

Technical Data Sheet
Gearbox
INLINE GEARBOX



MODEL	512A	
Ø OUTPUT SHAFT	30	mm
APPROXIMATE RATIO	14	
EXACT RATIO	14.21	
OUTPUT SPEED	104	RPM
EXACT OUTPUT SPEED	103	RPM
INPUT POWER	1.10	KW
INPUT ROTATION	1400	RPM
INPUT PAM	90B14	
OUTPUT TORQUE	102.35	N.m
NOMINAL TORQUE	250.00	N.m
NOMINAL POWER	2.7	KW
SERVICE FACTOR	2.45	
DYNAMIC EFFICIENCY	0.96	

Oil Quantity (L)

B3/H1	B6/H4	B7/H3	B8/H2	V5/H5	V6/H6
0.7	0.8	1.15	1.2	1.15	1.25

Radial and Axial Loads



n_2 [min-1]	F_A [N]	F_R [N]
300	460	2300
200	520	2600
120	620	3100
15	1000	5000

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Gearbox weight peso riduttore	With flange	11.7 kg
	With feet	11.9 Kg



Feet Code	Market reference	G	H	R	L	S	H1	O	Øl	S2 only with motor flange	B5 max. Flange	kit code
B3	312/3	18	110	160	130	190	211	20	11	10 100/112B5 35 132B5	-	KC50.9.024
B4	30/35	20	130	180	149.5	216	231	18	14	15 132B5	-	KC60.9.024
S4	47-57	30	115	135	165	170	216	25	14	5 100/112B5 30 132B5	-	KC50.9.022
H3	023-233	30	130	135	135	185	231	25	14	15 132B5	-	KC50.9.025
M2	52/3	30	110	135-150	100	190	211	18	11	10 100/112B5 35 132B5	-	KC50.9.023

 Most popular types
Tipi più diffusi

The technical drawing illustrates the output shaft assembly with three main views:

- Front View (Left):** Shows a circular end view with a central hole of diameter d_1 . The mounting flange has a thickness of p_1 . A coordinate system with axes x and y is shown.
- Side View (Right):** Shows the profile of the shaft and its connection to the motor housing. Key dimensions include:
 - a_1 : Total length of the shaft assembly.
 - b_1 : Distance from the motor housing face to the center of the shaft.
 - f_7 : Flange thickness at the motor connection.
 - f_1 : Flange thickness at the output end.
 - c_1 : Distance from the output flange face to the center of the shaft.
 - 57.5 : A specific distance dimension along the shaft axis.
 - g_6 : Overall width of the motor housing flange.
 - k_1 : Dimension across the top of the motor housing.
- Detail Y (Circular Detail):** An enlarged view of the shaft-housing interface. It shows:
 - A total width of 8.5 with KC50.9.011 tolerance.
 - An inner feature with a width of 2.5 .
 - Shaft diameter d_1 and housing bore diameter h_1 .

Available output shaft / Albero di uscita

Dimensional callouts for material specifications are present:

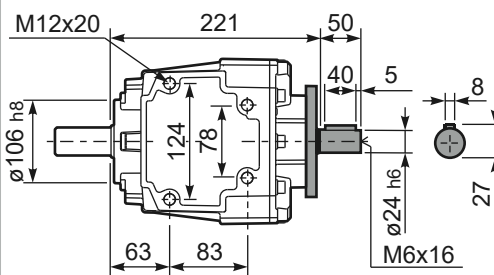
- 8.5 with KC50.9.011 (pointing to the housing detail)
- 51.5 with KC50.9.011 (pointing to the shaft section)

	Shaft - d1	p1	h1	x
Standard	ø 30x60	8	33	M10x22
On request A richiesta	ø 24x50	8	27	M8x19
	ø 25x50	8	28	M8x19
	ø 28x60	8	31	M8x19
	ø 35x60	10	38	M10x22

a1 ø	b1	c1	e1	f1	s1	kit code
160	110	14	130	3.5	11	KC50.9.011
200	130	13	165	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

R512A-N... Input Shaft
Albero in entrata



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	227.5	215.3	160	230	K023.4.041	236	80 B14	229.5	195.3	120	232	K085.4.046	238
80/90 B5	229.5	235.3	200	232	K023.4.042	238	90 B14	229.5	205.3	140	232	K085.4.045	238
100/112 B5	238.5	260.3	250	241	K023.4.043	247	100/112 B14	238.5	215.3	160	241	K085.4.047	247
132 B5	259.5	285.3	300	259	KC51.4.043	265	132 B14	259.5	235.3	200	259	KC51.4.041	265