

**3809-2Z**

Angular contact ball bearing

Angular contact ball bearing 38..-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	45 mm	Bore diameter
D	58 mm	Outside diameter
B	10 mm	Width
C_r	7.000 N	Basic dynamic load rating, radial
C_{0r}	8.100 N	Basic static load rating, radial
C_{ur}	465 N	Fatigue load limit, radial
n_G	9.300 1/min	Limiting speed
n_{gr}	5.700 1/min	Reference speed
$\approx m$	0,058 kg	Weight



Mounting dimensions

$d_{a \min}$	47 mm	Minimum diameter shaft shoulder
$D_{a \max}$	56 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	53,47 mm	Shoulder diameter outer ring
D_2	54,53 mm	Caliber diameter outer ring
d_1	49,6 mm	Shoulder diameter inner ring
d_2	48,14 mm	Caliber diameter inner ring
a	27,5 mm	Distance between the apexes of the pressure cones
α	25 °	Contact angle

Temperature range

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