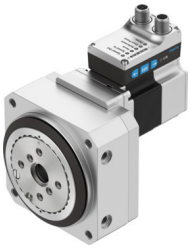
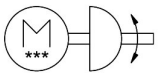
Rotary drive unit
ERMS-32-180-ST-M-H1-PLK-AA

Part number: 8087822





Data sheet

Feature	Value
Size	32
Design	Electromechanical rotary drive With integrated drive With integrated gear unit
Mounting position	optional
Type of mounting	Via female thread
Gear unit ratio	7:1
Max. rotational speed	100 rpm
Torsional backlash	0.2 deg
Repetition accuracy	±0.1 °
Position detection	Motor encoder
Max. axial force	450 N
Max. radial force	550 N
Permissible mass moment of inertia	0.0164 kgm²
Product weight	2304 g
Stepper angle for complete step	1.8 deg
Stepping angle tolerance	±5%
Duty cycle	100%
Power supply, connection type	Plugs
power supply, connection system	M12x1, T-coded according to EN 61076-2-111
Power supply, number of pins/wires	4
Logic interface, connection type	Plug
Logic interface, connection technology	M12x1, A-coded according to EN 61076-2-101
Logic interface, number of pins/wires	8
Max. cable length	15 m outputs 15 m inputs 20 m with IO-Link® operation
Nominal voltage DC	24 V
Nominal current	5.3 A
Nominal motor current	5 A
Max. current consumption	5.3 A
Permissible voltage fluctuations	+/- 15%

Feature	Value
Number of digital logic inputs	2
Features of logic input	Configurable Not galvanically isolated
Specification logic input	Based on IEC 61131-2, type 1
Working range of logic input	24 V
Switching logic for inputs	PNP (positive switching)
Number of digital logic outputs 24 V DC	2
Features of digital logic outputs	Configurable Not galvanically isolated
Max. current digital logic outputs	100 mA
Switching logic for outputs	PNP (positive switching)
IO-Link, SIO-Mode support	Yes
IO-Link, Protocol version	Device V 1.1
IO-Link, communication mode	COM3 (230.4 kBaud)
IO-Link, Port class	A
IO-Link, Number of ports	1
IO-Link, Process data length OUT	2 bytes
IO-Link, Process data content OUT	Move in 1 bit Move out 1 bit Quit Error 1 bit Move intermediate 1 bit
IO-Link, Process data length IN	2 bytes
IO-Link, Process data content IN	State Device 1 bit State In 1 bit State Intermediate 1 bit State Move 1 bit State Out 1 bit
IO-Link, Service data IN	32-bit force 32-bit position 32-bit speed
IO-Link, Min. cycle time	1 ms
IO-Link, Data storage required	0.5 KB
IO-Link, connection technology	Plugs
Parameterisation interface	IO-Link User interface
Insulation protection class	B
Type of motor	Stepper motor
Rotor position sensor	Absolute single-turn encoder
Rotor position sensor, encoder measuring principle	Magnetic
Rotor position transducer resolution	16 bit
Referencing	Positive fixed stop block Negative fixed stop block
Protective function	Temperature monitoring
Additional functions	User interface Integrated end-position sensing
Display	LED
Angular acceleration	140 rad/s²
Approval	RCM trademark
KC mark	KC-EMV
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC
Peak torque	5.6 Nm
Interface code, basis	E8-55
Degree of protection	IP40
Storage temperature	-20 °C...60 °C
Ambient temperature	0 °C...50 °C

Feature	Value
Note on ambient temperature	Power must be reduced by 2% per K at ambient temperatures above 30°C.
Relative air humidity	0 - 85%
Vibration resistance	Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27
LABS (PWIS) conformity	VDMA24364 zone III
Note on materials	RoHS-compliant
Max. current consumption, logic	0.3 A
Maintenance interval	Life-time lubrication