

**FAG****2308-2RS-TVH**

Self-aligning ball bearing

Self-aligning ball bearing 23..-2RS-TVH,
seals, plastic cage

Technical information



Your current product variant

Bore type	Z	Cylindrical
Sealing	2RS	Contact seal on both sides
Cage	TVH	Solid cage made of glass-fiber reinforced polyamide PA66
Tolerance class	PN	Normal (ISO 492:2023)
Radial internal clearance	CN (Group N)	Normal internal clearance
Lubricant	GA13	Ball bearing and insert bearing grease

Main Dimensions & Performance Data

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	33 mm	Width
C_r	30,000 N	Basic dynamic load rating, radial
C_{0r}	9,700 N	Basic static load rating, radial
C_{ur}	610 N	Fatigue load limit, radial
n_G	5,100 1/min	Limiting speed
$\approx m$	0.96 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	74.714 mm	Shoulder diameter outer ring
D_2	77.29 mm	Caliber diameter outer ring
d_1	57.7 mm	Shoulder diameter inner ring
d_2	50.95 mm	Caliber diameter inner ring

Temperature range

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

Calculation factors

e	0.25	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2.51	Dynamic axial load factor
Y_2	3.88	Dynamic axial load factor
Y_0	2.63	Static axial load 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



Static angular error and misalignment



Dynamic angular error and misalignment