

Technical Data Sheet  
Gearbox  
HELLICAL BEVEL

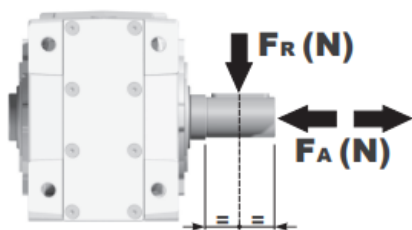


|                    |            |
|--------------------|------------|
| MODEL              | X33S       |
| Ø OUTPUT SHAFT     | 20 mm      |
| APPROXIMATE RATIO  | 72         |
| EXACT RATIO        | 72.25      |
| OUTPUT SPEED       | 20 RPM     |
| EXACT OUTPUT SPEED | 20 RPM     |
| INPUT POWER        | 0.25 KW    |
| INPUT ROTATION     | 1400 RPM   |
| INPUT PAM          | 71B5       |
| OUTPUT TORQUE      | 115.81 N.m |
| NOMINAL TORQUE     | 100.00 N.m |
| NOMINAL POWER      | 0.22 KW    |
| SERVICE FACTOR     | 0.88       |
| DYNAMIC EFFICIENCY | 0.94       |

#### Oil Quantity (L)

| B3/H1 | B6/H4 | B7/H3 | B8/H2 | V5/H5 | V6/H6 |
|-------|-------|-------|-------|-------|-------|
| 0.7   | 0.65  | 0.4   | 0.65  | 0.95  | 0.65  |

#### Radial and Axial Loads



| $n_2$ [min-1] | FA [N] | FR [N] |
|---------------|--------|--------|
| 250           | 400    | 2000   |
| 100           | 500    | 2500   |
| 50            | 560    | 2800   |
| 15            | 560    | 2800   |

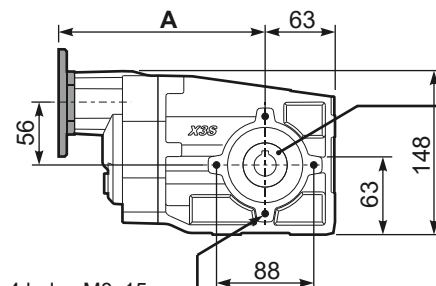
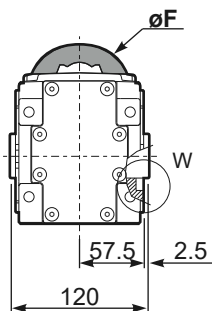
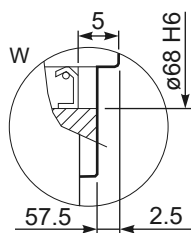
Universal Motors S.A.  
Rua Comendador Brandão, 484  
4495-375 Póvoa de Varzim  
[geral@universalmotors.pt](mailto:geral@universalmotors.pt)  
TEL.: 252 299 080

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

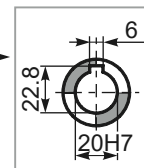
Universal Motors SL  
C/La Habana n.6 nave 4 PI Camporoso  
28806 Alcala de Henares  
[info@universalmotors-group.es](mailto:info@universalmotors-group.es)  
TEL.: 918 864 213

**PX33SC...**Basic Gearbox  
Riduttore baseGearbox  
weight  
peso riduttore **6.55 kg**

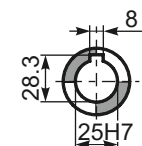
| M. flanges   | Kit code   | øF  | A     |
|--------------|------------|-----|-------|
| <b>63B5</b>  | K050.4.041 | 138 | 189.5 |
| <b>71B5</b>  | K050.4.042 | 160 | 187   |
| <b>56B14</b> | KC40.4.049 | 80  | 187   |
| <b>63B14</b> | K050.4.047 | 90  | 189.5 |
| <b>71B14</b> | K050.4.045 | 105 | 187   |



