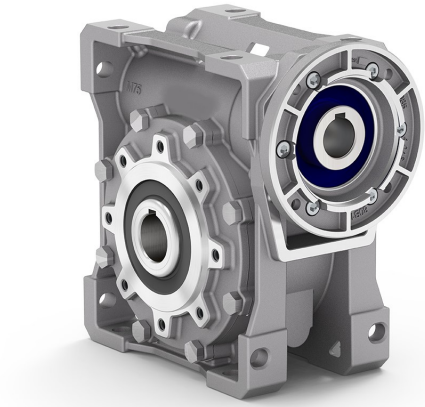
Technical Data Sheet
Gearbox
UMSG

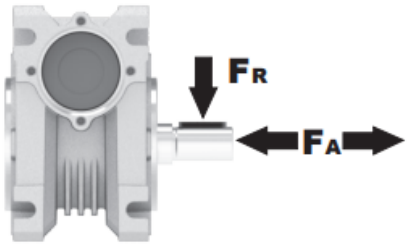
| | | |
|---|---|---|
| MODEL | UMSG40 | |
| Ø OUTPUT SHAFT | 18 | mm |
| APPROXIMATE RATIO | 15 | |
| EXACT RATIO | 15.00 | |
| OUTPUT SPEED | 97 | RPM |
| EXACT OUTPUT SPEED | 97 | RPM |
| INPUT POWER | 0.18 | KW |
| INPUT ROTATION | 1400 | RPM |
| INPUT PAM | 63B14 | |
| OUTPUT TORQUE | 15.10 | N.m |
| NOMINAL TORQUE | 40.27 | N.m |
| NOMINAL POWER | 0.48 | KW |
| SERVICE FACTOR | 2.67 | |
| DYNAMIC EFFICIENCY | 0.82 | |



## 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] |
|---|---|---|
| 200 | 180 | 900 |
| 100 | 220 | 1100 |
| 50 | 260 | 1400 |
| 15 | 400 | 2000 |

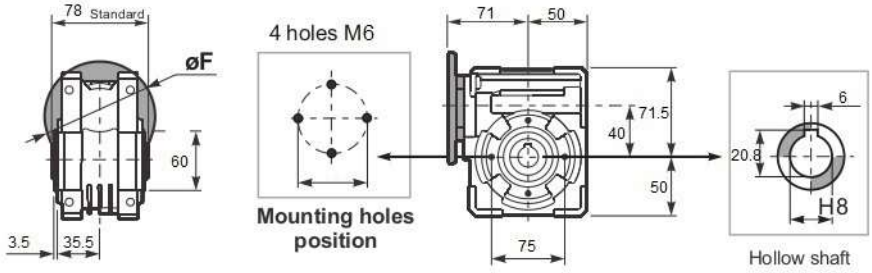
Universal Motors S.A.
Rua Comendador Brandão, 484
4495-375 Póvoa de Varzim
geral@universalmotors.pt
TEL.: 252 299 080

Universal Motors UK, Ltd
Unit E2, Meltham Mills Road
West Yorkshire HD9 4AR
enquiries@universalmotors-group.co.uk
TEL.: +44(0) 1484660222

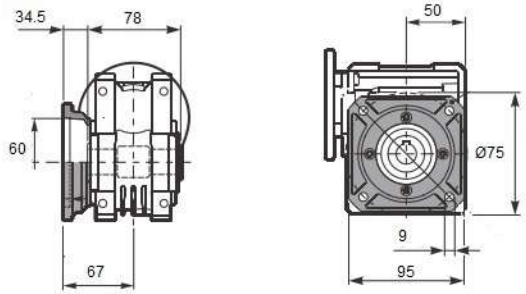
Universal Motors SL
C/La Habana n.6 nave 4 Pl Camporroso
28806 Alcala de Henares
info@universalmotors-group.es
TEL.: 918 864 213

