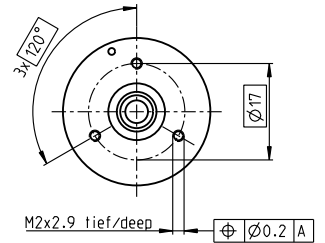
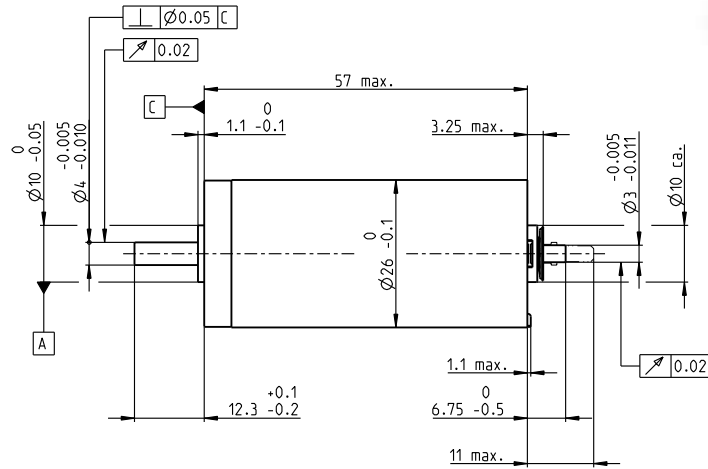
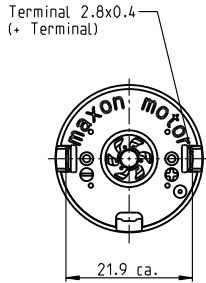


DCX 26 L Ø26 mm, graphite brushes, DC motor

Key data: 40/74 W, 59.8 mNm, 14400 rpm



M 3:4

Motor data

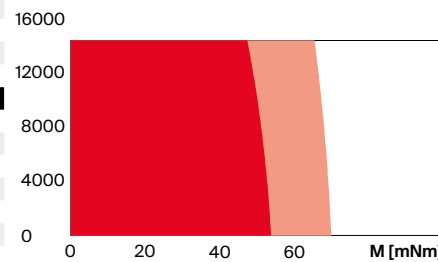
1_	Nominal voltage	V	12	18	24	36	48	60
2_	No load speed	rpm	10600	11100	10700	11100	10700	10900
3_	No load current	mA	131	93	65.7	46.5	32.9	27.3
4_	Nominal speed	rpm	9460	10000	9690	10000	9730	10000
5_	Nominal torque	mNm	46.9	54.3	57.8	54	59.1	59.8
6_	Nominal current (max. continuous current)	A	4.5	3.59	2.76	1.79	1.41	1.17
7_	Stall torque	mNm	532	653	695	639	697	750
8_	Stall current	A	49.7	42.2	32.4	20.6	16.2	14.3
9_	Max. efficiency	%	88	90	91	90	91	91
10_	Terminal resistance	Ω	0.242	0.427	0.74	1.75	2.95	4.19
11_	Terminal inductance	mH	0.032	0.067	0.129	0.268	0.514	0.768
12_	Torque constant	mNm/A	10.7	15.5	21.4	31	42.9	52.4
13_	Speed constant	rpm/V	890	616	445	308	223	182
14_	Speed/torque gradient	rpm/mNm	20.1	17	15.4	17.4	15.3	14.6
15_	Mechanical time constant	ms	4.5	3.79	3.45	3.53	3.4	3.16
16_	Rotor inertia	gcm ²	21.4	21.3	21.4	19.4	21.2	20.7

Thermal data

17_	Thermal resistance housing-ambient	K/W	10.2
18_	Thermal resistance winding-housing	K/W	3.01
19_	Thermal time constant winding	s	24
20_	Thermal time constant motor	s	620
21_	Ambient temperature ball bearings	°C	-40...+100
21_	Ambient temperature sleeve bearings	°C	-30...+100
22_	Max. winding temperature	°C	155

Operating range

n [rpm] Winding 18 V



- Continuous operation
- Continuous operation with reduced thermal resistance R_{th2} 50%
- Intermittent operation

Mechanical data ball bearings

23_	Max. speed	rpm	14400
24_	Axial play	mm	0...0.1
24_	Preload	N	5.5
25_	Radial play	mm	0.02
26_	Max. axial load (dynamic)	N	5.5
27_	Max. force for press fits (static) (shaft supported)	N	40
28_	Max. radial load [mm from flange]	N	500
28_	Max. radial load [mm from flange]	N	20.5 [5]

Mechanical data sleeve bearings

23_	Max. speed	rpm	8600
24_	Axial play	mm	0...0.2
24_	Preload	N	0
25_	Radial play	mm	0.02
26_	Max. axial load (dynamic)	N	0.1
27_	Max. force for press fits (static) (shaft supported)	N	80
28_	Max. radial load [mm from flange]	N	500
28_	Max. radial load [mm from flange]	N	5.5 [5]

Other specifications

29_	Number of pole pairs		1
30_	Number of commutator segments		11
31_	Weight of motor	g	170
32_	Typical noise level	dBA	44

Motor specifications may vary for version with sintered bearing (max. winding temperature 125°C).

Modular system

Gear	Stages [opt.]
396_GPX 26 A/C	1-2 [3]
397_GPX 26 LN/LZ	1-2 [3]
398_GPX 26 HP	2-3 [4]
399_GPX 32 A/C	3
400_GPX 32 LN/LZ	3
401_GPX 32 HP	4

Sensor

507_ENX 10 EASY/QUAD
508_ENX 10 EASY XT
509_ENX 16 EASY
510_ENX 16 EASY XT
511_ENX 16 EASY Abs.
512_ENX 16 EASY Abs. XT
518_ENX 22 EMT
519_ENX 16 RIO
535_ENC 30 HEDS 5540
539_ENC 30 HEDL 5540

Details on catalog page 40

Motor Control

550_ESCON 36/2 DC
551_ESCON Module 50/5
553_ESCON 50/5
557_ESCON2 Micro 60/5
563_EPOS4 Micro 24/5
565_EPOS4 Compact 24/5 3-axes
564_EPOS4 Module 50/5
567_EPOS4 Compact 50/5
569_EPOS4 50/5
570_EPOS4 Disk 60/8

Configuration

Bearing: Ball bearings preloaded/sleeve bearings
 Commutation: Precious metal brushes with CLL/graphite brushes
 Flange front/back: Standard flange/configurable flange/no flange
 Shaft front/back: Length/diameter/flat face
 Electric connection: Terminals or cable/alignment of connection/cable length/connector type