

**FAG****6308-2Z-C3**

Deep groove ball bearing

Deep groove ball bearing 63...-2Z, single row, shields, steel sheet metal cage

## Technical information



## Your current product variant

Sealing	2Z	Non-contact shield 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	GA13	Ball bearing and insert bearing grease
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
$n_G$	9,100 1/min	Limiting speed
$n_{gr}$	9,000 1/min	Reference speed
$\approx m$	0.631 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.
$T_{\max}$	120 °C	Operating temperature max.

### Calculation factors

$f_0$	13	Calculation factor
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### Characteristics

-   $F_r$  Radial load
-   $F_a$  Axial load in one direction
-   $F_a$  Axial load in two directions
-   $L_h$  Lifetime lubrication, freedom from maintenance
-  Grease Lubrication
-  Sealed on both sides