

**71807-TN**

Angular contact ball bearing

Angular contact ball bearing 718.-B-TVP,
single row, plastic cage

Technical information

**Your current product variant**

Design variant	B	B
Sealing	Without	Not sealed
Cage	TVP	Solid cage made of glass-fiber reinforced polyamid PA66
Tolerance class	PN	Normal (ISO 492:2023)
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°
Lubricant	Without	Bearing not greased

Main Dimensions & Performance Data

d	35 mm	Bore diameter
D	47 mm	Outside diameter
B	7 mm	Width
C_r	6.000 N	Basic dynamic load rating, radial
C_{0r}	5.300 N	Basic static load rating, radial
C_{ur}	360 N	Fatigue load limit, radial
n_G	18.100 1/min	Limiting speed
n_{gr}	8.200 1/min	Reference speed
$\approx m$	0,028 kg	Weight



Mounting dimensions

$d_{a \min}$	37 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	45 mm	Maximum diameter of housing shoulder
$D_{b \max}$	45,6 mm	Maximum diameter of housing shoulder
$r_{a \max}$	0,3 mm	Maximum fillet radius of shaft
$r_{a1 \max}$	0,2 mm	Maximum fillet radius of housing

Dimensions

r_{\min}	0,3 mm	Minimum chamfer dimension
$r_{1 \min}$	0,2 mm	Minimum chamfer dimension
D_1	42,3 mm	Shoulder diameter on outer ring wide side face
d_1	39,707 mm	Shoulder diameter on inner ring wide side face
a	20,7 mm	Distance between the apexes of the pressure cones
α	40 °	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
	Grease Lubrication
	Oil Lubrication
	Not sealed