

**FAG****234415-M-SP**

Axial angular contact ball bearing

Axial angular contact ball bearings 2344, double direction, separable, restricted tolerances

## Technical information



## Your current product variant

|                 |    |                    |
|-----------------|----|--------------------|
| Cage            | M  | Brass Cage         |
| Tolerance class | SP | Tolerance class SP |

## Main Dimensions &amp; Performance Data

|                       |             |                                       |
|-----------------------|-------------|---------------------------------------|
| d                     | 75 mm       | Bore diameter                         |
| D                     | 115 mm      | Outside diameter                      |
| B                     | 48 mm       | Width                                 |
| C                     | 24 mm       | Width, outer ring                     |
| C <sub>a</sub>        | 47.500 N    | Basic dynamic load rating, axial      |
| C <sub>0a</sub>       | 144.000 N   | Basic static load rating, axial       |
| C <sub>ua</sub>       | 13.300 N    | Fatigue load limit, axial             |
| n <sub>G</sub> Grease | 5.000 1/min | Limiting speed for grease lubrication |
| n <sub>G</sub> Oil    | 6.700 1/min | Limiting speed for oil lubrication    |
| m                     | 1,578 kg    | Weight                                |



### Mounting dimensions

|               |          |   |
|---------------|----------|---|
| $d_a$         | 91,5 mm  | Diameter shaft shoulder                           |
| $d_a$         | H12      | Diameter shaft shoulder clearance                 |
| $D_a$         | 108,5 mm | Shoulder diameter outer ring                      |
| $D_a$         | H12      | Shoulder diameter outer ring clearance            |
| $r_{a \max}$  | 1,1 mm   | Maximum recess radius                             |
| $r_{a1 \max}$ | 0,3 mm   | Maximum recess radius                             |
| $\alpha$      | 60 °     | Contact angle                                     |
| $a$           | 191,5 mm | Distance between the apexes of the pressure cones |

### Dimensions

|              |        |                             |
|--------------|--------|-----------------------------|
| $d_1$        | 102 mm | Rip diameter shaft washer   |
| $B_1$        | 12 mm  | Height wave disc            |
| $r_{\min}$   | 1,1 mm | Minimum chamfer dimension   |
| $r_{1 \min}$ | 0,3 mm | Minimum chamfer dimension   |
| $d_s$        | 3,2 mm | Diameter lubrication hole   |
| $n_s$        | 6,5 mm | Width of lubricating groove |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 150 °C | Operating temperature max. |

### Additional information

|          |          |                |
|----------|----------|----------------|
| $c_a$    | 589 N/μm | Axial rigidity |
| $K_{aE}$ | 969 N    | Lift-off force |
| $F_v$    | 340 N    | Preload force  |



### Characteristics

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Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed