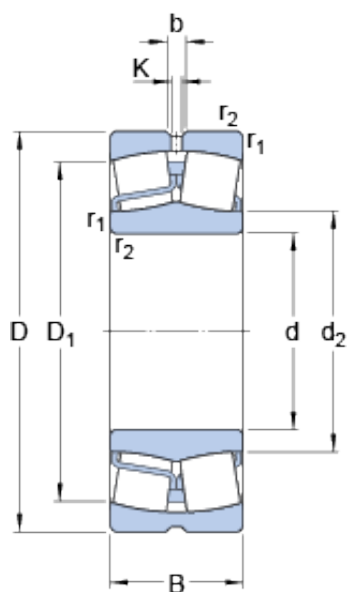




Bearing No. 22312 E/VA405

|                |                            |
|----------------|----------------------------|
| b              | 8.3 mm                     |
| K              | 4.5 mm                     |
| d              | 60 mm                      |
| D              | 130 mm                     |
| B              | 46 mm                      |
| Noun           | Bearing                    |
| Bore           | 2.362 Inch   60 Millimeter |
| Width          | 1.811 Inch   46 Millimeter |
| UNSPSC         | 31171510                   |
| series:        | 223                        |
| Category       | Spherical Roller Bearing   |
| Size (mm)      | 130x60x46                  |
| Enclosure      | Open                       |
| Inventory      | 0.0                        |
| cage type:     | Inner Ring Guided          |
| bore type:     | Straight                   |
| Width (mm)     | 46                         |
| application:   | Vibratory Applications     |
| Weight / LBS   | 6.541                      |
| maximum rpm:   | 5300 RPM                   |
| Bore Profile   | Straight                   |
| Mass bearing   | 3.1 kg                     |
| Product Group  | B04311                     |
| Inch - Metric  | Metric                     |
| closure type:  | Open                       |
| d <sub>2</sub> | 77.9 mm                    |
| Cage Material  | Steel                      |
| D <sub>1</sub> | 110 mm                     |
|                |                            |

|                    |                                                                                                                                                                                                                   |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Keyword String     | Spherical                                                                                                                                                                                                         |
| Relubricatable     | Yes                                                                                                                                                                                                               |
| bore diameter:     | 60 mm                                                                                                                                                                                                             |
| cage material:     | Steel                                                                                                                                                                                                             |
| Bearing number     | 22312 E/VA405                                                                                                                                                                                                     |
| overall width:     | 46 mm                                                                                                                                                                                                             |
| Limiting speed     | 5300 r/min                                                                                                                                                                                                        |
| fillet radius:     | 2 mm                                                                                                                                                                                                              |
| Withdrawal Nut     | Not Applicable                                                                                                                                                                                                    |
| Mounting Method    | Shaft Mount                                                                                                                                                                                                       |
| Rolling Element    | Spherical Roller Bearing                                                                                                                                                                                          |
| Reference speed    | 4000 r/min                                                                                                                                                                                                        |
| finish/coating:    | Uncoated                                                                                                                                                                                                          |
| outer ring type:   | Not Split                                                                                                                                                                                                         |
| Outside Diameter   | 5.118 Inch   130<br>Millimeter                                                                                                                                                                                    |
| Manufacturer URL   | <a href="http://www.skf.com">http://www.skf.com</a>                                                                                                                                                               |
| Long Description   | 60MM Straight Bore;<br>130MM Outside<br>Diameter; 46MM Width;<br>C0-Medium Clearance;<br>Shaft Mount; Double<br>Row of Spherical Roller<br>Bearings; Steel Cage<br>Material; Open<br>Enclosure;<br>Relubricatable |
| outside diameter:  | 130 mm                                                                                                                                                                                                            |
| outer ring width:  | 46 mm                                                                                                                                                                                                             |
| precision rating:  | Not Rated                                                                                                                                                                                                         |
| Manufacturer Name  | SKF                                                                                                                                                                                                               |
| Weight / Kilogram  | 2.97                                                                                                                                                                                                              |
| bearing material:  | Steel                                                                                                                                                                                                             |
| Withdrawal Sleeve  | Not Applicable                                                                                                                                                                                                    |
| Internal Clearance | C0-Medium                                                                                                                                                                                                         |
|                    |                                                                                                                                                                                                                   |

|                               |                                                 |
|-------------------------------|-------------------------------------------------|
| $r_a$ max.                    | 2 mm                                            |
| $d_a$ min.                    | 72 mm                                           |
| Bore Diameter (mm)            | 130                                             |
| $D_a$ max.                    | 118 mm                                          |
| Outer Diameter (mm)           | 60                                              |
| Adapter Part Number           | Not Applicable Inch   Not Applicable Millimeter |
| internal clearance:           | C0                                              |
| $d_a$ - min.                  | 72 mm                                           |
| Minimum Buy Quantity          | N/A                                             |
| $r_{1,2}$ min.                | 2.1 mm                                          |
| $r_a$ - max.                  | 2 mm                                            |
| $D_a$ - max.                  | 118 mm                                          |
| Calculation factor e          | 0.35                                            |
| $D_1$ ?                       | 110 mm                                          |
| $d_2$ ?                       | 77.9 mm                                         |
| static load capacity:         | 335 kN                                          |
| dynamic load capacity:        | 310 kN                                          |
| Calculation factor - e        | 0.35                                            |
| Harmonized Tariff Code        | 84823080                                        |
| lubrication hole type:        | Lubrication Groove & Hole                       |
| $r_{1,2}$ - min.              | 2.1 mm                                          |
| Number of Rows of Rollers     | Double Row                                      |
| Basic dynamic load rating C   | 325 kN                                          |
| operating temperature range:  | Maximum of +390 °F                              |
| Basic dynamic load rating - C | 325 kN                                          |
| Fatigue load limit $P_u$      | 36 kN                                           |
| Calculation factor $Y_1$      | 1.9                                             |
| Calculation factor $Y_2$      | 2.9                                             |
|                               |                                                 |

|                                                             |             |
|-------------------------------------------------------------|-------------|
| Calculation factor $Y_0$                                    | 1.8         |
| Calculation factor - $Y_2$                                  | 2.9         |
| Fatigue load limit - $P_u$                                  | 36 kN       |
| Calculation factor - $Y_0$                                  | 1.8         |
| Calculation factor - $Y_1$                                  | 1.9         |
| Basic static load rating<br>$C_0$                           | 335 kN      |
| Basic static load rating -<br>$C_0$                         | 335 kN      |
| Permissible linear<br>acceleration (oil<br>lubrication)     | 245 g [m/s] |
| Permissible rotational<br>acceleration (oil<br>lubrication) | 687 g [m/s] |