

Technical Data Sheet
Gearbox
INLINE GEARBOX



MODEL	302A
Ø OUTPUT SHAFT	20 mm
APPROXIMATE RATIO	7
EXACT RATIO	7.20
OUTPUT SPEED	209 RPM
EXACT OUTPUT SPEED	203 RPM
INPUT POWER	1.50 KW
INPUT ROTATION	1400 RPM
INPUT PAM	90B14
OUTPUT TORQUE	70.72 N.m
NOMINAL TORQUE	70.00 N.m
NOMINAL POWER	1.5 KW
SERVICE FACTOR	1.00
DYNAMIC EFFICIENCY	0.96

Oil Quantity (L)

B3/H1	B6/H4	B7/H3	B8/H2	V5/H5	V6/H6
0.15	0.15	0.15	0.15	0.15	0.15

Radial and Axial Loads



n_2 [min-1]	FA [N]	FR [N]
300	140	700
200	185	924
120	270	1350
70	340	1700

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

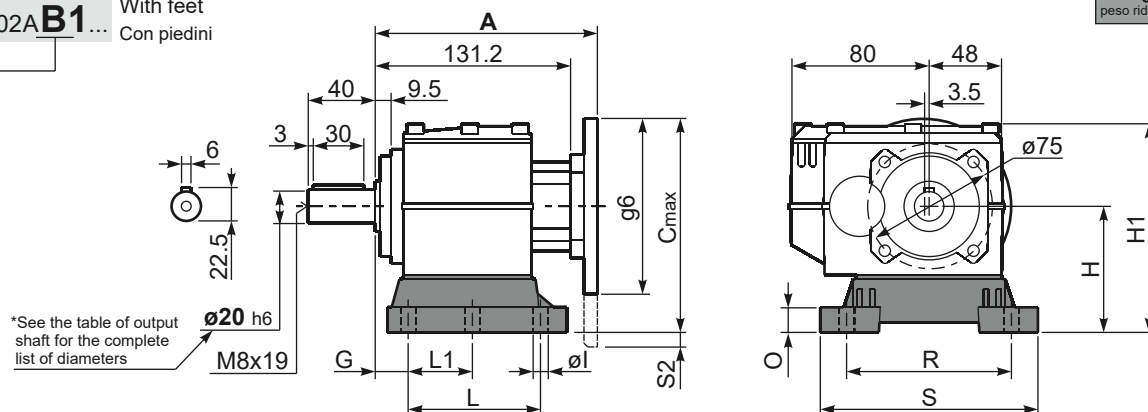
Universal Motors UK, Ltd
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TEL.: +44(0) 1484660222

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C/La Habana n.6 nave 4 PI Camporoso
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Gearbox weight
peso riduttore

With flange **3.5 kg**
With feet **4.0 Kg**

P302A**B1**... With feet
Con piedini



*See the table of output shaft for the complete list of diameters

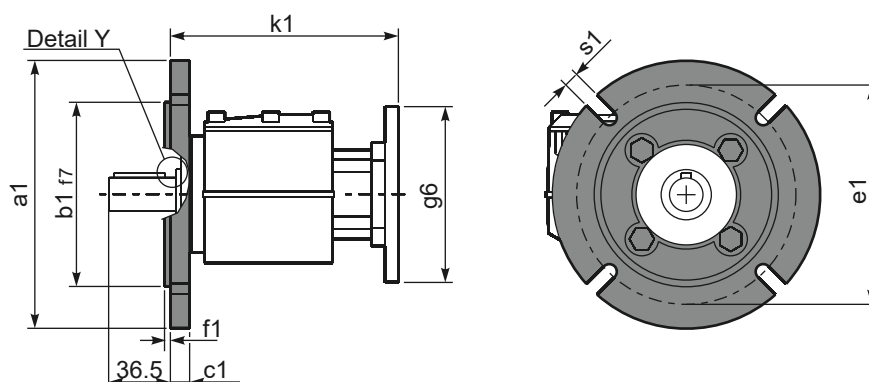
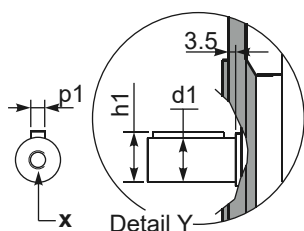
Feet Code	Market reference	G	H	R	L	L1	S	H1	O	Ø	S2 only with motor flange	B5 max. Flange	kit code
B1	112	18	85	110	87	50	130	133	15	9	15 80/90B5	-	KC30.9.022
B2	212/3	18	100	130	107.5	60	155	145	5	11	3.5 80/90B5	-	KC30.9.023LM
S1	17-32	18	75	110	110	50	130	123	15	9	5 71B5	71B5	KC30.9.024

Other feet are available, see our web site
Sono disponibili altri piedini, consulta il nostro sito web

A see on page bottom

Most popular types
Tipi più diffusi

P302A-**F**... Output flanges
flange di uscita



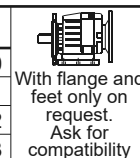
*Available output shaft / Albero di uscita

	Shaft - d1	p1	h1	x
Standard	Ø 20x40	6	22.5	M8x19
On request A richiesta	Ø 14x30	5	16	M6x16
	Ø 16x40	5	18	M6x16
	Ø 19x40	6	21.5	M6x16
	Ø 24x50	8	27	M8x19
	Ø 25x50	8	28	M8x19

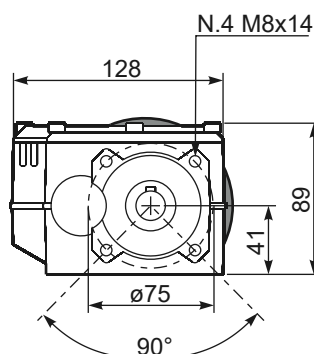
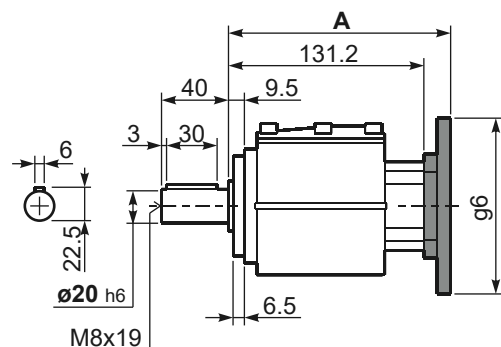
Available output flanges / flange di uscita

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

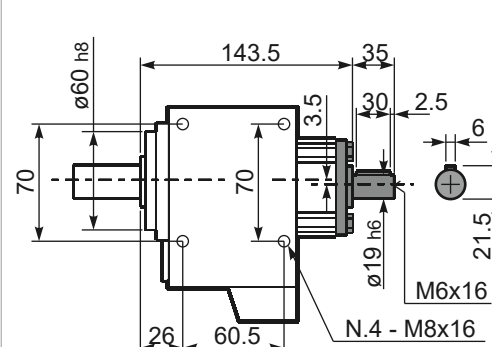
* Holes position
Posizione fori



P302A-**N**... Basic gearbox
Riduttore base



R302A-**N**... Input Shaft
Albero in entrata



B5 Motor Flanges	A	C _{max}	g6	k1	kit code
63 B5	151.7	170	140	155.2	K063.4.041
71 B5	149.7	180	160	153.2	K063.4.042
80/90 B5	151.7	200	200	155.2	K063.4.043

B14 Motor Flanges	A	C _{max}	g6	k1	kit code
71 B14	149.7	152.5	105	153.2	K063.4.047
80 B14	151.7	160	120	155.2	K063.4.046
90 B14	151.7	170	140	155.2	K063.4.041