RE 36 Ø36 mm, Graphite Brushes, 70 Watt

K/W

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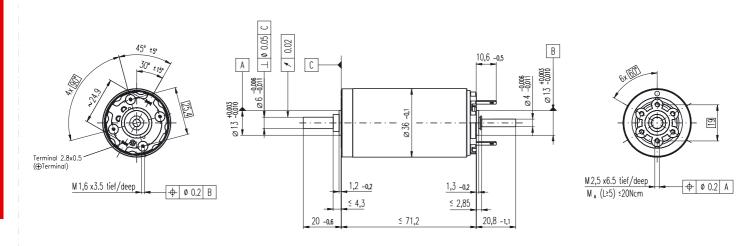
41

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M 1:2

	Stock program]Standard program Special program (on request!)	Orde	r Num	ber												
			118797	118798	118799	118800	118801	118802	118803	118804	118805	118806	118807	118808	118809	118810
Mc	otor Data															
1	Assigned power rating	W	70	70	70	70	70	70	70	70	70	70	70	70	70	70
2	Nominal voltage	Volt	18.0	24.0	32.0	42.0	42.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
3	No load speed	rpm	6610	6210	6790	7020	6340	6420	5220	4320	3450	2830	2280	1780	1420	1180
4	Stall torque	mNm	730	783	832	865	786	785	627	504	403	326	258	198	158	127
5	Speed / torque gradient	rpm / mNm	9.23	8.05	8.27	8.19	8.14	8.25	8.41	8.65	8.67	8.80	8.96	9.17	9.21	9.51
6	No load current	mA	153	105	89	70	61	55	42	33	25	20	15	12	9	7
7	Starting current	Α	28.6	21.5	18.7	15.3	12.6	11.1	7.22	4.80	3.06	2.04	1.30	0.784	0.501	0.334
8	Terminal resistance	Ohm	0.628	1.11	1.71	2.75	3.35	4.32	6.65	10.00	15.7	23.5	36.8	61.3	95.8	144
9	Max. permissible speed	rpm	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200
10	Max. continuous current	Α	3.18	2.44	1.99	1.59	1.44	1.27	1.03	0.847	0.679	0.556	0.445	0.346	0.277	0.226
11	Max. continuous torque	mNm	81	88.8	88.5	89.8	90.4	90.1	89.8	89.0	89.2	88.8	88.1	87.3	87.2	85.8
12	Max. power output at nominal voltage	W	123	125	146	157	129	131	84.9	56.4	36.0	23.9	15.2	9.09	5.78	3.82
13	Max. efficiency	%	84	85	86	86	86	86	85	84	82	81	79	77	75	72
14	Torque constant	mNm / A	25.5	36.4	44.5	56.6	62.6	70.7	86.9	105	131	160	198	253	315	380
15	Speed constant	rpm / V	375	263	215	169	152	135	110	90.9	72.7	59.8	48.2	37.8	30.3	25.1
16	Mechanical time constant	ms	6	6	6	6	6	6	6	6	6	6	6	6	6	6
17	Rotor inertia	gcm ²	60.2	67.7	65.2	65.4	65.6	64.6	63.3	61.5	61.3	60.3	59.2	57.8	57.5	55.7
18	Terminal inductance	mH	0.10	0.20	0.30	0.49	0.60	0.76	1.15	1.68	2.62	3.87	5.96	9.70	15.10	21.90
19	Thermal resistance housing-ambient	K/W	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4

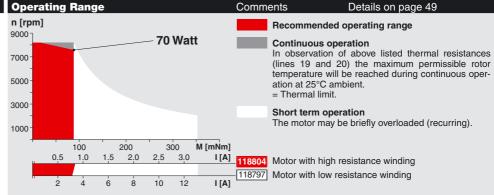
Sp	ecifications	
•	Axial play	0.05 - 0.15 mm
•	Max. ball bearing loads	
	axial (dynamic) not preloaded preloaded radial (5 mm from flange) Force for press fits (static) (static, shaft supported)	5.6 N 2.4 N 28 N 110 N 1200 N
•	Radial play ball bearing	0.025 mm
•	Ambient temperature range	-20 +100°C
•	Max. rotor temperature	+125°C
•	Number of commutator segments	s 13
•	Weight of motor	350 g
•	2 pole permanent magnet	
•	Values listed in the table are non	

Thermal resistance rotor-housing

21 Thermal time constant winding

For applicable tolerances see page 43.
For additional details please use the maxon selection program on the enclosed CD-ROM.

