC	773 632