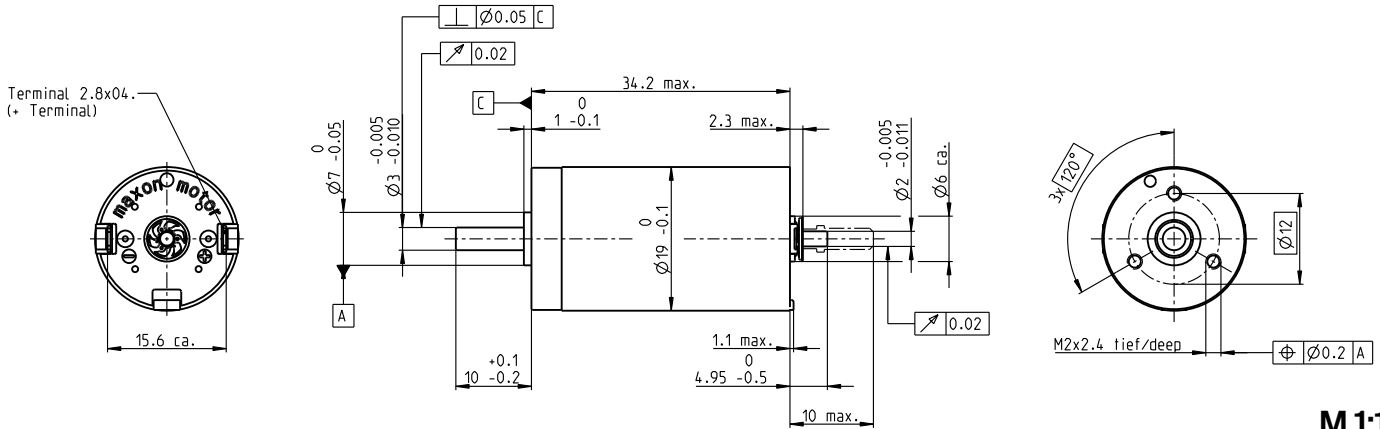
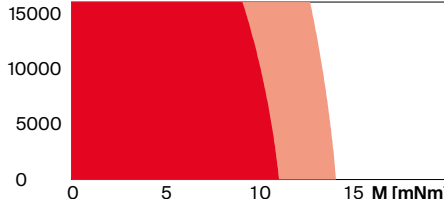


DCX 19 S Ø19 mm, graphite brushes, DC motor

Key data: 11/17 W, 11.4 mNm, 16 000 rpm



M 1:1

Motor data								
1_	Nominal voltage	V	9	12	18	24	36	48
2_	No load speed	rpm	12900	12800	12600	12700	12700	12700
3_	No load current	mA	102	75	48.9	37.4	25	18.7
4_	Nominal speed	rpm	10900	10800	10600	10600	10700	10700
5_	Nominal torque	mNm	11.3	11.4	11.4	11.1	11.3	11.3
6_	Nominal current (max. continuous current)	A	1.81	1.35	0.884	0.657	0.445	0.335
7_	Stall torque	mNm	73.8	73.9	72.2	73.2	73.9	73.8
8_	Stall current	A	11.2	8.30	5.33	4.11	2.77	2.07
9_	Max. efficiency	%	82	82	82	81	82	82
10_	Terminal resistance	Ω	0.802	1.45	3.38	5.84	13.0	23.2
11_	Terminal inductance	mH	0.045	0.082	0.191	0.329	0.740	1.320
12_	Torque constant	mNm/A	6.58	8.90	13.5	17.8	26.7	35.6
13_	Speed constant	rpm/V	1450	1070	705	536	358	268
14_	Speed/torque gradient	rpm/mNm	177	174	176	176	174	174
15_	Mechanical time constant	ms	4.94	4.90	4.88	5.07	5.00	4.97
16_	Rotor inertia	gcm²	2.67	2.68	2.65	2.75	2.74	2.72
Thermal data				Operating range				
17_	Thermal resistance housing-ambient	K/W	176	n [rpm] Winding 18 V 				
18_	Thermal resistance winding-housing	K/W	6.5					
19_	Thermal time constant winding	s	116					
20_	Thermal time constant motor	s	312					
21_	Ambient temperature ball bearings	°C	-40...+100					
Ambient temperature sleeve bearings			°C	-30...+100				
22_	Max. winding temperature	°C	125					
Mechanical data ball bearings								
23_	Max. speed	rpm	16 000					
24_	Axial play	mm	0...0.1					
Preload			N	2.5				
25_	Radial play	mm	0.02					
26_	Max. axial load (dynamic)	N	2.5					
27_	Max. force for press fits (static)	N	30					
(shaft supported)			N	440				
28_	Max. radial load [mm from flange]	N	16 [5]					
Mechanical data sleeve bearings				Modular system			Details on catalog page 40	
23_	Max. speed	rpm	13500	Gear	Stages [opt.]	Sensor	Motor Control	
24_	Axial play	mm	0...0.2	386_GPX 19 A/C	1-2 [3-4]	507_ENX 10 EASY	550_ESCON Module 24/2	
Preload			N	387_GPX 19 LN/LZ	1-2 [3-4]	507_ENX 10 QUAD	550_ESCON 36/2 DC	
25_	Radial play	mm	0.02	388_GPX 19 HP	2-3 [4]	508_ENX 10 EASY XT	551_ESCON Module 50/5	
26_	Max. axial load (dynamic)	N	0.1	390_GPX 22 A/C	3-4	509_ENX 16 EASY	553_ESCON 50/5	
27_	Max. force for press fits (static)	N	80	391_GPX 22 LN/LZ	3-4	510_ENX 16 EASY XT	557_ESCON2 Nano 24/2	
(shaft supported)			N	392_GPX 22 HP	4	511_ENX 16 EASY Abs.	557_ESCON2 Micro 60/5	
28_	Max. radial load [mm from flange]	N	3 [5]			512_ENX 16 EASY Abs. XT	563_EPOS4 Micro 24/5	
						519_ENX 16 RIO	564_EPOS4 Module 24/1.5	
Other specifications								
29_	Number of pole pairs		1					
30_	Number of commutator segments		9					
31_	Weight of motor	g	50					
32_	Typical noise level	dBA	40	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 566_EPOS4 Compact 24/1.5 567_EPOS4 Compact 50/5 569_EPOS4 50/5				