

Technical Data Sheet
Gearbox
INLINE GEARBOX



MODEL	612A
Ø OUTPUT SHAFT	35 mm
APPROXIMATE RATIO	30
EXACT RATIO	29.41
OUTPUT SPEED	49 RPM
EXACT OUTPUT SPEED	50 RPM
INPUT POWER	2.20 KW
INPUT ROTATION	1400 RPM
INPUT PAM	100B14
OUTPUT TORQUE	423.67 N.m
NOMINAL TORQUE	450.00 N.m
NOMINAL POWER	2.3 KW
SERVICE FACTOR	1.05
DYNAMIC EFFICIENCY	0.96

Oil Quantity (L)

B3/H1	B6/H4	B7/H3	B8/H2	V5/H5	V6/H6
0.8	1	1.2	1.2	1.3	1.35

Radial and Axial Loads



n_2 [min-1]	F_A [N]	F_R [N]
300	560	2800
200	640	3200
120	760	3800
15	1300	6500

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	14.1 kg
	With feet	14.5 kg



Feet Code	Market reference	G	H	R	L	S	H1	O	Øl	S2 only with motor flange	B5 max. Flange	kit code
B4	412/3	20	130	180	149.5	216	242	18	14	-	-	KC60.9.024
S4	47-57	30	115	135	165	170	227	25	14	13 132B5	-	KC50.9.022
M3	62/3	35	120	170+185	110	230	232	20	14	8 132B5	-	KC60.9.023
S7	77	35	140	170	205	204	252	8	14	-	-	KC60.9.029LM
H4	024-243	35	155	170	150	225	267	30	14	-	-	KC60.9.025

 Most popular types
Tipi più diffusi

Technical drawing of the KC50.9.011 motor showing front, side, and detail views with dimensions.

Front View Dimensions:

- Overall width: 8.5 with KC50.9.011
- Mounting flange thickness: 2.5
- Flange height: h1
- Flange diameter: d1
- Shaft diameter: p1
- Shaft end view: x

Side View Dimensions:

- Overall height: 96
- Mounting flange thickness: f1
- Flange height: a1
- Flange diameter: b1 f7
- Shaft diameter: 67.5
- Shaft end view: c1
- Shaft length: 61.5 with KC50.9.011

Detail Y: A circular detail view of the mounting flange, showing the flange thickness (2.5) and the flange diameter (d1).

***Available output shaft / Albero di uscita**

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	Shaft - d1	p1	h1	x
Standard	ø 35x70	10	38	M10x22
On request A richiesta	ø 28x60	8	31	M8x20
	ø 30x60	8	33	M10x22
	ø 38x70	10	41	M10x25
	ø 40x80	12	43	M12x28

Available output flanges / flange di uscita

a1 Ø	b1	c1	e1	f1	s1	kit code
160	110	14	130	3.5	11	KC50.9.011
200	130	13	164	3.5	11	KC50.9.012
250	180	15.5	215	4	14	KC50.9.013

With flange and feet only on request. Ask for compatibility

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Technical drawing of the B14 motor flange assembly, showing dimensions and suggested motor flanges.

Dimensions:

- Overall length: 219
- Mounting flange thickness: 96
- Central shaft diameter: $\varnothing 35$ h6
- Motor flange side length: 123
- Motor flange central opening diameter: 69.5
- Mounting flange side length: 181.5
- Mounting flange thickness: 69.5
- Motor flange thickness: 15.5
- Motor flange central opening diameter: 60
- Motor flange central opening diameter: 70
- Motor flange central opening diameter: 16.3
- Motor flange central opening diameter: 12.5
- Motor flange central opening diameter: 5
- Motor flange central opening diameter: 10
- Motor flange central opening diameter: 38
- Motor flange central opening diameter: 10x22
- Motor flange central opening diameter: 65°
- Motor flange central opening diameter: 50°

Suggested B14 motor flanges

Technical drawing of the 1000 series ball bearing unit, showing front and side views with dimensions:

- Front View Dimensions:**
 - Overall width: 231
 - Shaft diameter: $\varnothing 106 \text{ h8}$
 - Internal bore diameter: 124
 - Internal bore offset: 78
 - Internal bore offset (bottom): 63
 - Internal bore offset (right): 83
- Side View Dimensions:**
 - Overall height: 50
 - Shaft diameter: $\varnothing 24 \text{ h6}$
 - Internal bore offset (right): 40
 - Internal bore offset (bottom): 5
 - Internal bore offset (right): 27
 - Internal bore offset (bottom): 8
 - Internal bore offset (right): 27
- Thread Specifications:**
 - Top: M12x20
 - Bottom: M6x16

B5 Motor Flanges	A	C_{max}	g6	k1	kit code	k1 with KC50.9.011	B14 Motor Flanges	A	C_{max}	g6	k1	kit code	k1 with KC50.9.011
71 B5	237.5	251.3	160	240	K023.4.041	246	80 B14	239.5	231.3	120	242	K085.4.046	248
80/90 B5	239.5	271.3	200	242	K023.4.042	248	90 B14	239.5	241.3	140	242	K085.4.045	248
100/112 B5	248.5	296.3	250	251	K023.4.043	257	100/112 B14	248.5	251.3	160	251	K085.4.047	257
132 B5	269.5	321.3	300	269	KC51.4.043	275	132 B14	269.5	271.3	200	269	KC51.4.041	275