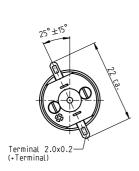
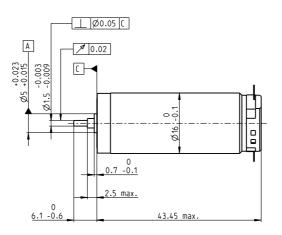
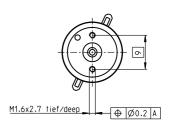
RE 16 Ø16 mm, graphite brushes, 4.5 watt









M 1:1

Motor Data

2 No load speed

3 No load current

4 Nominal speed

5 Nominal torque

7 Stall torque

8 Stall current

9 Max. efficiency

12 Torque constant

13 Speed constant

Characteristics 10 Terminal resistance

11 Terminal inductance

14 Speed/torque gradient

15 Mechanical time constant

Stock program Standard program Special program (on request)

> Values at nominal voltage Nominal voltage

6 Nominal current (max. continuous current)

118710 | 118711 | 118712 | 118713 | 118714 | 118715 | 118716 | 118717 | 118718 | 118719 | 118720 | 118721 | 118722 | 118723 | 118724 4.8 rpm 12700 12100 13200 13600 13100 13900 14000 13200 14000 14700 14100 14500 14200 10100 5320 mΑ 105 98.7 87.6 75.4 56.9 45.9 37.1 28.5 23 19.6 15.6 12.8 11.8 7.66 3.63 11200 10500 11500 11700 11000 11900 12100 11300 12100 12900 12300 12700 12400 8120 3170 rpm mNm 2.15 2.27 2.67 3.18 4.23 4.36 4.42 4.53 4.53 4.4 4.46 4.42 4.43 4.65 4.77 0.72 0.72 0.72 0.72 0.712 0.582 0.475 0.379 0.302 0.247 0.2 0.163 0.15 0.111 0.0603 26.3 22.8 25.8 27.4 29.9 34.3 35.3 33.4 36.3 36.8 35.6 36.2 35.4 24.2 mNm 12.1 7.56 6.26 6.16 5.58 4.65 4.23 3.51 2.6 2.24 1.91 1.48 1.23 1.11 0.541 0.144 % 73 76 80 80 80 81 81 81 81 78 71 Ω 0.635 0.767 0.975 1.29 1.94 2.83 4.28 6.93 10.7 15.7 24.4 36.5 43.3 88.7 334

0.284

12.9

742

399

5.43

0.452

16.2

589

389

5.31

0.639

19.3

495

403

5.28

0.993

24.1

397

402

5.25

1.48

29.4

325

404

5.23

1.74

31.9

299

407

5.22

3.44

44.8

213

423

5.24

12.1

83.9

114

453

5.28

20 11100110111100111111100011010111		0.0.	0.00		· · · ·	00	00	0.00	0	0.0.	00	00	00	·	· ·	00	
16 Rotor inertia	gcm ²	1.73	1.44	1.33	1.26	1.31	1.34	1.32	1.3	1.3	1.25	1.25	1.24	1.23	1.18	1.11	
Specifications			Operating Range							Comments							
Thermal data 17 Thermal resistance housing-ambi 18 Thermal resistance winding-housi 19 Thermal time constant winding 20 Thermal time constant motor 21 Ambient temperature 22 Max. winding temperature		n [rpm 16000 12000				4.5 W			Continuous operation In observation of above listed thermal resistance (lines 17 and 18) the maximum permissible winding temperature will be reached during continuous operation at 25°C ambient. = Thermal limit.								
Mechanical data (sleeve bearing 23 Max. speed 24 Axial play	16 000 rpm 0.05 - 0.15 mm	4000	-				_	_			erm ope otor may		efly over	loaded (recurrir	ng).	
25 Radial play 26 Max. axial load (dynamic) 27 Max. force for press fits (static)	0.014 mm 0.8 N 15 N			2.0 0.1 0	4.0	6.0	M [mNm]	_	Assign	ed pow	er ratin	g				

1.5 N 28 Max. radial load, 5 mm from flange

Other specifications 29 Number of pole pairs

30 Number of commutator segments 31 Weight of motor

Values listed in the table are nominal. Explanation of the figures on page 90. Modular System Gear

Part Numbers

mΗ

ms

mNm/A

rpm/V

rpm/mNm

0.021

3.48

2750

502

9.07

0.023

3.64

2630

554

8.35

0.03

4.2

2280

529

7.36

0.042

4.91

1940

510

6.71

0.071

6.43

1480

447

6.13

0.113

8.11

1180

411

5.78

0.174

10.1

948

403

5.56

40 g 405 GP 16 A 406_GP16C 447-449_GP 16 S Details on catalog page 44

Motor Control 532 FSCON Module 24/2 532_ESCON 36/2 DC 533_ESCON Module 50/5 535_ESCON 50/5

150 maxon DC motor April 2022 edition / subject to change