Rotary drive unit ERMS-32-180-ST-M-H1-PLK-AA

FESTO

Part number: 8087822





Data sheet

Feature	Value
Size	32
Structural design	Electromechanical rotary actuator With integrated drive with integrated gearbox
Mounting position	Any
Type of mounting	With internal thread
Rotation angle	180°
Gear ratio	7:1
Max. rotational speed	100 1/min
Torsional backlash	0.2 deg
Repetition accuracy	±0.1 °
Position sensing	Motor encoder
Max. axial force	450 N
Max. radial force	550 N
Permissible mass moment of inertia	0.0164 kgm²
Product weight	2304 g
Step angle with full step	1.8 deg
Step angle tolerance	±5%
Duty cycle	100%
Power supply, type of connection	Plug
Power supply, connection technology	M12x1, T-coded as per EN 61076-2-111
Power supply, number of pins/wires	4
Power supply, connection pattern	00995989
Logic interface, connection type	Plug
Logic interface, connection technology	M12x1, A-coded as per EN 61076-2-101
Logic interface, number of poles/wires	8
Logic interface, connection pattern	00992264
Max. cable length	15 m outputs 15 m inputs 20 m for IO-Link® operation
DC nominal voltage	24 V
Nominal current	5.3 A
Motor nominal current	5 A
Max. current consumption	5300 mA
Permissible voltage fluctuations	+/- 15 %
Number of digital logic inputs	2

Morg galvanically isolated	Feature	Value
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Protection class III Storage temperature -20 °C 60 °C	Interface code, base	E8-55
Storage temperature -20 °C 60 °C	Degree of protection	IP40
	Protection class	III
Ambient temperature 0 °C 50 °C	Storage temperature	-20 °C 60 °C
	Ambient temperature	0 °C 50 °C

Feature	Value
Note on ambient temperature	Above an ambient temperature of 30°C, the power must be reduced by 2% per K.
Relative air humidity	0 - 85 %
Vibration resistance	Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
LABS (PWIS) conformity	VDMA24364 zone III
Note on materials	RoHS-compliant
Material of flange	Wrought aluminum alloy, anodized
Housing material	Wrought aluminum alloy, anodized