

Positioning drive MSIA – FlexiDrive Profibus-DP

features

- power nominal 50 W
- absolute multi-turn encoder
- 4 programmable inputs
- bus in and bus out connector
- separate power supply for electronics
- run records programmable

technical data

voltage supply	24 VDC ±10 %	
max. supply current	8 A	
operation mode	S1 ²⁾	S3 ³⁾
current nom.	1,7 A	5,0 A
power output nom. ¹⁾	22 W	50 W
rotational speed nom. ¹⁾	3'420 rpm	2'540 rpm
torque nom. ^{1) 4)}	0,06 Nm	0,2 Nm
positioning resolution ¹⁾	0,02°	
positioning accuracy ¹⁾	±1°	
repeatability ¹⁾	0,3°	
revolutions ¹⁾	262'144	
operating hours	20'000 h	
material	housing: aluminum	
max. shaft load ¹⁾	axial: 40 N radial: 400 N	

¹⁾ without gear

²⁾ S1 continuous duty (DIN EN 60034-1)

specifications at ambient temperature +40 °C

communication

fieldbus	Profibus-DP
profile	Profibus nr. 3 version 2.0
max. baud rate	12 Mbit/s



order designation

MSIA	53P2PA11-N52				
				gear ratio	
				004	046
				007	150
				014	000 (without gear)
				gear variant	
				K0	without gear
				P5	planetary gear
				protection class	
				C	IP 54
				E	IP 65

³⁾ S3 intermittent duty, cycle 1 min, power on duration 25%

⁴⁾ at operation factor = 1

⁵⁾ only with leak-proof D-Sub connector

ambient conditions

protection class	IP 65 ⁵⁾
ambient temperature	-15...+40 °C
overtemp. protection	yes
isolation class	B (+130 °C, DIN EN 60034-1)

motor-gear-combinations

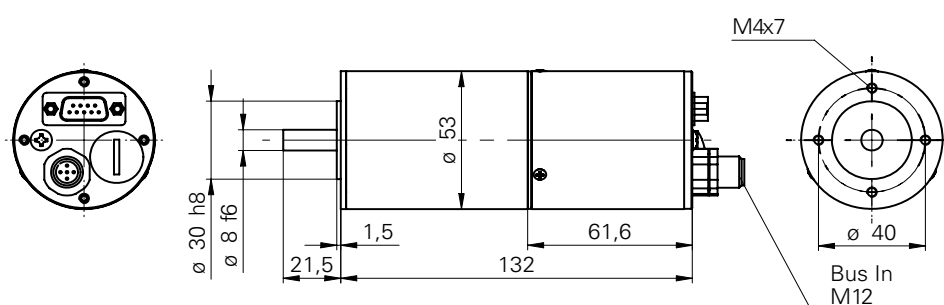
torque nominal (Nm)		output speed (rpm)		gear ratio	revolution	transmission play (in degrees)	shaft load (N)		weight (kg)	total length L (mm)
S1	S3	S1	S3				axial	radial		
0,2	0,7	841	561	3,7	70'850	0,7	60	200	1,3	188
0,3	1,1	533	356	6,75	38'836				1,3	
0,6	2,0	262	175	13,73	19'093	0,75	100	320	1,5	202
2,0	6,8	79	53	45,56	5'754				1,5	
6,3	21	24	16	149,9	1'749	0,8	150	450	1,7	216

Additional motor - gear combinations are available on request.

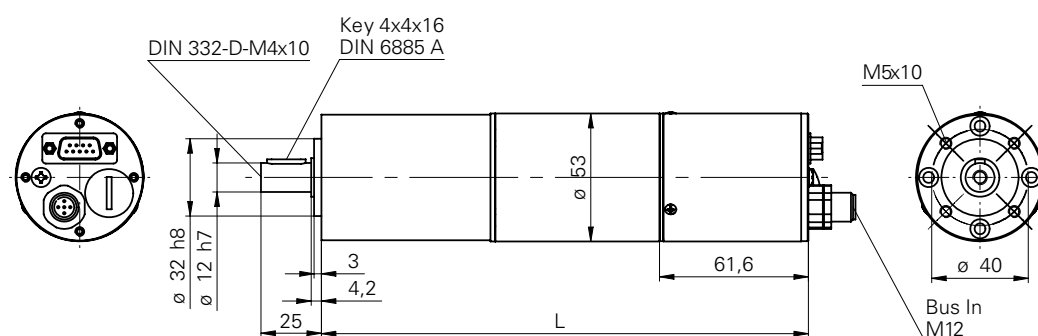
Profibus-DP

dimensions

K without gear



P planetary gear



hint

switches for bus address adjustment are located behind removable cover

assignment connector 9-pin D-Sub male

pin nr.	signal	description
1	+VsE	+24 VDC voltage supply electronics
2	Input 1	programmable input
3	Input 2	programmable input
4	Input 3	programmable input
5	Input 4	programmable input
6	0 VME	0 VDC voltage supply motor/electronics
7	0 VME	0 VDC voltage supply motor/electronics
8	+VsM	+24 VDC voltage supply motor
9	+VsM	+24 VDC voltage supply motor

assignment connector 5-pin M12 male

pin nr.	signal	description
1	+VsDP	VP Profibus +5VDC
2	A line green	cable green / Profibus-DP
3	0 VDP	DGND Profibus
4	B line red	cable red / Profibus-DP
5	screen	housing

B-coded

accessoires

CD-ROM with GSD-/EDS-/XML-files and manuals part nr. 147362
D-Sub connector (female) part nr. 153493
refer to fieldbus accessories, page 5.27