



TEC REFERENCE:

FRD33-B3-160-4

## General Data

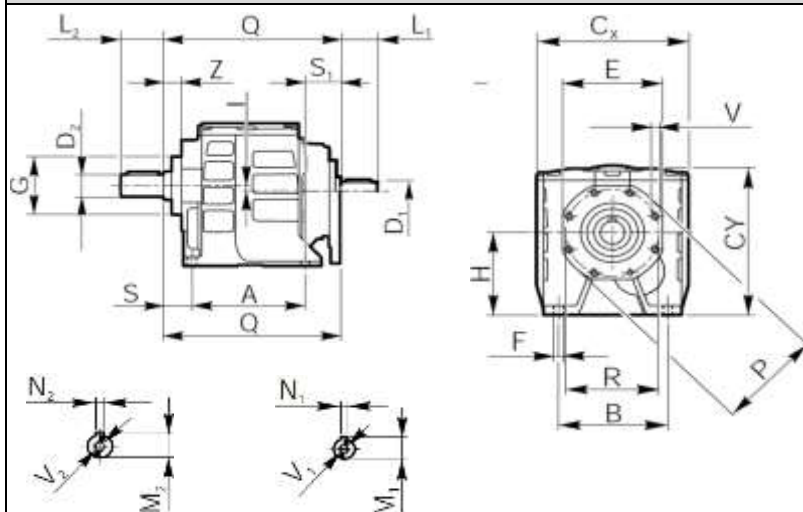
Size  
Nominal Ratio  
Exact Ratio  
Input Power (kW)  
Motor poles  
Motor frame  
Final Output Speed (RPM)  
Output Torque (Nm)  
Service Factor  
Construction  
Weight (kg excluding motor)  
Rated Torque (Nm)  
Mounting position  
Lubrication

|                                                                        |
|------------------------------------------------------------------------|
| FRD33-B3                                                               |
| 160                                                                    |
| 167.799                                                                |
| 0.37                                                                   |
| 4                                                                      |
| 71B5                                                                   |
| 8.3                                                                    |
| 398                                                                    |
| 1.10                                                                   |
| Aluminium                                                              |
| 14.5                                                                   |
| 425                                                                    |
| H1                                                                     |
| Synthetic long-life oil VG-320 (volume dependant on mounting position) |

