

**71816-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	80 mm	Bore diameter
D	100 mm	Outside diameter
B	10 mm	Width
$C_r$	16.500 N	Basic dynamic load rating, radial
$C_{0r}$	19.100 N	Basic static load rating, radial
$C_{ur}$	1.240 N	Fatigue load limit, radial
$n_G$	8.000 1/min	Limiting speed
$n_{gr}$	3.900 1/min	Reference speed
$\approx m$	0,152 kg	Weight



### Mounting dimensions

$d_{a \min}$	85,2 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	96,8 mm	Maximum diameter of housing shoulder
$D_{b \max}$	98 mm	Maximum diameter of housing shoulder
$r_{a \max}$	0,6 mm	Maximum fillet radius of shaft
$r_{a1 \max}$	0,3 mm	Maximum fillet radius of housing

### Dimensions

$r_{\min}$	0,6 mm	Minimum chamfer dimension
$r_{1 \min}$	0,3 mm	Minimum chamfer dimension
$D_1$	92 mm	Shoulder diameter on outer ring wide side face
$d_1$	88 mm	Shoulder diameter on inner ring wide side face
$a$	42,8 mm	Distance between the apexes of the pressure cones
$\alpha$	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