

Technical Data Sheet
Gearbox
INLINE GEARBOX



MODEL	612A
Ø OUTPUT SHAFT	35 mm
APPROXIMATE RATIO	49
EXACT RATIO	49.00
OUTPUT SPEED	30 RPM
EXACT OUTPUT SPEED	30 RPM
INPUT POWER	1.10 KW
INPUT ROTATION	1400 RPM
INPUT PAM	90B14
OUTPUT TORQUE	352.94 N.m
NOMINAL TORQUE	400.00 N.m
NOMINAL POWER	1.2 KW
SERVICE FACTOR	1.09
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	øI	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: Shows the motor's base with dimensions $p1$ and x .

Side View: Shows the motor's profile with dimensions $h1$, $d1$, 2.5 , 8.5 with KC50.9.011, $a1$, $b1$ f7, $f1$, $c1$, 67.5 , 61.5 with KC50.9.011, 16.3 , 96 , and $K1$.

Detail Y: A circular detail view showing the motor's shaft and mounting flange.

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

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

	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

With flange and feet
only on request.
Ask for compatibility

B14

Riduttore base

Suggested B14 motor flanges

Dimensions:

- Total length: 219
- Flange thickness: g6
- Motor body length: 15.5
- Motor body diameter: Ø35 h6
- Motor body width: 70
- Motor body height: 12.5
- Motor body mounting holes: M10x22
- Motor body mounting hole distance: 38
- Motor body mounting hole diameter: 10
- Motor body mounting hole position: 5
- Motor body mounting hole offset: 60
- Motor body mounting hole offset: 16.3
- Motor body mounting hole offset: 69.5
- Motor body mounting hole offset: 181.5
- Motor body mounting hole offset: 65°
- Motor body mounting hole offset: 50°
- Motor body mounting hole offset: N.5 M10x17
- Motor body mounting hole offset: Ø123

[illegible]

B5 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
80/90 B5	239.5	271.3	200	242	K023.4.042	248
100/112 B5	248.5	296.3	250	251	K023.4.043	257
132 B5	269.5	321.3	300	269	KC51.4.043	275