

**3814-2Z**

## 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	70 mm	Bore diameter
D	90 mm	Outside diameter
B	15 mm	Width
$C_r$	18.800 N	Basic dynamic load rating, radial
$C_{0r}$	23.200 N	Basic static load rating, radial
$C_{ur}$	1.310 N	Fatigue load limit, radial
$n_G$	5.700 1/min	Limiting speed
$n_{gr}$	4.050 1/min	Reference speed
$\approx m$	0,205 kg	Weight



### Mounting dimensions

$d_{a \min}$	73,2 mm	Minimum diameter shaft shoulder
$D_{a \max}$	86,8 mm	Maximum diameter of housing shoulder
$r_{a \max}$	0,6 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	0,6 mm	Minimum chamfer dimension
$D_1$	84,48 mm	Shoulder diameter outer ring
$D_2$	86,32 mm	Caliber diameter outer ring
$d_1$	77,7 mm	Shoulder diameter inner ring
$d_2$	76,48 mm	Caliber diameter inner ring
$a$	43,6 mm	Distance between the apexes of the pressure cones
$\alpha$	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