Tolerances may vary from the standard specification.



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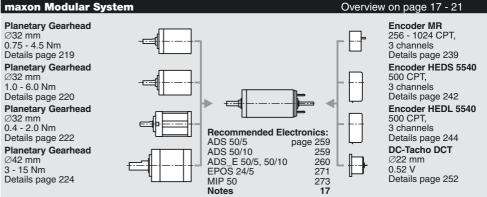
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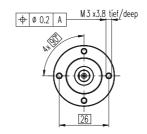
Planetary Gearhead GP 32 C Ø32 mm, 1.0 - 6.0 Nm

4.85 -0.8 4.85 -0.8 2.25 -0.7

21 -1,2

< L1

ISO 6411 - A1,25/2,65



Planetary Gearhead
Output shaft
Stainless steel, hardened
Shaft diameter as option
Bearing at output
Bearing at output
Radial play, 5 mm from flange
Axial play
Max. radial load, 12 mm from flange
Max. permissible axial load
Max. permissible force for press fits

stainless steel, hardened
8 mm
8 max. 0.14 mm
max. 0.4 mm
140 N
120 N
120 N

Max. permissible axial load
Max. permissible force for press fits
Sense of rotation, drive to output
Recommended input speed
Recommended temperature range
Extended range as option

< 8000 rpm -20 ... +100°C -35 ... +100°C

M 1:2

Low-noise version upon request

Technical Data

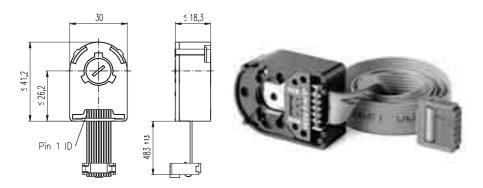
	- 0: 1								Low-noise	version upon	request			
	Stock program Standard program		Order	Numbe	r									
	Special program (on request!)		166930	166933	166938	166939	166944	166949	166954	166959	166962	166967	166972	166977
Ge	arhead Data													
1	Reduction		3.7 : 1	14:1	33 : 1	51 : 1	111 : 1	246 : 1	492 : 1	762 · 1	1181 · 1	1972 · 1	2829 : 1	4380 · 1
2	Reduction absolute		26/7	676/49	⁵²⁹ / ₁₆	17576/343	13824/	421824/1715					495144/175	
3	Max. motor shaft diameter	mm	6	6	3	6	4	4	3	3	4	4373	3	3
	Order Number		166931	166934		166940	166945	166950					166973	
1	Reduction		4.8 : 1	18:1		66 : 1	123 : 1	295 : 1	531 : 1					5247 : 1
2	Reduction absolute		24/5	624/35		16224/245	6877/56	101062/343					1907712/625	839523/160
3	Max. motor shaft diameter	mm	4	4		4	3	3	4	3	3	3	3	3
	Order Number		166932	166935		166941	166946	166951	166956	166961	166964	166969	166974	166979
1	Reduction		5.8 : 1	21:1		79 : 1	132 : 1	318 : 1	589 : 1	1093 : 1	1526 : 1	2362 : 1	3389 : 1	6285 : 1
2	Reduction absolute		23/4	299/14		3887/49	3312/25	389376/ 1225	20631/35	279841/256	9345024/	2066688/875	474513/140	6436343/
3	Max. motor shaft diameter	mm	3	3		3	3	4	3	3	4	3	3	3
	Order Number			166936		166942	166947	166952	166957		166965	166970	166975	
1	Reduction			23 : 1		86 : 1	159 : 1	411 : 1	636 : 1		1694 : 1	2548 : 1	3656 : 1	,
2	Reduction absolute			576/ ₂₅		14976/175	1587/10	359424/875	79488/125		1162213/686	7962624/3125	457056/125	
3	Max. motor shaft diameter	mm		4		4	3	4	3		3	4	3	
	Order Number			166937		166943	166948	166953	166958		166966	166971	166976	
1	Reduction			28 : 1		103 : 1	190 : 1	456 : 1	706 : 1		1828 : 1	2623 : 1		
2	Reduction absolute			138/5		3588/35	12167/64	89401/196	158171/224		2238912/	2056223/784	3637933/896	
3	Max. motor shaft diameter	mm		3		3	3	3	3		3	3	3	
4	Number of stages		1	2	2	3	3	4	4	4	5	5	5	5
5	Max. continuous torque	Nm	1	3	3	6	6	6	6	6	6	6	6	6
6	Intermittently permissible torque at gear output	Nm	1.25	3.75	3.75	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
7	Max. efficiency	%	80	75	75	70	70	60	60	60	50	50	50	50
8	Weight	g	118	162	162	194	194	226	226	226	258	258	258	258
9	Average backlash no load	0	1.4	1.6	1.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
10	Mass inertia	gcm ²	1.5	8.0	8.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
11	Gearhead length L1	mm	26.4	36.3	36.3	43.0	43.0	49.7	49.7	49.7	56.4	56.4	56.4	56.4

