

## WD534400

### MONITORS • ROTATION SPEED MONITORS

The monitoring of rotation speed or rotating movements is necessary in many applications to ensure the proper operation of the plant. Our rotation- and zero speed monitors operate according to different operating principles: 1. Monitoring of pulses of a transducer via a current transformer, 2. Frequency measurement of the phase current. Our devices feature, depending on the type, a wide variety of functions. For a further evaluation in a higher-level control, the results are i.e. outputted as easy relay contact (over-/underspeed) or as analog output signal resolved to the set rotation speed range.



#### MECHANICAL DATA

Ambient temperature	-20 °C ... 60 °C
Degree of protection (IP)	IP20
Depth	97 mm
Height	90 mm
Housing material	Plastic
Mounting method	DIN rail (top hat rail) 35 mm
Storage temperature	60 °C
Storage temperature	-20 °C
Suitable for DIN rail (top hat rail) mounting	Yes
Width	22.5 mm

#### ELECTRICAL DATA

Input voltage at AC 50 Hz	184 V ... 253 V
Input voltage at DC	20.4 V ... 28.8 V
Measuring range rotational speed	1 1/min ... 120000 1/min
Minimum pulse length	0.02 ms
Number of outputs	2
Number of outputs, signaling function, undelayed, with contact	2
Power consumption	4 VA
Rated control supply voltage $U_s$ at AC 50HZ	184 V ... 253 V
Rated control supply voltage $U_s$ at DC	20.4 V ... 28.8 V
Readiness delay	400 ms
Rotation speed monitoring function	Yes
Setting procedure	Parameterization
Standstill monitoring function	Yes
Start-up delay time	50 s
Start-up delay time	1 s
Suitable for safety functions	No
Switching current	3 A
Switching voltage	230 V

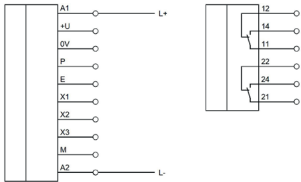
## ELECTRICAL DATA

Transducer power supply current	20 mA
Transducer power supply voltage	24 V
Type of electrical connection	Clamp
Type of switching function	Change-over contact
Type of switching output	Relay contact
Type of transducer power supply voltage	DC
Voltage type for actuation	DC
With LED display	Yes

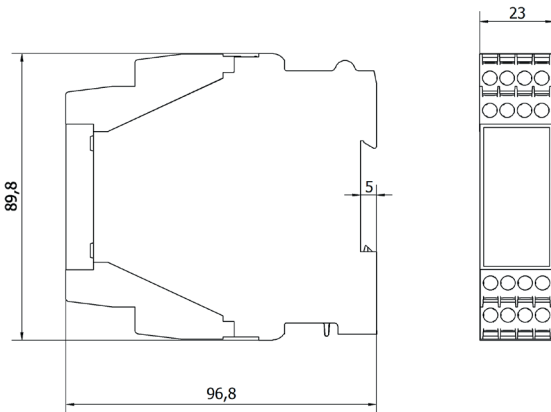
## OTHER DATA

Multifunctional device	Yes
SIL according to IEC 61508	0
With start-up delay	Yes
With transducer power supply	Yes

## CONNECTION



## DIMENSIONAL DRAWING



## INSTALLATION



Mounting / Installation may only be carried out by a qualified electrician!

## DISPOSAL



## SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!