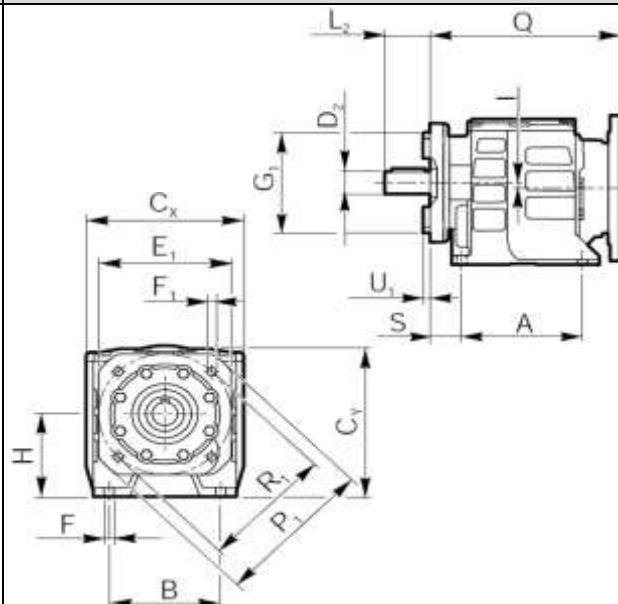
## Installation Dimensions

FRD33-B3

FRD-B3



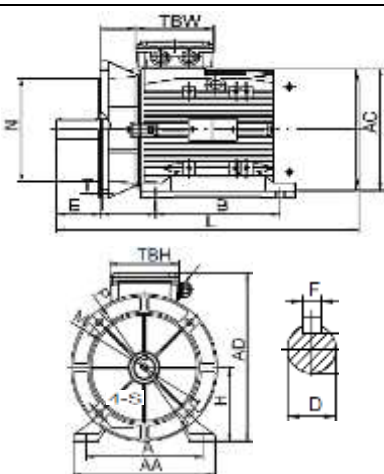
FRD-B5



Size

Overall Dimensions

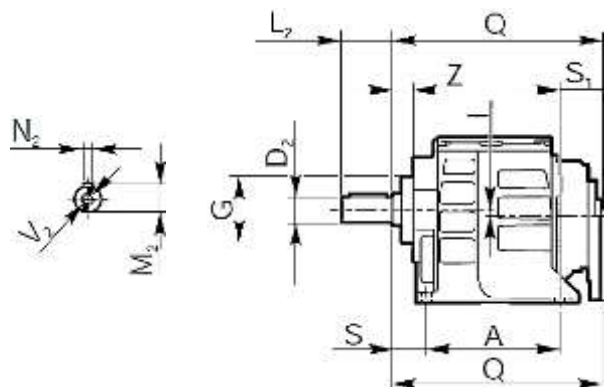
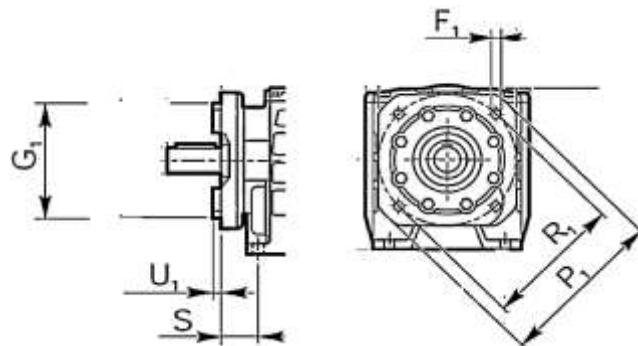
|                |        |     |     |       |    |        |    |     |     |  |     |    |  |     |      |  |     |          |    |        |        |
|----------------|--------|-----|-----|-------|----|--------|----|-----|-----|--|-----|----|--|-----|------|--|-----|----------|----|--------|--------|
| FRD33-B3       | A      | B   | Cy  | Cx    | D1 | D2     |    | E   | E1  |  | F   | F1 |  | Gg6 | G1h7 |  | H   | I        | L1 | L2     | M1     |
|                | 165    | 135 | 198 | 190   | 24 | 30(35) |    | 125 | -   |  | 12  | -  |  | 85  | -    |  | 115 | 9        | 50 | 60(70) | 27     |
|                | M2     |     | N1  | N2    |    | P      | P1 |     | Q   |  | R   | R1 |  | S   | S1   |  | U1  | V        |    | V1     | Weight |
|                | 33(38) |     | 8   | 8(10) |    | 130    | -  |     | 253 |  | 115 | -  |  | 30  | 58   |  | -   | M8x18(8) |    | M8x19  | 14.5   |
|                | V2     |     |     | Z     |    |        |    |     |     |  |     |    |  |     |      |  |     |          |    |        |        |
| M10x22(M10x22) |        |     | 13  |       |    |        |    |     |     |  |     |    |  |     |      |  |     |          |    |        |        |