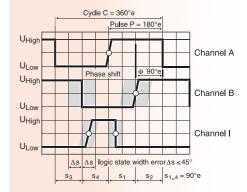
overall length overall length



Combination															
+ Motor	Page	+ Tacho / Encoder / Brake	Page	Overall le	ength [mi	n] = Motor	length + ge	earhead len	gth + (tacho	o / encoder	/ brake) + a	assembly pa	arts		
RE 25, 10 W	77			81.0	90.9	90.9	97.6	97.6	104.3	104.3	104.3	111.0	111.0	111.0	111.0
RE 25, 10 W	77	MR	238	92.0	101.9	101.9	108.6	108.6	115.3	115.3	115.3	122.0	122.0	122.0	122.0
RE 25, 10 W	77	Enc 22	240	95.1	105.0	105.0	111.7	111.7	118.4	118.4	118.4	125.1	125.1	125.1	125.1
RE 25, 10 W	77	HED_ 5540	242/244	101.8	111.7	111.7	118.4	118.4	125.1	125.1	125.1	131.8	131.8	131.8	131.8
RE 25, 10 W	77	DCT 22	252	103.3	113.2	113.2	119.9	119.9	126.6	126.6	126.6	133.3	133.3	133.3	133.3
RE 25, 20 W	78			81.0	90.9	90.9	97.6	97.6	104.3	104.3	104.3	111.0	111.0	111.0	111.0
RE 25, 20 W	78	MR	238	92.0	101.9	101.9	108.6	108.6	115.3	115.3	115.3	122.0	122.0	122.0	122.0
RE 25, 20 W	78	Enc 22	240	95.1	105.0	105.0	111.7	111.7	118.4	118.4	118.4	125.1	125.1	125.1	125.1
RE 25, 20 W	78	HED_ 5540	242/244	101.8	111.7	111.7	118.4	118.4	125.1	125.1	125.1	131.8	131.8	131.8	131.8
RE 25, 20 W	78	DCT 22	252	103.3	113.2	113.2	119.9	119.9	126.6	126.6	126.6	133.3	133.3	133.3	133.3
RE 25, 20 W	78	AB 40	279	115.1	125.0	125.0	131.7	131.7	138.4	138.4	138.4	145.1	145.1	145.1	145.1
RE 26, 18 W	79			85.3	95.2	95.2	101.9	101.9	108.6	108.6	108.6	115.3	115.3	115.3	115.3
RE 26, 18 W	79	MR	238	96.3	106.2	106.2	112.9	112.9	119.6	119.6	119.6	126.3	126.3	126.3	126.3
RE 26, 18 W	79	Enc 22	240	102.7	112.6	112.6	119.3	119.3	126.0	126.0	126.0	132.7	132.7	132.7	132.7
RE 26, 18 W	79	HED_ 5540	242/244	103.7	113.6	113.6	120.3	120.3	127.0	127.0	127.0	133.7	133.7	133.7	133.7
RE 26, 18 W	79	DCT 22	252	106.3	116.2	116.2	122.9	122.9	129.6	129.6	129.6	136.3	136.3	136.3	136.3
RE 30, 60 W	80			94.5	104.4	104.4	111.1	111.1	117.8	117.8	117.8	124.5	124.5	124.5	124.5
RE 30, 60 W	80	MR	239	105.9	115.8	115.8	122.5	122.5	129.2	129.2	129.2	135.9	135.9	135.9	135.9
RE 35, 90 W	81			97.4	107.3	107.3	114.0	114.0	120.7	120.7	120.7	127.4	127.4	127.4	127.4
RE 35, 90 W	81	MR	239	108.8	118.7	118.7	125.4	125.4	132.1	132.1	132.1	138.8	138.8	138.8	138.8
RE 35, 90 W		HED_ 5540	242/244	118.4	128.3	128.3	135.0	135.0	141.7	141.7	141.7	148.4	148.4	148.4	148.4
RE 35, 90 W	81	DCT 22	252	115.5	125.4	125.4	132.1	132.1	138.8	138.8	138.8	145.5	145.5	145.5	145.5
RE 35, 90 W	81	AB 40	279	133.5	143.4	143.4	150.1	150.1	156.8	156.8	156.8	163.5	163.5	163.5	163.5
RE 35, 90 W	81	HEDS 5540 / AB 40	242/279	150.6	160.5	160.5	167.2	167.2	173.9	173.9	173.9	180.6	180.6	180.6	180.6
RE 36, 70 W	82			97.7	107.6	107.6	114.3	114.3	121.0	121.0	121.0	127.7	127.7	127.7	127.7
RE 36, 70 W	82	MR	239	109.1	119.0	119.0	125.7	125.7	132.4	132.4	132.4	139.1	139.1	139.1	139.1
RE 36, 70 W	82	HED_ 5540	242/244		128.6	128.6	135.3	135.3	142.0	142.0	142.0	148.7	148.7	148.7	148.7
RE 36, 70 W	82	DCT 22	252	115.8	125.7	125.7	132.4	132.4	139.1	139.1	139.1	145.8	145.8	145.8	145.8

Encoder HEDL 5540, 500 Counts per turn, 3 Channels, with Line Driver RS 422



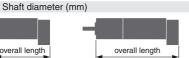


Stock program Standard program Special program (on request!)

> Counts per turn Number of channels Max. operating frequency (kHz)

Order Number											
110512	110514	110516	110518								
500	500	500	500								
3	3	3	3								
100	100	100	100								
0	4	_	0								







Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm]	/ • see: +	Gearhead		
77					75.3				
77	GP 26, 0.5 - 2.0 Nm	216			•				
77	GP 32, 0.75 - 6.0 Nm	218/220			•				
77	GP 32, 0.4 - 2.0 Nm	222			•				
78					75.3				
78	GP 26, 0.5 - 2.0 Nm	216			•				
78	GP 32, 0.75 - 6.0 Nm	218/220			•				
78	GP 32, 0.4 - 2.0 Nm	222			•				
79					77.2				
79	GP 26, 0.5 - 2.0 Nm	216			•				
79	GP 32, 0.75 - 6.0 Nm	218/220			•				
79	GP 32, 0.4 - 2.0 Nm	222			•				
81						91.9			
81	GP 32, 0.75 - 6.0 Nm	219/220				•			
81	GP 42, 3.0 - 15 Nm	224				•			
81			AB 40	279	124.1				
81	GP 32, 0.75 - 6.0 Nm	219/220	AB 40	279	•				
81	GP 42, 3.0 - 15 Nm	224	AB 40	279	•				
82						92.2			
82	GP 32, 0.75 - 6.0 Nm	219/220				•			
82	GP 32, 0.4 - 2.0 Nm	222				•			
82	GP 42, 3.0 - 15 Nm	224				•			
83						91.7			
83	GP 42, 3.0 - 15 Nm	224				•			
83	GP 52, 4.0 - 30 Nm	227				•			
83			AB 40	279	124.2				
83	GP 42, 3.0 - 15 Nm	224	AB 40	279	•				
83	GP 42, 4.0 - 30 Nm	227	AB 40	279	•				
84								241.5	
84	GP 81, 20 - 120 Nm	230						•	
84			AB 75	282				281.4	
84	GP 81, 20 - 120 Nm	230	AB 75	282				•	
	Page 77 77 77 77 78 78 78 78 78 79 79 79 81 81 81 81 82 82 82 82 82 82 83 83 83 83 83 83 83 84 84 84	Page 777 Page 778 Page 7	Page + Gearhead Page 77 GP 26, 0.5 - 2.0 Nm 216 77 GP 32, 0.75 - 6.0 Nm 218/220 77 GP 32, 0.4 - 2.0 Nm 222 78 GP 26, 0.5 - 2.0 Nm 216 78 GP 32, 0.75 - 6.0 Nm 218/220 78 GP 32, 0.75 - 6.0 Nm 222 79 GP 26, 0.5 - 2.0 Nm 222 79 GP 26, 0.5 - 2.0 Nm 216 79 GP 32, 0.75 - 6.0 Nm 218/220 79 GP 32, 0.75 - 6.0 Nm 219/220 81 GP 32, 0.75 - 6.0 Nm 224 81 GP 32, 0.75 - 6.0 Nm 219/220 81 GP 32, 0.75 - 6.0 Nm 219/220 81 GP 32, 0.75 - 6.0 Nm 219/220 82 GP 32, 0.75 - 6.0 Nm 219/220 82 GP 32, 0.75 - 6.0 Nm 224 82 GP 32, 0.75 - 6.0 Nm 224 82 GP 32, 0.75 - 6.0 Nm 229/220 82 GP 32, 0.4 - 2.0 Nm 222 82 GP 32, 0.4 - 30 Nm </td <td>Page + Gearhead Page + Brake 77 GP 26, 0.5 - 2.0 Nm 216 77 GP 32, 