

Technical Data Sheet
Gearbox
INLINE GEARBOX



MODEL	412A	
Ø OUTPUT SHAFT	25	mm
APPROXIMATE RATIO	14	
EXACT RATIO	13.68	
OUTPUT SPEED	104	RPM
EXACT OUTPUT SPEED	107	RPM
INPUT POWER	1.50	KW
INPUT ROTATION	1400	RPM
INPUT PAM	90B14	
OUTPUT TORQUE	134.37	N.m
NOMINAL TORQUE	144.00	N.m
NOMINAL POWER	1.6	KW
SERVICE FACTOR	1.07	
DYNAMIC EFFICIENCY	0.96	

Oil Quantity (L)

B3/H1	B6/H4	B7/H3	B8/H2	V5/H5	V6/H6
0.25	0.35	0.4	0.45	0.4	0.5

Radial and Axial Loads



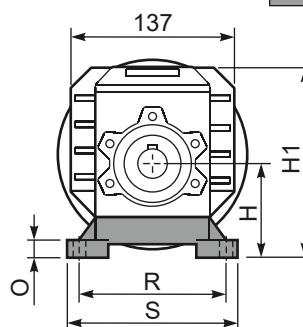
n_2 [min-1]	FA [N]	FR [N]
300	310	1550
200	360	1800
120	448	2240
70	540	2700

Universal Motors S.A.
Rua Comendador Brandão, 484
4495-375 Póvoa de Varzim
geral@universalmotors.pt
TEL.: 252 299 080

Universal Motors UK, Ltd
Unit E2, Meltham Mills Road
West Yorkshire HD9 4AR
enquiries@universalmotors-group.co.uk
TEL.: +44(0) 1484660222

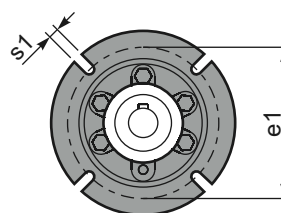
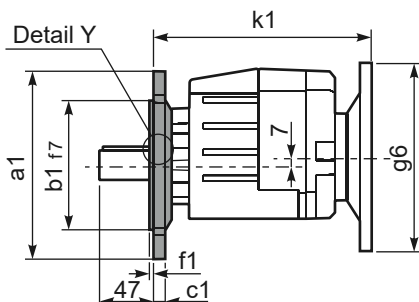
Universal Motors SL
C/La Habana n.6 nave 4 PI Camporoso
28806 Alcala de Henares
info@universalmotors-group.es
TEL.: 918 864 213

Gearbox weight peso riduttore	With flange	5.7 kg
	With feet	5.9 Kg



Feet Code	Market reference	G	H	R	L	L1	S	H1	O	ø	S2 only with motor flange	B5 max. Flange	kit code	
B1	112	18	85	110	87	50	130	167.5	15	-	8 33	80/90B5 100/112B5	-	KC35.9.021
B2	212/3	18	100	130	107.5	60	155	182.5	17	11	18	100/112B5	-	KC40.9.025
S1	17	18	75	110	90÷110	50	145	155.5	15	9	18 43	80/90B5 100/112B5	-	KC40.9.022
S2	27	25	90	110	130	-	145	172.5	20	9	3 28	80/90B5 100/112B5	-	KC40.9.024
H2	022-223	25	100	110	115	-	145	182.5	20	9	18	100/112B5	-	KC40.9.026
M1	42/3	25	80	110÷120	85	-	145	162.5	15	9	13 38	80/90B5 100/112B5	-	KC40.9.023

 Most popular types
Tipi più diffusi

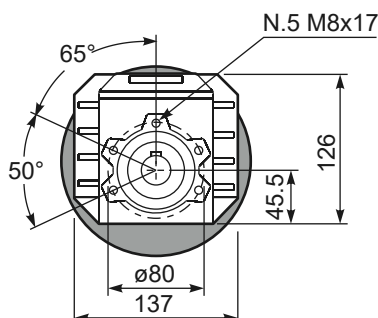
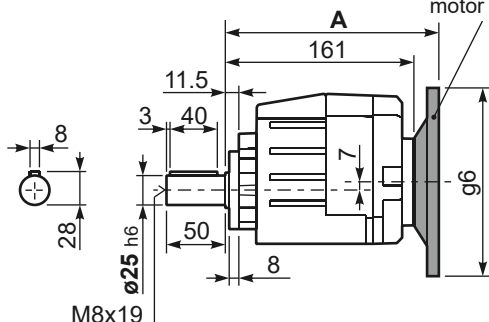


	Shaft - d1	p1	h1	x
Standard	ø 25x50	8	28	M8x19
On request A richiesta	ø 16x40	5	18	M6x16
	ø 19x40	6	21.5	M6x16
	ø 20x40	6	22.5	M8x19
	ø 24x50	8	27	M8x19

a1 ø	b1	c1	e1	f1	s1	kit code
120	80	10	100	3	7	KC40.9.010
140	95	10	115	3	9	KC40.9.011
160	110	10	130	3.5	9	KC40.9.012
200	130	10	165	3.5	11	KC40.9.013
250	180	11.5	215	3.5	14	KC40.9.014

With flange and feet only on request. Ask for compatibility

Suggested B14
motor flanges



Technical drawing of a shaft-hub assembly. The drawing shows a shaft with a diameter of $\varnothing 66$ h8 and a length of 172. The shaft is connected to a hub with a bore diameter of 60. The hub has a total length of 172, with a section of 37 and another of 78. The shaft has a section of 35 and a section of 30. The hub has a section of 2.5 and a section of 6. The shaft is labeled "Input shaft" and "Albero entrata". The hub is labeled "M10x18" and "M6x16". The shaft has a diameter of $\varnothing 19$ h6 at the end. The hub has a diameter of 21.5 at the end.

B5 Motor Flanges	A	C _{max}	g6	k1	kit code
63 B5	181.5	177	140	185.5	K063.4.041
71 B5	179.5	187	160	183.5	K063.4.042
80/90 B5	181.5	207	200	185.5	K063.4.043
100/112 B5	196.5	232	250	200.5	KC40.4.043

B14 Motor Flanges	A	C_{max}	g6	k1	kit code
71 B14	179.5	159.5	105	183.5	K063.4.047
80 B14	181.5	167	120	185.5	K063.4.046
90 B14	181.5	177	140	185.5	K063.4.041
100/112 B14	196.5	187	160	200.5	KC40.4.041