

**3810**

Angular contact ball bearing

Angular contact ball bearing 38..-B-TVH,
double row, plastic cage

Technical information



Your current product variant

Design variant	B	Bearing without filling slot
Sealing	Without	Not sealed
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	Without	Bearing not greased
Axial internal clearance	CN	Group N (CN)

Main Dimensions & Performance Data

d	50 mm	Bore diameter
D	65 mm	Outside diameter
B	12 mm	Width
C_r	8.500 N	Basic dynamic load rating, radial
C_{0r}	10.200 N	Basic static load rating, radial
C_{ur}	590 N	Fatigue load limit, radial
n_G	10.900 1/min	Limiting speed
n_{gr}	5.400 1/min	Reference speed
$\approx m$	0,091 kg	Weight



Mounting dimensions

$d_{a \min}$	52 mm	Minimum diameter shaft shoulder
$D_{a \max}$	63 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	60,57 mm	Shoulder diameter outer ring
D_2	61,4 mm	Caliber diameter outer ring
d_1	56,3 mm	Shoulder diameter inner ring
d_2	55,23 mm	Caliber diameter inner ring
a	31 mm	Distance between the apexes of the pressure cones
α	25 °	Contact angle

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	120 °C	Operating temperature max.

Characteristics

	Radial load
	Axial load in one direction
	Axial load in two directions
	Grease Lubrication
	Oil Lubrication
	Not sealed