

**3002-2Z-C3**

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
Type of Seal	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	GA14	Ball bearing grease, low noise
Axial internal clearance	C3	Group 3 (C3), bigger than CN

Main Dimensions & Performance Data

d	15 mm	Bore diameter
D	32 mm	Outside diameter
B	13 mm	Width
C_r	8.500 N	Basic dynamic load rating, radial
C_{0r}	5.400 N	Basic static load rating, radial
C_{ur}	280 N	Fatigue load limit, radial
n_G	17.900 1/min	Limiting speed
n_{gr}	15.700 1/min	Reference speed
$\approx m$	0,043 kg	Weight



Mounting dimensions

$d_{a \min}$	17 mm	Minimum diameter shaft shoulder
$D_{a \max}$	30 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	27,23 mm	Shoulder diameter outer ring
D_2	27,84 mm	Caliber diameter outer ring
d_1	21,3 mm	Shoulder diameter inner ring
d_2	19,88 mm	Caliber diameter inner ring
a	16,3 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