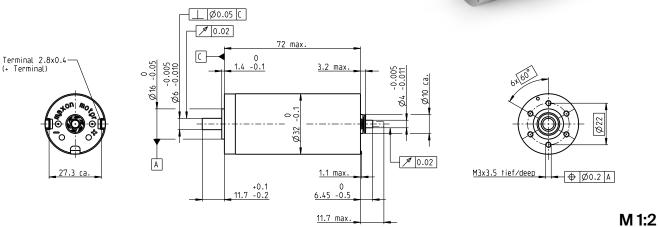
DCX 32 L Graphite Brushes DC motor Ø32 mm

Key Data: 70/110 W, 128 mNm, 11300 rpm



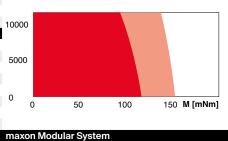


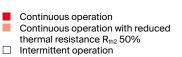
Motor Data								
	V	10	10	0.4	00	40	00	
1_ Nominal voltage	V	12	18	24	36	48	60	
2_ No load speed	rpm	7120	8630	8270	7940	7780	5840	
3_ No load current	mA	274	234	164	103	75.2	41.6	
4_ Nominal speed	rpm	6560	8070	7710	7410	7260	5290	
5_ Nominal torque (max. continuo	ous torque) mNm	89.4	101	108	119	123	128	
6_ Nominal current (max. continue	ous current) A	6.00	5.42	4.12	2.87	2.17	1.35	
7_ Stall torque	mNm	1730	2120	1980	2020	2000	1420	
8_ Stall current	Α	111	109	72.5	47.1	34.2	14.5	
9_ Max. efficiency	%	85	88	88	90	90	89	
10_ Terminal resistance	Ω	0.108	0.165	0.331	0.764	1.40	4.12	
11_ Terminal inductance	mH	0.034	0.053	0.103	0.254	0.473	1.31	
12_ Torque constant	mNm/A	15.6	19.5	27.3	42.9	58.5	97.5	
13_ Speed constant	rpm/V	612	490	350	223	163	97.9	
14_ Speed/torque gradient	rpm/mNm	4.24	4.15	4.24	3.96	3.92	4.14	
15_ Mechanical time constant	ms	3.44	3.30	3.24	3.19	3.11	3.11	
16_ Rotor inertia	gcm ²	77.6	75.9	72.8	76.8	75.9	71.7	
Thermal data Operating Range								

n [rpm] Winding 36 V

15000

Thermal data		
Thermal resistance housing-ambient	K/W	7.28
Thermal resistance winding-housing	K/W	2.3
Thermal time constant winding	s	42.2
Thermal time constant motor	S	837
Ambient temperature	°C	-40+100
Max. winding temperature	°C	155
Mechanical data ball bearings		
Max. speed	rpm	11300
Axial play	mm	00.1
Preload	N	7
Radial play	mm	0.02
Max. axial load (dynamic)	N	7
Max. force for press fits (static)	N	22.6
(static, shaft supported)	N	2510
Max. radial load [mm from flange]	N	65.3 [5]
	Thermal resistance housing-ambient Thermal resistance winding-housing Thermal time constant winding Thermal time constant motor Ambient temperature Max. winding temperature Mechanical data ball bearings Max. speed Axial play Preload Radial play Max. axial load (dynamic) Max. force for press fits (static)	Thermal resistance housing-ambient K/W Thermal resistance winding-housing K/W Thermal time constant winding s Thermal time constant motor s Ambient temperature °C Max. winding temperature °C Max. winding temperature remains Max. speed rpm Axial play mm Preload N Radial play mm Max. axial load (dynamic) N Max. force for press fits (static) N (static, shaft supported) N





28_	Max. radial load [mm from flange]	N	65.3 [5]	
	Other specifications			ma
29_	Number of pole pairs		1	ma
30_	Number of commutator segments		11	34
31_	Weight of motor	g	325	34
32_	Typical noise level	dBA	47	34
				25

1	maxon gear	Stages [opt.]	maxon sensor
11	347_GPX 32 A/C	1-2 [3]	433_ENX 10 EASY
325	348_GPX 32 LN/LZ	1-2 [3]	433_ENX 10 QUAD
47		2-3 [4]	434_ENX 10 EASY XT
	350_GPX 32 UP	1-4	436_ENX 16 EASY
	351_GPX 37 A	3	437_ENX 16 EASY XT
	352_GPX 37 LN/LZ	3	438_ENX 16 EASY Abs.
			439_ENX 16 EASY Abs. X7
			443_ENX 16 RIO
			470_ENC AEDL 5810
			471_ENC 30 HEDS 5540
			477 ENC 30 HEDI 5540

Details on catalog page 32 maxon motor control 487_ESCON Module 50/5 488_ESCON Module 50/8 HE 489_ESCON 50/5 489_ESCON 70/10 496_EPOS4 Mod./Comp. 50/5 497_EPOS4 Mod./Comp. 50/8 501_EPOS4 50/5 501_EPOS4 70/15 504_EPOS2 P 24/5

Configuration

Bearing: Ball bearings preloaded Commutation: 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