

**FAG****6308-2RSR-L038-C3**

Deep groove ball bearing

Deep groove ball bearing 63...-2RSR, single row, seals, steel sheet metal cage

## Technical information



## Your current product variant

|                                  |              |   |
|----------------------------------|--------------|---|
| Sealing                          | 2RSR         | Contact seal on both sides              |
| Cage                             | JN           | Steel sheet metal                       |
| Tolerance class                  | PN           | Normal (ISO 492:2023)                   |
| Dimensional / heat stabilization | SN           | Rings dimensional stabilized up to 120° |
| Lubricant                        | L038         | Grease (L038/customer specific)         |
| Radial internal clearance        | C3 (Group 3) | Internal clearance larger than CN       |
| Bore type                        | Z            | Cylindrical                             |

## Main Dimensions &amp; Performance Data

|          |             |                                   |
|----------|-------------|-----------------------------------|
| d        | 40 mm       | Bore diameter                     |
| D        | 90 mm       | Outside diameter                  |
| B        | 23 mm       | Width                             |
| $C_r$    | 45.500 N    | Basic dynamic load rating, radial |
| $C_{0r}$ | 25.000 N    | Basic static load rating, radial  |
| $C_{ur}$ | 1.690 N     | Fatigue load limit, radial        |
| $n_G$    | 4.800 1/min | Limiting speed                    |
| $m$      | 0,65 kg     | Weight                            |

## Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 49 mm  | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 81 mm  | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1,5 mm | Maximum fillet radius                |



## Dimensions

|            |          |                              |
|------------|----------|------------------------------|
| $r_{\min}$ | 1,5 mm   | Minimum chamfer dimension    |
| $D_1$      | 74,64 mm | Shoulder diameter outer ring |
| $D_2$      | 76,5 mm  | Caliber diameter outer ring  |
| $d_1$      | 55,55 mm | Shoulder diameter inner ring |

## Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -20 °C | Operating temperature min. |
| $T_{\max}$ | 100 °C | Operating temperature max. |

## Calculation factors

|       |    |                    |
|-------|----|--------------------|
| $f_0$ | 13 | Calculation factor |
|-------|----|--------------------|

## Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Lifetime lubrication, freedom from maintenance



Grease Lubrication



Sealed on both sides