

Power reducing plug P03

- After energising solenoid current is reduced by 50%
- · Direct mounting on the valve
- Protection class IP 65
- Housing types for solenoids from
 29

DIN 43650 **ISO 4400**



P 03 A - 1 🗌 # 🗌

DESCRIPTION

Power reducing plug direct solenoid mounting. Contact arrangement in accordance with DIN 43650, form A (ISO 4400) for DC switching solenoids from 29 or bigger. The protection class of the power reduction plug is IP65 when fitted according to EN 60529. The connecting cable has to be attached to the screw terminals in the plug.

FUNCTION

Once the power has been switched on, nominal current passes through the solenoid for approx. 380ms, thereafter the current is limited to half of the nominal value by the cycle controlled output stage. If the power reduction plug version 90...230 VAC/DC is supplied foralternating current, it is nevertheless advantageous to use a DC solenoid.

APPLICATION

The housing is splash-protected, and can be used over a wide temperature range. The power reduction plug is suitable both for industrial and mobile use. The plug can be rotated through 180°. It protects continuously energised solenoids (e.g. used as a safety device) from overtemperature and premature ageing. By overenergisation, a valve which is in deenergised normal position (eventually seized piston) can be switched straight through under high-power.

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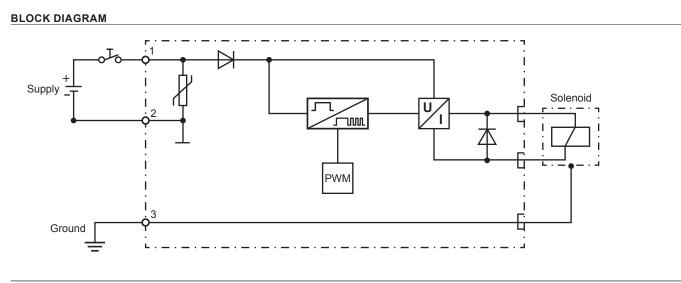
GENERAL SPECIFICATIONS

Polyamid
Polycarbonat
30g
by cable 0,51,5 mm ²
-2560°C
higer temperatures on request

Plug					
Type number					
Housing type A for solenoids 29	or larger				
1-solenoid-version					
Supply voltage 1224 VDC 90230 VAC or 90230 VDC	D2 B0			-	
Design-Index (Subject to change)					

ELECTRICAL SPECIFICATIONS

Supply voltage	1224VDC Range: 1136VDC
	90230VAC/DC Range: 80240VAC/DC
	Caution: Voltages which are outside of the
	tolerance can destroy the electronics!
Dither	Frequency fix ca. 700 Hz
Solenoid current	Version 1224VDC (P03A-1D2)
	I _{Nmax} = 3,8A
	Version 90230VAC/DC (P03A-1B0)
	$I_{Nmax} = 0.6A$
Switching frequency	600/h (50% ED)
	Higher switching frequencys on request
EMC	IEC 801-4 Level 3



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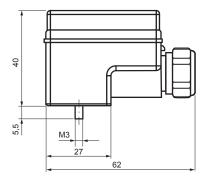
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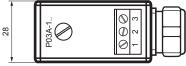
Illustrations not obligatory Data subject to change

Solenoid accessory

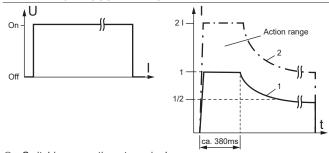


DIMENSIONS





APPLICATION POSSIBILITIES



- Switching operation at nominal power, with subsequent power reduction.
 reduced heating of coil
 - extended life of solenoid

- shorter disconnection time

- Switching at elevated nominal power or overvoltage.
 For optimum design, please contact us.
 powerful straight-through switching
 shorter switching time
- U: Supply voltage of the power reduction plug
- I: Current consumption of the solenoid

START-UP

(This data sheet is enclosed with each power reducing plug)

Examples of connection DC- Version: AC- Version: S S Supply Supply Ð Œ N Ċ. F1: 12...24VDC (P03A-1D2) = 5A quick break = (P03A-1B0) 800mA 90...230VAC/DC quick break Instruction for connection (2) (3) ca. 60mm cable Insert cable Connect cable (5) (6) (4) Pull up the cable Insert the cable again Fasten the plug onto the solenoid

Supply voltage

The cable is connected as described above.

Important warning!

The power supply to the plug version for 90...230VAC/DC must be disconnected or switched of while the cable is being connected to the plug and/ or while the cover is removed.

Installation

To be able to fit the power reduction plug in the 180° reversed position, it is necessoiry to remove the bottom of the plug using a screw driver and to refit it rotated through 180°.

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