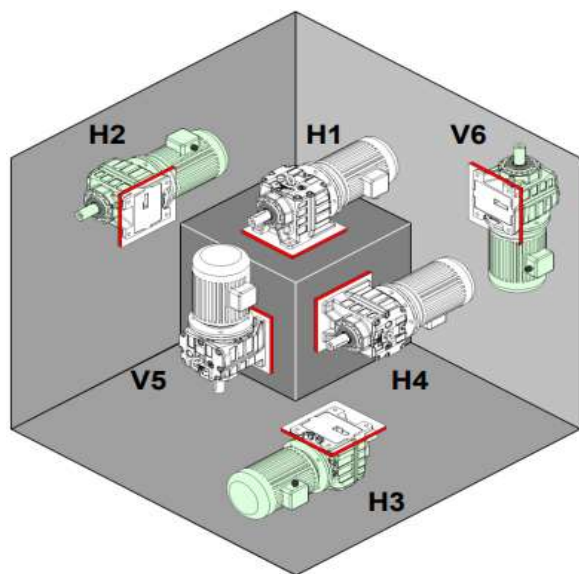
Motor Dimensions

| Ref    | D  | E   | F  | P   | M   | N   | S   | T   | AC  | L        | A   | B       | AA  | H   | AD  | TBW | TBH |
|--------|----|-----|----|-----|-----|-----|-----|-----|-----|----------|-----|---------|-----|-----|-----|-----|-----|
| 56B5   | 9  | 20  | 3  | 120 | 100 | 80  | 7   | 3   | 110 | 195      | 90  | 71      | 112 | 56  | 151 | 83  | 83  |
| 63B14  | 11 | 23  | 4  | 90  | 75  | 60  | M5  | 2.5 | 122 | 217      | 100 | 80      | 124 | 63  | 172 | 98  | 98  |
| 63B5   | 11 | 23  | 4  | 140 | 115 | 95  | 10  | 3   | 122 | 217      | 100 | 80      | 124 | 63  | 172 | 98  | 98  |
| 71B14  | 14 | 30  | 6  | 105 | 85  | 70  | M6  | 2.5 | 138 | 245      | 112 | 90      | 140 | 71  | 189 | 98  | 98  |
| 71B5   | 14 | 30  | 6  | 160 | 130 | 110 | 10  | 3.5 | 138 | 245      | 112 | 90      | 140 | 71  | 189 | 98  | 98  |
| 80B14  | 19 | 40  | 8  | 120 | 100 | 80  | M6  | 3   | 157 | 227/304* | 125 | 100     | 160 | 80  | 214 | 109 | 109 |
| 80B5   | 19 | 40  | 8  | 200 | 165 | 130 | 12  | 3.5 | 157 | 227/304* | 125 | 100     | 160 | 80  | 214 | 109 | 109 |
| 90B14  | 24 | 50  | 8  | 140 | 115 | 95  | M8  | 3   | 177 | 315/340  | 140 | 100/125 | 176 | 90  | 235 | 109 | 109 |
| 90B5   | 24 | 50  | 8  | 200 | 165 | 130 | 12  | 3.5 | 177 | 315/340  | 140 | 100/125 | 176 | 90  | 235 | 109 | 109 |
| 100B14 | 28 | 60  | 8  | 160 | 130 | 110 | M8  | 3.5 | 199 | 376/411* | 160 | 140     | 200 | 100 | 260 | 118 | 118 |
| 100B5  | 28 | 60  | 8  | 250 | 215 | 180 | 15  | 4   | 199 | 376/411* | 160 | 140     | 200 | 100 | 260 | 118 | 118 |
| 112B14 | 28 | 60  | 8  | 160 | 130 | 110 | M8  | 3.5 | 220 | 398      | 190 | 140     | 224 | 112 | 283 | 118 | 118 |
| 112B5  | 28 | 60  | 8  | 250 | 215 | 180 | 15  | 4   | 220 | 398      | 190 | 140     | 224 | 112 | 283 | 118 | 118 |
| 132B14 | 38 | 80  | 10 | 200 | 165 | 130 | M10 | 3.5 | 261 | 460/498  | 216 | 140/178 | 269 | 132 | 323 | 118 | 118 |
| 132B5  | 38 | 80  | 10 | 300 | 265 | 230 | 15  | 4   | 261 | 460/498  | 216 | 140/178 | 260 | 132 | 323 | 118 | 118 |
| 160B14 | 42 | 110 | 12 | 250 | 215 | 180 | M12 | 5   | 313 | 605/650  | 254 | 210/254 | 316 | 160 | 404 | 162 | 187 |
| 160B5  | 42 | 110 | 12 | 350 | 300 | 250 | 19  | 5   | 313 | 605/650  | 254 | 210/254 | 316 | 160 | 404 | 162 | 187 |
| 180B5  | 48 | 110 | 14 | 350 | 300 | 250 | 19  | 5   | 360 | 687/725  | 279 | 241/279 | 354 | 180 | 445 | 162 | 187 |

\*please check the available inputs for this model with the TEC team

**Options dimensions**
**Output shaft**

**Output flange**


| Size     | D2 | F1 | G1 | L2 | M2 | N2 | P1 | R1 | S  | U1 | V2     |
|----------|----|----|----|----|----|----|----|----|----|----|--------|
| FRD33-B3 | 35 | -  | -  | 70 | 38 | 10 | -  | -  | 30 | -  | M10x22 |

**Mounting positions**

**Quantity of oil in litres**

| Size  | H1   | H2   | H3   | H4   | V5    | V6    |
|-------|------|------|------|------|-------|-------|
| FRD02 | 0.20 | 0.20 | 0.20 | 0.20 | 0.28  | 0.28  |
| FRD03 | 0.30 | 0.30 | 0.30 | 0.30 | 0.38  | 0.38  |
| FRD12 | 0.50 | 0.50 | 0.50 | 0.50 | 0.70  | 0.70  |
| FRD13 | 0.50 | 0.50 | 0.50 | 0.50 | 0.70  | 0.70  |
| FRD22 | 0.80 | 0.80 | 0.80 | 0.80 | 1.00  | 1.00  |
| FRD23 | 0.80 | 0.80 | 0.80 | 0.80 | 1.00  | 1.00  |
| FRD32 | 1.30 | 1.30 | 1.30 | 1.30 | 1.80  | 1.80  |
| FRD33 | 1.60 | 1.60 | 1.60 | 1.60 | 2.10  | 2.10  |
| FRD42 | 2.20 | 2.20 | 2.20 | 2.20 | 3.00  | 3.00  |
| FRD43 | 2.20 | 2.20 | 2.20 | 2.20 | 3.40  | 3.40  |
| FRD52 | 4.50 | 4.50 | 4.50 | 4.50 | 5.50  | 5.50  |
| FRD53 | 4.50 | 4.50 | 4.50 | 4.50 | 6.50  | 6.50  |
| FRD62 | 7.00 | 7.00 | 7.00 | 7.00 | 9.00  | 9.00  |
| FRD63 | 7.00 | 7.00 | 7.00 | 7.00 | 11.00 | 11.00 |

**Main assembly codes**

| Input coupling F | Input flange A | Output flange D | Input 2 stage B | Input Gears 3 stage E | Output stage C    | Input 3 stage G |
|------------------|----------------|-----------------|-----------------|-----------------------|-------------------|-----------------|
| KG6.XXX          | K533.206.XXX   | N/A             | KRD33E102G6-AL  | KRD3I041              | KRD3U03930(35)-AL | N/A             |

