

FAG

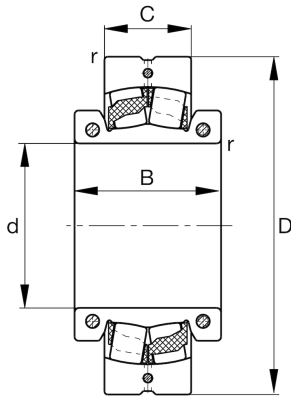
222SM80-TVPA

Spherical roller bearing

Schaeffler ID:  
0167049590000

Spherical roller bearings 222SM, Split  
spherical roller bearings

Technical information



Main Dimensions & Performance Data

|                    |             |                                   |
|--------------------|-------------|-----------------------------------|
| d                  | 80 mm       | Bore diameter                     |
| D                  | 160 mm      | Outside diameter                  |
| C                  | 40 mm       | Width, outer ring                 |
| C <sub>r</sub>     | 213.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub>    | 270.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub>    | 26.500 N    | Fatigue load limit, radial        |
| n <sub>G</sub>     | 2.160 1/min | Limiting speed                    |
| F <sub>a max</sub> | 7.600 N     | Maximum axial load                |
|                    | 5 kg        | Weight                            |

Mounting dimensions

|                |        |                                  |
|----------------|--------|----------------------------------|
| M <sub>i</sub> | 14 Nm  | Tightening torque clamping screw |
| M <sub>a</sub> | 8,5 Nm | Tightening torque clamping screw |

Dimensions

|                  |       |                           |
|------------------|-------|---------------------------|
| r <sub>min</sub> | 2 mm  | Minimum chamfer dimension |
| d <sub>1</sub>   | 80 mm | Bore diameter IR/WS       |
| B                | 70 mm | Width, inner ring         |

Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 120 °C | Operating temperature max. |

Calculation factors

|                |        |                                                                                     |
|----------------|--------|-------------------------------------------------------------------------------------|
|                | 22218K | Bearing designation                                                                 |
| e              | 0,22   | Limiting value of Fa/Fr for the applicability of<br>diff. Values of factors X and Y |
|                | H318   | Adapter sleeve                                                                      |
| Y <sub>1</sub> | 3,14   | Dynamic axial load factor                                                           |
| Y <sub>2</sub> | 4,67   | Dynamic axial load factor                                                           |
|                | SNV160 | Housing                                                                             |
| Y <sub>0</sub> | 3,07   | Static axial load factor                                                            |