

Technical Data Sheet
Gearbox
WORM GEARBOX SQUARE DESIGN



MODEL	Q85	
Ø OUTPUT SHAFT	35	mm
APPROXIMATE RATIO	50	
EXACT RATIO	52.00	
OUTPUT SPEED	29	RPM
EXACT OUTPUT SPEED	28	RPM
INPUT POWER	1.50	KW
INPUT ROTATION	1400	RPM
INPUT PAM	90B5	
OUTPUT TORQUE	351.14	N.m
NOMINAL TORQUE	289.00	N.m
NOMINAL POWER	1.2	KW
SERVICE FACTOR	0.80	
DYNAMIC EFFICIENCY	0.66	



Oil Quantity (L)

B3/H1	B6/H4	B7/H3	B8/H2	V5/H5	V6/H6
1.2	1.2	1.2	1.2	1.2	1.2

Radial and Axial Loads



n_2 [min-1]	F_A [N]	F_R [N]
200	500	2500
100	600	3000
50	800	4000
15	1160	5800

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

12.1 kg

Technical drawing of the 100mm diameter reducer, showing dimensions and mounting options.

Dimensions:

- Overall diameter: 100
- Overall width: 135
- Mounting flange diameter: $\varnothing 110h8$
- Mounting flange thickness: 3.5
- Mounting flange hole diameter: $\varnothing F$
- Mounting holes: 8 holes M10x17
- Mounting holes position: Posizione fori di montaggio
- Shaft diameter: 35H8
- Shaft length: 145.5
- Shaft key width: 10
- Shaft key height: 8
- Shaft key position: 38.3
- Shaft key position (on request): 41.3

Mounting holes position
Posizione fori di montaggio

Standard
Hollow shaft

On request
A richiesta

type S	øD	E	G	L	N	O	P	Q	kit code
F1	130 H7	5	13	117.5	50	165	200	11.5	① KS085.9.012 ② -
F2	152 ^{+0.06 +0.00}	5	15	147.5	80	180	205	12.5	① KS085.9.013 ② -
F4	130 H7	5	13	106.5	39	165	200	13	① KS085.9.015 ② -

The figure shows two technical drawings of ball joints. Drawing 1 shows a standard ball joint with dimensions $d1$, $b1$, $c1$, $m1$, $e1$, $n1$, and $t2$. Drawing 2 shows a ball joint with a ball joint pin, with dimensions $d1$, $b1$, $c1$, $e1$, $f1$, $l1$, and $t2$. Both drawings include a side view and a top view.

② kit cod. K085.5.029 type B

[illegible]