

Technical Data Sheet
Gearbox
INLINE GEARBOX



MODEL	311A	
Ø OUTPUT SHAFT	14	mm
APPROXIMATE RATIO	1.5	
EXACT RATIO	1.57	
OUTPUT SPEED	973	RPM
EXACT OUTPUT SPEED	930	RPM
INPUT POWER	0.25	KW
INPUT ROTATION	1400	RPM
INPUT PAM	71B14	
OUTPUT TORQUE	2.46	N.m
NOMINAL TORQUE	13.00	N.m
NOMINAL POWER	1.2	KW
SERVICE FACTOR	4.80	
DYNAMIC EFFICIENCY	0.92	

Oil Quantity (L)

B3/H1	B6/H4	B7/H3	B8/H2	V5/H5	V6/H6
0.1	0.1	0.1	0.1	0.1	0.1

Radial and Axial Loads



n_2 [min-1]	FA [N]	FR [N]
700	120	640
400	160	800
200	200	1020
140	225	1120

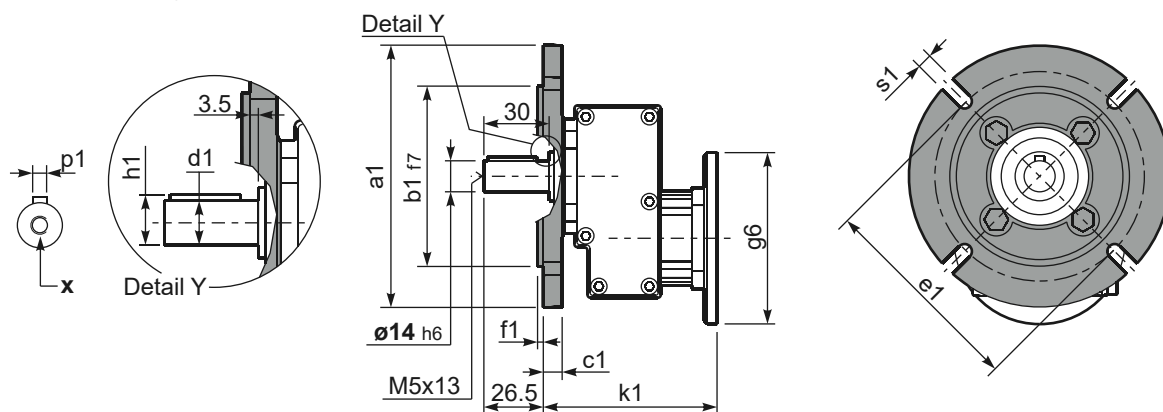
Universal Motors S.A.
Rua Comendador Brandão, 484
4495-375 Póvoa de Varzim
geral@universalmotors.pt
TEL.: 252 299 080

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

P311-**F** ... Output flange
flange di uscita

Gearbox weight peso riduttore	2.50 kg
---	----------------



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

	Shaft - d1	p1	h1	x
Standard	ø 14x30	5	16	M5x13
On request A richiesta	ø 19x40	6	21.5	M6x16
	ø 24x40	8	27	M6x16

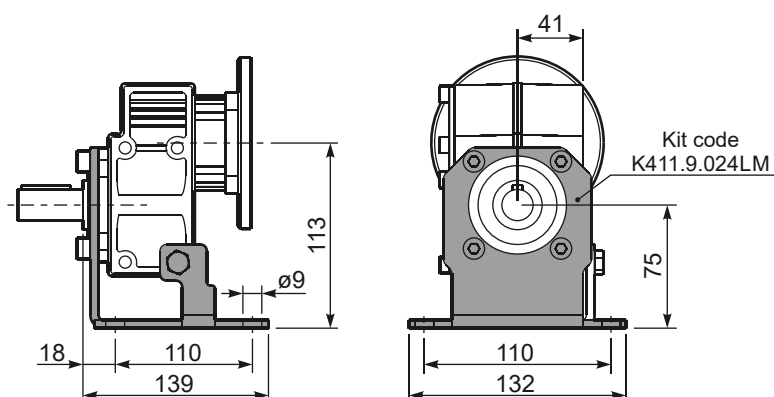
Available output flanges / flange di uscita

a1 Ø	b1	c1	e1	f1	s1	kit code
120	80	11.5	100	3	9*	KC30.9.010
140	95	11.5	115	3	9	KC30.9.011
160	110	11.5	130	3.5	9	KC30.9.012
200	130	11.5	165	3.5	11	KC30.9.013

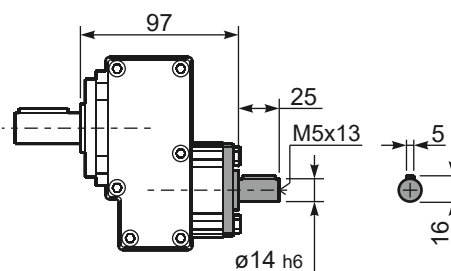
*Holes position
posizione fori



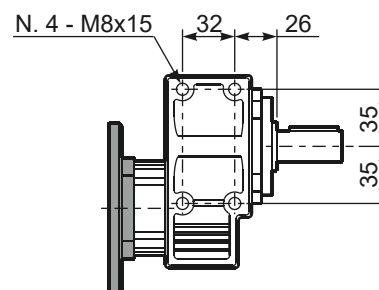
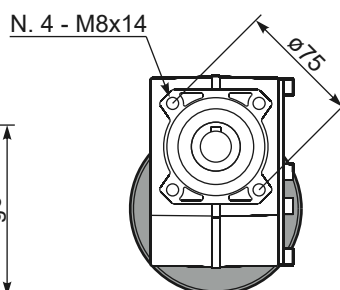
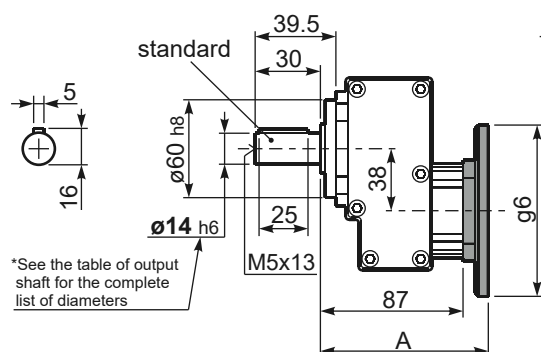
P311-**H1**... With feet
Con piedini



R311-N...	Input Shaft Albero in entrata
------------------	----------------------------------



P311-N...	Basic gearbox Riduttore base
-----------	---------------------------------



B14 Motor Flanges	A	g6	k1	kit code
56 B14	103	80	106.5	KC40.4.049
63 B14	105.5	90	109	K050.4.047
71 B14	103	105	106.5	K050.4.045

B5 Motor Flanges	A	g6	k1	kit code
63 B5	105.5	138	109	K050.4.041
71 B5	103	160	106.5	K050.4.042