

Technical Data Sheet
Gearbox
INLINE GEARBOX



MODEL	413A
Ø OUTPUT SHAFT	25 mm
APPROXIMATE RATIO	102
EXACT RATIO	102.89
OUTPUT SPEED	14 RPM
EXACT OUTPUT SPEED	14 RPM
INPUT POWER	0.09 KW
INPUT ROTATION	1400 RPM
INPUT PAM	56B14
OUTPUT TORQUE	59.37 N.m
NOMINAL TORQUE	180.00 N.m
NOMINAL POWER	0.27 KW
SERVICE FACTOR	3.00
DYNAMIC EFFICIENCY	0.94

Oil Quantity (L)

B3/H1	B6/H4	B7/H3	B8/H2	V5/H5	V6/H6
0.3	0.35	0.45	0.45	0.45	0.55

Radial and Axial Loads



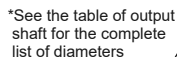
n_2 [min-1]	F_A [N]	F_R [N]
300	310	1550
200	360	1800
120	448	2240
70	540	2700

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

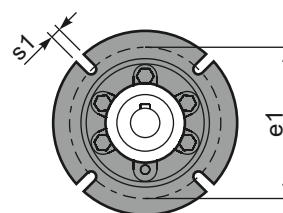
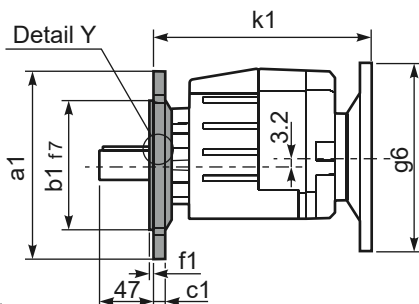
Universal Motors SL
C/La Habana n.6 nave 4 PI Camporoso
28806 Alcala de Henares
info@universalmotors-group.es
TEL.: 918 864 213

Gearbox weight peso riduttore	With flange	6.1 kg
	With feet	6.3 Kg



Feet Code	Market reference	G	H	R	L	L1	S	H1	O	øI	S2 only with motor flange	B5 max. Flange	kit code
B1	112	18	85	110	87	50	130	167.5	15	-	-	-	KC35.9.021
B2	212/3	18	100	130	107.5	60	155	182.5	17	11	-	-	KC40.9.025
S1	17	18	75	110	90÷110	50	145	155.5	15	9	2 80/90B5	-	KC40.9.022
S2	27	25	90	110	130	-	145	172.5	20	9	-	-	KC40.9.024
H2	022-223	25	100	110	115	-	145	182.5	20	9	-	-	KC40.9.026
M1	42/3	25	80	110÷120	85	-	145	162.5	15	9	-	-	KC40.9.023

 Most popular types
Tipi più diffusi

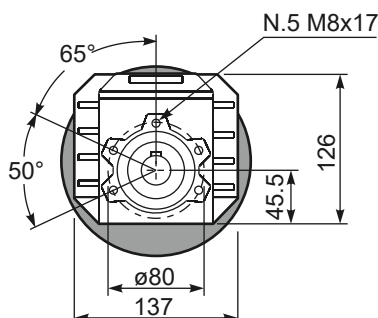
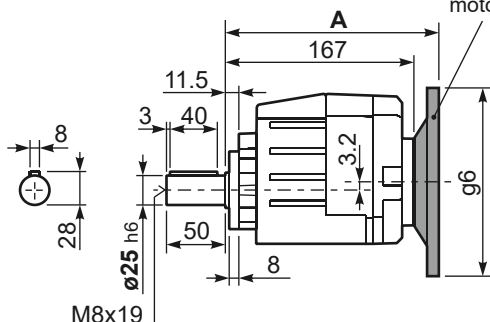


	Shaft - d1	p1	h1	x
Standard	ø 25x50	8	28	M8x19
On request A richiesta	ø 16x40	5	18	M6x16
	ø 19x40	6	21.5	M6x16
	ø 20x40	6	22.5	M8x19
	ø 24x50	8	27	M8x19

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 an feet only on request. Ask for compatibility

Suggested B14
motor flanges



Technical drawing of a shaft-hub assembly. The drawing shows a side view of the assembly with the following dimensions and labels:

- Input shaft / Albero entrata:** The shaft on the right, with a diameter of $\varnothing 14$ h6.
- M10x18:** A screw on the left side of the hub.
- 60:** The inner diameter of the hub.
- 177:** The total length of the assembly.
- 25:** The length of the input shaft.
- 20:** The length of the hub.
- 2.5:** The thickness of the input shaft's shoulder.
- 5:** The radius of the input shaft's shoulder.
- 16:** The radius of the input shaft's end.
- M5x13:** A screw on the right side of the hub.
- 37:** The distance from the left end of the hub to the center of the input shaft.
- 78:** The distance from the center of the input shaft to the right end of the hub.

B5 Motor Flanges	A	C _{max}	g6	k1	kit code
63 B5	185.5	173.2	140	189.5	K050.4.041
71 B5	183	183.2	160	187	K050.4.042

B14 Motor Flanges	A	C_{max}	g6	k1	kit code
56 B14	183	143.2	80	187	KC40.4.049
63 B14	185.5	148.2	90	189.5	K050.4.047
71 B14	183	155.7	105	187	K050.4.045