

**FAG****6308-2RSR-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	GA13	Ball bearing and insert bearing grease
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Bore type	Z	Cylindrical

**Main Dimensions & Performance Data**

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
C <sub>r</sub>	45,500 N	Basic dynamic load rating, radial
C <sub>0r</sub>	25,000 N	Basic static load rating, radial
C <sub>ur</sub>	1,690 N	Fatigue load limit, radial
n <sub>G</sub>	4,800 1/min	Limiting speed
m	0.632 kg	Weight

**Mounting dimensions**

d <sub>a min</sub>	49 mm	Minimum diameter shaft shoulder
D <sub>a max</sub>	81 mm	Maximum diameter of housing shoulder
r <sub>a max</sub>	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