# 3D dimensions UMSG40

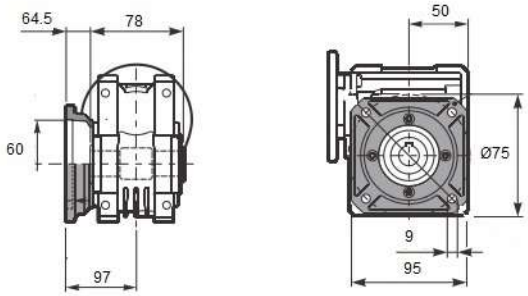
Basic wormbox



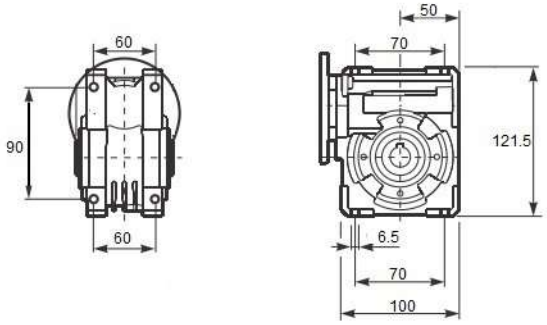

Square flange **FA**



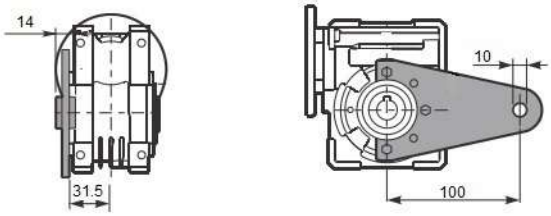

Square flange **FB**



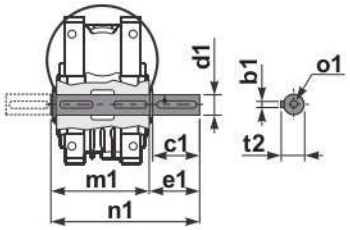

Feet




Reaction arm




Single Shaft




| b1 | c1 | d1 | e1 | m1 | n1 | t2 | o1 |
|---|---|---|---|---|---|---|---|
| 6 | 40 | 18 | 43 | 78 | 128 | 20.5 | M6 |

| 1400 rpm | N2 | Relação | P1 | FS | P1n | M2 | Rend. | Fr max | Veio | | Flanges de entrada | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | rpm | i | kW | | kW | Nm | % | N | Entrada | Saída | 56 | 63 | 71 |
| UMSG40 | 187 | 7,5 | 0,55 | 1,6 | 0,9 | 40 | 0,87 | 1315 | 14 | 18 | | B14/B5 | B14/B5 |
| | 140 | 10 | 0,55 | 1,3 | 0,69 | 40 | 0,85 | 1447 | | | | B14/B5 | B14/B5 |
| | 93 | 15 | 0,55 | 0,9 | 0,48 | 39 | 0,82 | 1657 | | | | B14/B5 | B14/B5 |
| | 70 | 20 | 0,37 | 1,0 | 0,37 | 39 | 0,78 | 1824 | | | | B14/B5 | B14/B5 |
| | 56 | 25 | 0,25 | 1,2 | 0,3 | 38 | 0,75 | 1964 | | | | B14/B5 | B14/B5 |
| | 47 | 30 | 0,25 | 1,2 | 0,31 | 44 | 0,7 | 2087 | | | | B14/B5 | B14/B5 |
| | 35 | 40 | 0,25 | 0,9 | 0,23 | 41 | 0,65 | 2298 | | | | B14/B5 | B14/B5 |
| | 28 | 50 | 0,18 | 1,0 | 0,18 | 37 | 0,62 | 2475 | 11 | | B14/B5 | B14/B5 | |
| | 23 | 60 | 0,12 | 1,3 | 0,15 | 35 | 0,58 | 2630 | | | B14/B5 | B14/B5 | |
| | 18 | 80 | 0,12 | 1,0 | 0,12 | 33 | 0,52 | 2895 | | | B14/B5 | B14/B5 | |
| | 14 | 100 | 0,09 | 1,0 | 0,09 | 29 | 0,47 | 3118 | | | B14/B5 | B14/B5 | |