

**3800-2Z-L091** [↗](#)

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
Type of Sealing	2RZ	Non-contact seal on both sides
Cage	TVH	Solid cage made of glass-fiber reinforced polyamide PA66
Tolerance class	PN	Normal (PN)
Dimensional / heat stabilization	SN	Rings dimensional stabilized up to 120°
Lubricant	L091	Grease (L091/customer specific)
Axial internal clearance	CN	Group N (CN)

Main Dimensions & Performance Data

d	10 mm	Bore diameter
D	19 mm	Outside diameter
B	7 mm	Width
C_r	2.080 N	Basic dynamic load rating, radial
C_{0r}	1.370 N	Basic static load rating, radial
C_{ur}	72 N	Fatigue load limit, radial
n_G	30.500 1/min	Limiting speed
n_{gr}	21.000 1/min	Reference speed
$\approx m$	8 g	Weight



Mounting dimensions

$d_{a \min}$	12 mm	Minimum diameter shaft shoulder
$D_{a \max}$	17 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	15,85 mm	Shoulder diameter outer ring
D_2	16,85 mm	Caliber diameter outer ring
d_1	13,3 mm	Shoulder diameter inner ring
d_2	12,23 mm	Caliber diameter inner ring
a	9 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
	Lifetime lubrication, freedom from maintenance
	Grease Lubrication
	Sealed on both sides