0.75 - 6.0 Nm 218/220 77 GP 32, 0.4 - 2.0 Nm 222 78 GP 26, 0.5 - 2.0 Nm 216 78 GP 32, 0.75 - 6.0 Nm 218/220 78 GP 32, 0.75 - 6.0 Nm 218/220 78 GP 32, 0.75 - 6.0 Nm 222 79 GP 26, 0.5 - 2.0 Nm 216 79 GP 32, 0.75 - 6.0 Nm 218/220 79 GP 32, 0.75 - 6.0 Nm 219/220 81 GP 32, 0.75 - 6.0 Nm 219/220 81 GP 42, 3.0 - 15 Nm 224 81 GP 32, 0.75 - 6.0 Nm 219/220 81 GP 42, 3.0 - 15 Nm 224 82 GP 32, 0.75 - 6.0 Nm 219/220 82 GP 32, 0.75 - 6.0 Nm 219/220 82 GP 32, 0.75 - 6.0 Nm 2219/220 82 GP 32, 0.4 - 2.0 Nm 222 82 GP 32, 0.4 - 2.0 Nm 224 83</td> <td>Page + Gearhead Page + Brake Page 77 GP 26, 0.5 - 2.0 Nm 216 218/220 277 77 GP 32, 0.75 - 6.0 Nm 218/220 222 78 GP 26, 0.5 - 2.0 Nm 216 28 78 GP 32, 0.75 - 6.0 Nm 218/220 28 78 GP 32, 0.75 - 6.0 Nm 218/220 29 79 GP 26, 0.5 - 2.0 Nm 216 222 79 GP 32, 0.75 - 6.0 Nm 218/220 29 81 GP 32, 0.75 - 6.0 Nm 218/220 29 81 GP 42, 3.0 - 15 Nm 224 AB 40 279 81 GP 32, 0.75 - 6.0 Nm 219/220 AB 40 279 81 GP 42, 3.0 - 15 Nm 224 AB 40 279 82 GP 32, 0.75 - 6.0 Nm 219/220 AB 40 279 82 GP 32, 0.75 - 6.0 Nm 219/220 AB 40 279 82 GP 32, 0.75 - 6.0 Nm 224 AB 40 279 82 GP 32, 0.75 - 6.0 Nm 219/220</td> <td>Page + Gearhead Page + Brake Page Overall length [mm] 77 GP 26, 0.5 - 2.0 Nm 216 ● 77 GP 32, 0.75 - 6.0 Nm 218/220 ● 78 GP 32, 0.4 - 2.0 Nm 222 ● 78 GP 32, 0.75 - 6.0 Nm 218/220 ● 78 GP 32, 0.75 - 6.0 Nm 218/220 ● 79 GP 32, 0.4 - 2.0 Nm 222 ● 79 GP 32, 0.75 - 6.0 Nm 218/220 ● 79 GP 32, 0.75 - 6.0 Nm 218/220 ● 81 GP 32, 0.75 - 6.0 Nm 219/220 ● 81 GP 42, 3.0 - 15 Nm 224 AB 40 279 ■ 81 GP 32, 0.75 - 6.0 Nm 219/220 AB 40 279 ● 81 GP 32, 0.75 - 6.0 Nm 219/220 AB 40 279 ● 82 GP 32, 0.75 - 6.0 Nm 219/220 AB 40 279 ● 82 GP 32, 0.75 - 6.0 Nm 219/220 AB 40 279 ● 82 GP 32, 0.75 - 6.0 Nm 224 AB 40 279 ● <</td> <td>Page + Gearhead Page + Brake Page 75.3 77</td> <td>Page + Gearhead</td> <td> Page + Gearhead Page + Brake Page Overall length [mm] - see: + Gearhead 75.3 </td>	Page + Gearhead Page + Brake 77 GP 26, 0.5 - 2.0 Nm 216 77 GP 32, 0.75 - 6.0 Nm 218/220 77 GP 32, 0.4 - 2.0 Nm 222 78 GP 26, 0.5 - 2.0 Nm 216 78 GP 32, 0.75 - 6.0 Nm 218/220 78 GP 32, 0.75 - 6.0 Nm 218/220 78 GP 32, 0.75 - 6.0 Nm 222 79 GP 26, 0.5 - 2.0 Nm 216 79 GP 32, 0.75 - 6.0 Nm 218/220 79 GP 32, 0.75 - 6.0 Nm 219/220 81 GP 32, 0.75 - 6.0 Nm 219/220 81 GP 42, 3.0 - 15 Nm 224 81 GP 32, 0.75 - 6.0 Nm 219/220 81 GP 42, 3.0 - 15 Nm 224 82 GP 32, 0.75 - 6.0 Nm 219/220 82 GP 32, 0.75 - 6.0 Nm 219/220 82 GP 32, 0.75 - 6.0 Nm 2219/220 82 GP 32, 0.4 - 2.0 Nm 222 82 GP 32, 0.4 - 2.0 Nm 224 83	Page + Gearhead Page + Brake Page 77 GP 26, 0.5 - 2.0 Nm 216 218/220 277 77 GP 32, 0.75 - 6.0 Nm 218/220 222 78 GP 26, 0.5 - 2.0 Nm 216 28 78 GP 32, 0.75 - 6.0 Nm 218/220 28 78 GP 32, 0.75 - 6.0 Nm 218/220 29 79 GP 26, 0.5 - 2.0 Nm 216 222 79 GP 32, 0.75 - 6.0 Nm 218/220 29 81 GP 32, 0.75 - 6.0 Nm 218/220 29 81 GP 42, 3.0 - 15 Nm 224 AB 40 279 81 GP 32, 0.75 - 6.0 Nm 219/220 AB 40 279 81 GP 42, 3.0 - 15 Nm 224 AB 40 279 82 GP 32, 0.75 - 6.0 Nm 219/220 AB 40 279 82 GP 32, 0.75 - 6.0 Nm 219/220 AB 40 279 82 GP 32, 0.75 - 6.0 Nm 224 AB 40 279 82 GP 32, 0.75 - 6.0 Nm 219/220	Page + Gearhead Page + Brake Page Overall length [mm] 77 GP 26, 0.5 - 2.0 Nm 216 ● 77 GP 32, 0.75 - 6.0 Nm 218/220 ● 78 GP 32, 0.4 - 2.0 Nm 222 ● 78 GP 32, 0.75 - 6.0 Nm 218/220 ● 78 GP 32, 0.75 - 6.0 Nm 218/220 ● 79 GP 32, 0.4 - 2.0 Nm 222 ● 79 GP 32, 0.75 - 6.0 Nm 218/220 ● 79 GP 32, 0.75 - 6.0 Nm 218/220 ● 81 GP 32, 0.75 - 6.0 Nm 219/220 ● 81 GP 42, 3.0 - 15 Nm 224 AB 40 279 ■ 81 GP 32, 0.75 - 6.0 Nm 219/220 AB 40 279 ● 81 GP 32, 0.75 - 6.0 Nm 219/220 AB 40 279 ● 82 GP 32, 0.75 - 6.0 Nm 219/220 AB 40 279 ● 82 GP 32, 0.75 - 6.0 Nm 219/220 AB 40 279 ● 82 GP 32, 0.75 - 6.0 Nm 224 AB 40 279 ● <	Page + Gearhead Page + Brake Page 75.3 77	Page + Gearhead	Page + Gearhead Page + Brake Page Overall length [mm] - see: + Gearhead 75.3

