▪ QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min^{-1}

Output Speed n_2 [min^{-1}]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	Available B5 motor flanges -B 63	-C 71	-D 80*	-E 90*	-F 100* 112	Available B14 motor flanges -Q 71	-R 80	-T 90	-U 100 112		Output Shaft ø	Ratios code
398	**3.52**	3	68	1.2	3.5	80	B					C	C			2821		01
321	**4.37**	3	84	1.1	3.1	90	B					C	C			2818		02
252	**5.56**	3	107	0.9	2.7	100	B					C	C			2813		03
220	**6.36**	2.2	90	1.2	2.5	105	B					C	C			1921		04
191	**7.33**	2.2	104	1.2	2.5	120	B					C	C			2812		05
177	**7.89**	2.2	112	1.2	2.5	130	B					C	C			1918		06
139	**10.06**	2.2	143	1.2	2.5	165	B					C	C			1913		08
120	**11.66**	2.2	166	1.0	2.2	165	B					C	C			1713	**standard**	09
106	**13.26**	1.5	130	1.3	1.9	165	B					C	C			1912	**ø25**	10
102	**13.68**	1.5	134	1.2	1.8	165	B					C	C			1513		25
91	**15.37**	1.5	151	1.1	1.6	165	B					C	C			1712	ø16	11
86	**16.33**	1.5	160	1.0	1.5	165	B					C	C			1313	ø19	26
78	**18.04**	1.5	177	0.9	1.4	165	B					C	C			1512	ø20	23
65	**21.54**	1.1	154	1.1	1.2	165	B					C	C			1312	ø24	14
63	**22.29**	1.1	160	1.0	1.1	165	B					C	C			1013	On request	15
53	**26.31**	0.75	129	1.2	0.90	155	B					C	C			1310		16
47.6	**29.40**	0.75	144	1.1	0.86	165	B					C	C			1012		17
39	**35.91**	0.55	130	1.2	0.66	155	B					C	C			1010		18
36.5	**38.37**	0.55	139	1.2	0.66	165	B					C	C			912		19
29.9	**46.87**	0.55	170	0.9	0.51	155	B					C	C			910		20
27.6	**50.67**	0.37	123	1.1	0.41	137	B					C	C			712		21
22.6	**61.89**	0.37	150	1.0	0.38	155	B					C	C			710		22

The dynamic efficiency is **0.96** for all ratios

*Nel montaggio P la flangia può superare l'ingombro massimo dei piedi. Eventualmente utilizzare la flangia B14
* In the P mounting the B5 motor flange can exceed the foot maximum dimensions. Possibly use the flange B14

Motor Flanges Available Flange Motore Disponibili

B) **Supplied with Reduction Bushing** Fornito con Bussola di Riduzione

B) **Available on Request without reduction bushing** Disponibile a Richiesta senza Bussola di Riduzione

C) **Motor Flange Holes Position** Posizione Fori Flangia Motore

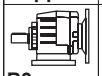
EN Unit **412A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary.
See table 1 for lubrication and recommended quantity.
In table 2 please see possible radial loads and axial loads on the gearbox.

I Il riduttore **412A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione.
Vedi tab.1 per oli e quantità consigliati.
In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore.

D Das Getriebe **412A** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert.
In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben.
In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt.

F Le réducteur **412A** est fourni complet avec de l'huile synthétique pour la lubrification permanente et ne nécessite aucun entretien.
Voir tableau 1 concernant les huiles et les quantités conseillées.
Les charges radiales et axiales applicables au réducteur sont précisées dans le tableau 2.

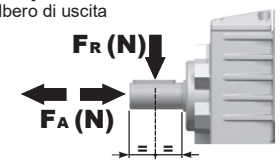
E El reductor tamaño **412A** se suministra, lubricado de por vida con aceite sintético y no requiren mantenimiento alguna.
Ver tabla 1, para cantidades y aceites recomendados.
En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.

Standard supplied	**For these mounting position specify in the order or add oil** Per queste posizioni specificare in fase d'ordine o aggiungere olio					
 **B3**	 **B6**	 **B7**	 **B8**	 **V5**	 **V6**	 **V8**
0.25 LT	0.35 LT	0.40 LT	0.45 LT	0.40 LT	0.50 LT	Ask
SHELL Omala S4 WE 320			**ENI** Telium VSF 320			

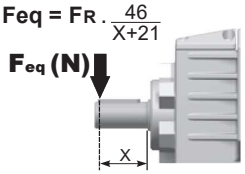
For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita



$$Feq = FR \cdot \frac{46}{X+21}$$

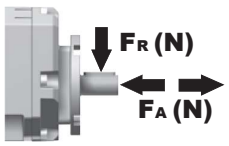


n_2	FA	FR
300	310	1550
250	330	1650
200	360	1800

n_2	FA	FR
140	406	2030
120	448	2240
85	480	2400

n_2	FA	FR
70	540	2700
40	600	3000
15	600	3000

Input shaft
Albero in entrata

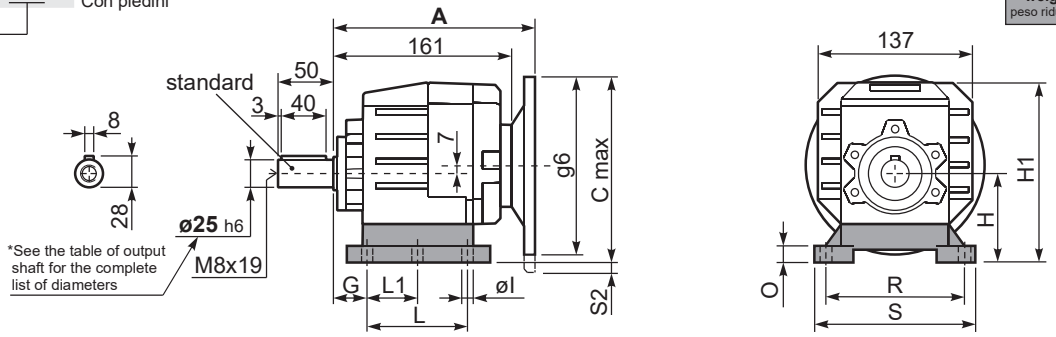


n_1	FA	FR
1400	240	1200
900	280	1400
500	340	1700

tab. 2

P412A**B1**... With feet
Con piedini

Gearbox weight peso riduttore	With flange **5.7 kg**
	With feet **5.9 Kg**



Feet / piedini

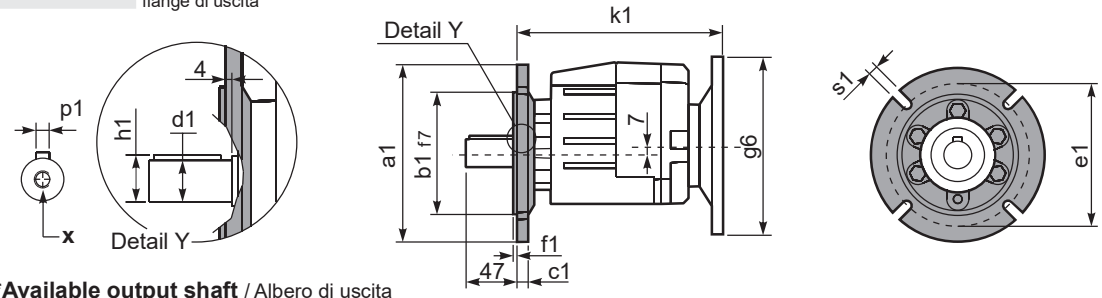
Feet Code	Market reference	G	H	R	L	L1	S	H1	O	øl	S2 only with motor flange		B5 max. Flange	kit code
B1	112	18	85	110	87	50	130	167.5	15	-	8 33	80/90B5 100/112B5	-	KC35.9.021
B2	212/3	18	100	130	107.5	60	155	182.5	17	11	18	100/112B5	-	KC40.9.025
S1	17	18	75	110	90÷110	50	145	155.5	15	9	18 43	80/90B5 100/112B5	-	KC40.9.022
S2	27	25	90	110	130	-	145	172.5	20	9	3 28	80/90B5 100/112B5	-	KC40.9.024
H2	022-223	25	100	110	115	-	145	182.5	20	9	18	100/112B5	-	KC40.9.026
M1	42/3	25	80	110÷120	85	-	145	162.5	15	9	13 38	80/90B5 100/112B5	-	KC40.9.023

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

P412A**-F**... Output flanges
flange di uscita

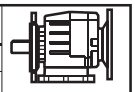


***Available output shaft** / Albero di uscita

	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

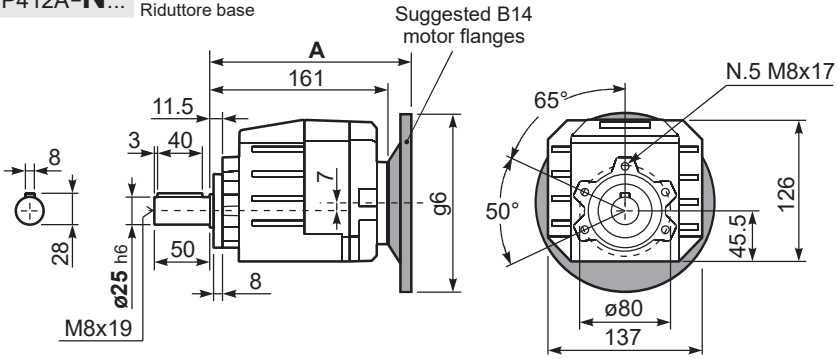
Available output flanges / flange di uscita

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

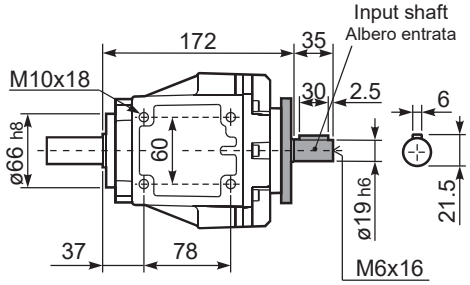


With flange and feet only on request. Ask for compatibility

P412A**-N**... Basic gearbox
Riduttore base



R412A-**N**... Input Shaft
Albero in entrata



B5 Motor Flanges	A	C_{max}	g6	k1	kit code
63 B5	181.5	177	140	185.5	K063.4.041
71 B5	179.5	187	160	183.5	K063.4.042
80/90 B5	181.5	207	200	185.5	K063.4.043
100/112 B5	196.5	232	250	200.5	KC40.4.043

B14 Motor Flanges	A	C_{max}	g6	k1	kit code
71 B14	179.5	159.5	105	183.5	K063.4.047
80 B14	181.5	167	120	185.5	K063.4.046
90 B14	181.5	177	140	185.5	K063.4.041
100/112 B14	196.5	187	160	200.5	KC40.4.041