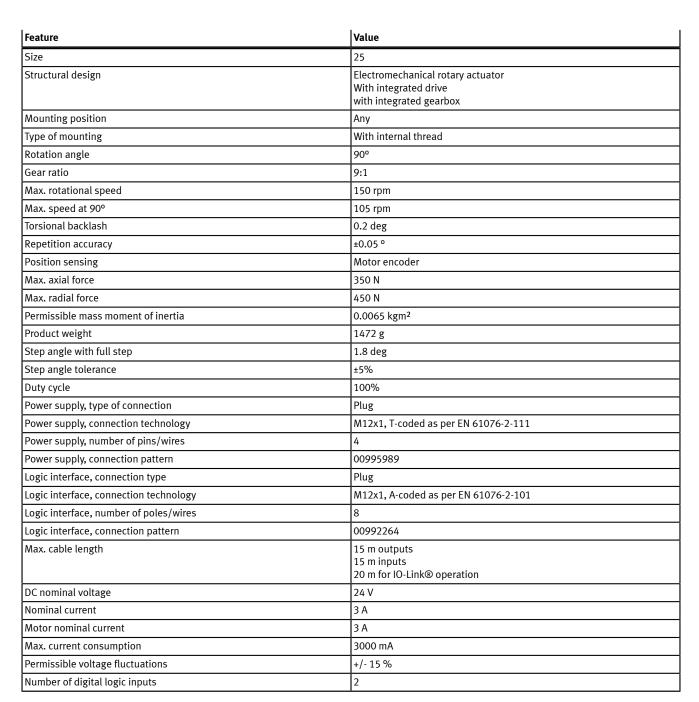
## Rotary drive unit ERMS-25-90-ST-M-H1-PLK-AA

Part number: 8087819



## **Data sheet**



**FESTO** 



## General operating condition

Feature	Value
Characteristics of logic input	Configurable
	Not galvanically isolated
Logic input specification	Based on IEC 61131-2, type 1
Work range of logic input	24 V
Input switching logic	PNP (positive switching)
Number of digital logic outputs 24 V DC	2
Characteristics of digital logic outputs	Configurable
	Not galvanically isolated
Max. current of digital logic outputs	100 mA
Switching logic at 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 kBd)
IO-Link®, port class	Α
IO-Link®, number of ports	1
IO-Link®, process data width OUT	2 Byte
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 width IN	2 Byte
IO-Link®, process data content IN	State In 1 bit
	State Out 1 bit State Move 1 bit
	State Device 1 bit
	State Intermediate 1 bit
IO-Link®, service data contents IN	32 bit force
	32 bit position 32 bit speed
IO-Link®, minimum cycle time	1 ms
IO-Link®, data memory required	500 byte
IO-Link®, Connection technology	Plug
Parameterization interface	IO-Link®
	User interface
Insulation protection class	В
Motor type	Stepper motor
Rotor position sensor	Absolute encoder, single-turn
Rotor position sensor measuring principle	Magnetic
Rotor position sensor resolution	16 bit
Homing	Fixed stop block positive
	Fixed stop block, negative
Protective function	Temperature monitoring
Additional functions	User interface Integrated end-position sensing
Display	LED
Ready status indication	LED
Symbol	00997295
Angular acceleration	≤140 rad/s <sup>2</sup>
Certification	RCM compliance mark
KC characters	KCEMC
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
	To UK instructions for EMC
UKCA marking (see declaration of conformity)	To UK RoHS instructions
	To UK RoHS instructions 2.7 Nm
UKCA marking (see declaration of conformity) Peak torque Interface code, base	

Feature	Value
Protection class	Ш
Storage temperature	-20 °C 60 °C
Ambient temperature	0 °C 50 °C
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
Speed "Speed Press"	3 m/s
Logic max. current consumption	0.3 A
Maintenance interval	Life-time lubrication