*Pin allocation see page 245

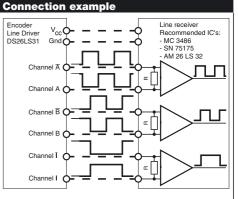
Technical Data		Pin Allocation for I	motor RE 75
Supply voltage	5 V ± 10 %		
Output signal drivers used:	EIA Standard RS 422 DS26LS31		Flanged connector Type SOURIAU 80 1 V _{CC}
Phase shift Φ (nominal)	90°e		2 N.C. (do not cor
Logic state width s	min. 45°e	20 10 012 07	3 GND
Signal rise time (typical at $C_L = 25 \text{ pF}$, $R_L = 2.7 \text{ k}$	Ω, 25°C) 180 ns	30 011 06	4 N.C. (do not con 5 Channel I (Inde 6 Channel I
Signal fall time (typical at $C_L = 25 \text{ pF}$, $R_L = 2.7 \text{ k}$	xΩ, 25°C) 40 ns		7 Channel B 8 Channel B
Index pulse width (nominal)	90°e		9 Channel <u>A</u> 10 Channel A
Operating temperature range	0 +70°C		11 N.C. (do not cor
Moment of inertia of code whee	I ≤ 0.6 gcm ²		12 N.C. (do not cor
Max. angular acceleration	250 000 rad s ⁻²		recommended cab Type SOURIAU 8G
Output current per channel	min20 mA, max. 20 mA		(metal, straight exi
Option 1000 c	ounts per turn, 2 channel		maxon Art. No. 26 8G-V2-12S (plastic
			maxon Art. No. 26



- Flanged connector
 Type SOURIAU 8GM-QL2-12P
 1 Vcc
 2 N.C. (do not connect)
 3 GND
 4 N.C. (do not connect)
 5 Channel I (Index)
 6 Channel I

- 6 Channel I
 7 Channel B
 8 Channel B
 9 Channel A
 10 Channel A
 11 N.C. (do not connect)
 12 N.C. (do not connect)
 recommended cable plug
 Type SOURIAU 8GM-DM2-12S

(metal, straight exit: maxon Art. No. 2675.538) or 8G-V2-12S (plastic, 90° angle: maxon Art. No. 2675.539)



Terminal resistance R = typical 100 Ω