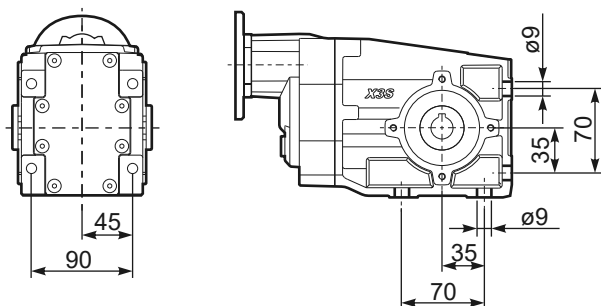
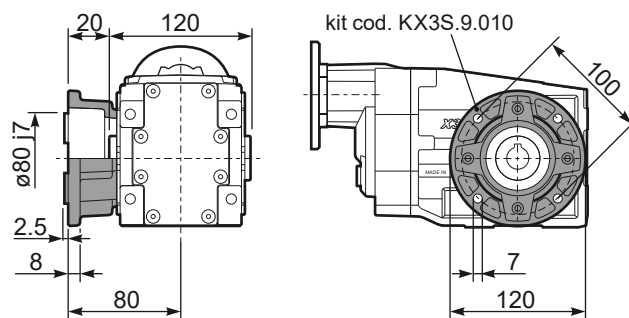
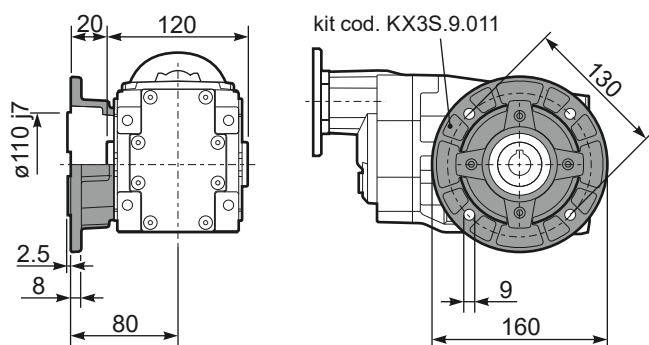
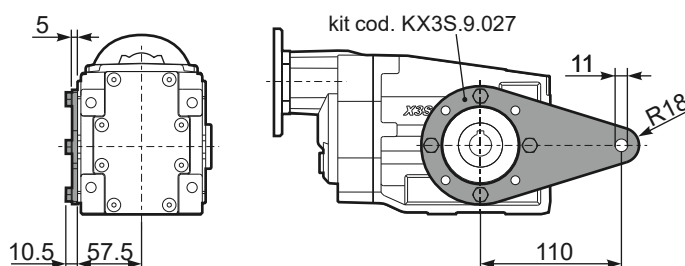
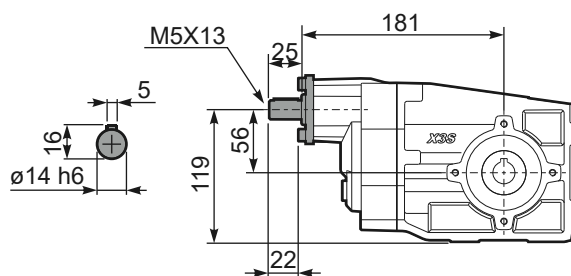
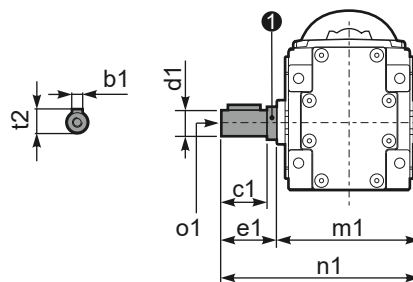
4 holes M8x15  
**Mounting holes position**  
Posizione fori di montaggio



**Standard**  
Hollow shaft



**On request**  
A richiesta

**PX33S...FB..**Feet  
Piedini**PX33S...-F1..**Output flange  
Flangia uscita**PX33S...-F2..**Output flange  
Flangia uscita**PX33S...BR..**Reaction Arm  
Braccio di reazione**RX33S...**Input shaft  
Albero in entrata**PX33SA..**Single output shaft  
Albero semplice in uscita

| d1                           | b1 | c1   | e1   | m1    | n1  | t2   | o1    | 1 | kit code   |
|------------------------------|----|------|------|-------|-----|------|-------|---|------------|
| ø20 k6                       | 6  | 37.5 | 40   | 120   | 160 | 22.5 | M8x20 |   | KX2S.5.028 |
| ø25 <sup>-0.005/-0.020</sup> | 8  | 60   | 63.2 | 126.8 | 190 | 28   | M8x20 |   | K063.5.028 |