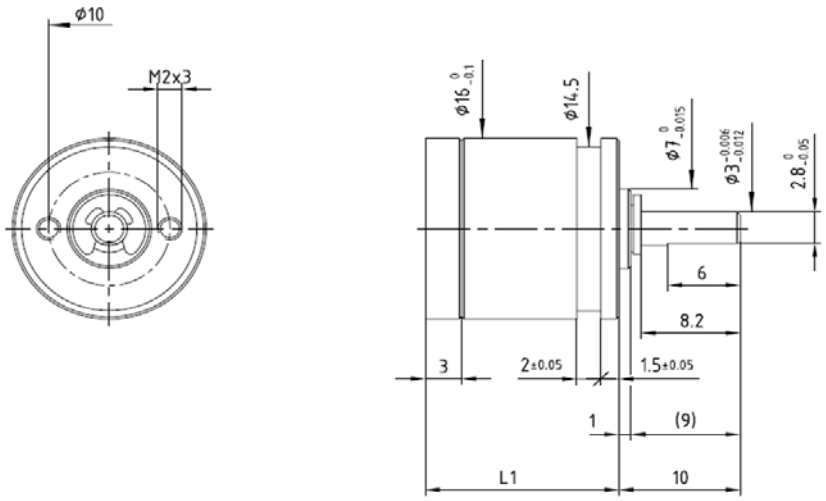
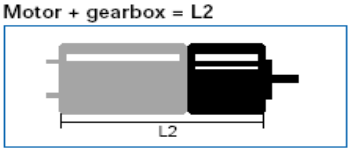
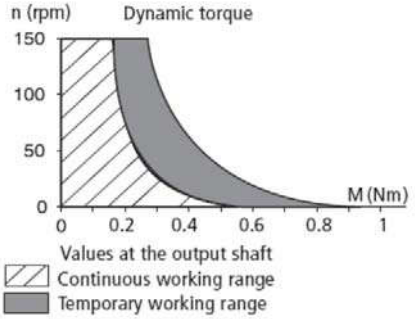


Ratio ****		5.5	22	30.2	88	121	166	352	484	665.5	915
1	Number of gear stages	1	2	2	3	3	3	4	4	4	4
2	Direction of rotation	=	=	=	=	=	=	=	=	=	=
3	Efficiency	0.85	0.75	0.75	0.65	0.65	0.65	0.55	0.55	0.55	0.55
4	L1 (mm)	16	20.1	20.1	24.2	24.2	24.2	28.3	28.3	28.3	28.3
5	Weight g (oz)	10 (0.352)	13 (0.458)	13 (0.458	16 (0.564)	16 (0.564)	16 (0.564)	19 (0.670)	19 (0.670)	19 (0.670)	19 (0.670)
6	Available with Motor - L2 = Length with motor (mm)										
	16C18……..30	31.7	35.8	35.8	39.9	39.9	39.9	44	44	44	44
	16N28……..201	44	48.1	48.1	52.2	52.2	52.2	56.3	56.3	56.3	56.3
	16G88……..1	44	48.1	48.1	52.2	52.2	52.2	56.3	56.3	56.3	56.3
	17S78……..1	34.7	38.8	38.8	42.9	42.9	42.9	47	47	47	47
	17N78……..1	41.9	46	46	50.1	50.1	50.1	54.2	54.2	54.2	54.2
	P110……..12	35	39.1	39.1	43.2	43.2	43.2	47.3	47.3	47.3	47.3

Characteristics			R16 • 0 • ····	R16 2R • 0 • ····
7	Shaft Bearings		Sleeve	Ball Bearing
8	Maximum Static Torque	Nm (oz-in)	1 (141)	1 (141)
9	Maximum Radial Force			
	@ 8mm from mounting face	N (lb)	5 (1.12)	20 (4.5)
10	Maximum Axial force	N (lb)	8 (1.8)	10 (2.2)
11	Maximum press fit force	N (lb)	100 (23)	100 (23)
12	Average Backlash @ no-load		1.25°	1.25°
13	Average Backlash @ 3 Nm		2°	2°
	Shaft play:			
14	-radial	µm	≤ 20	≤ 10
15	-axial	µm	50-150	≤ 50
16	Maximum Recommended Input speed	rpm	7500	7,500
17	Operating Temperature Range:	°C (°F)	-30 to +85 (-22 to +185)	

Motor + gearbox = L2





(C) 2013. Portescap. Specifications subject to change without notice.