

**3003-2Z**

Angular contact ball bearing

Angular contact ball bearing 30..-B-2RZ-TVH,
double row, shields, plastic cage

Technical information

**Your current product variant**

Design variant	B	Bearing without filling slot
Sealing	2RZ	Non-contact seal on both sides
Cage	TVH	Solid cage made of glass-fiber reinforced polyamide PA66
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
Axial internal clearance	CN	Group N (CN)

Main Dimensions & Performance Data

d	17 mm	Bore diameter
D	35 mm	Outside diameter
B	14 mm	Width
C_r	9.100 N	Basic dynamic load rating, radial
C_{0r}	6.100 N	Basic static load rating, radial
C_{ur}	315 N	Fatigue load limit, radial
n_G	16.800 1/min	Limiting speed
n_{gr}	15.300 1/min	Reference speed
$\approx m$	0,056 kg	Weight



Mounting dimensions

$d_{a \min}$	19 mm	Minimum diameter shaft shoulder
$D_{a \max}$	33 mm	Maximum diameter of housing shoulder
$r_{a \max}$	0,3 mm	Maximum fillet radius

Dimensions

r_{\min}	0,3 mm	Minimum chamfer dimension
D_1	29,17 mm	Shoulder diameter outer ring
D_2	29,75 mm	Caliber diameter outer ring
d_1	23,1 mm	Shoulder diameter inner ring
d_2	21,08 mm	Caliber diameter inner ring
a	17,1 mm	Distance between the apexes of the pressure cones
α	25 °	Contact angle

Temperature range

T_{\min}	-20 °C	Operating temperature min.
T_{\max}	120 °C	Operating temperature max.

Characteristics

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