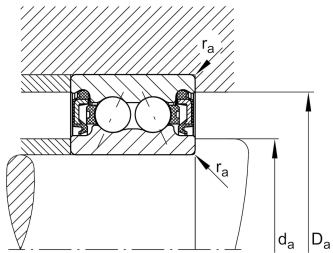
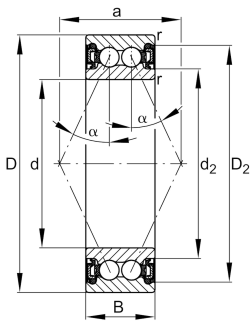


**3816-2Z-C3**

## 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	C3	Group 3 (C3), bigger than CN

## Main Dimensions &amp; Performance Data

d	80 mm	Bore diameter
D	100 mm	Outside diameter
B	15 mm	Width
$C_r$	19.200 N	Basic dynamic load rating, radial
$C_{0r}$	24.800 N	Basic static load rating, radial
$C_{ur}$	1.430 N	Fatigue load limit, radial
$n_G$	5.100 1/min	Limiting speed
$n_{gr}$	3.650 1/min	Reference speed
$\approx m$	0,23 kg	Weight



### Mounting dimensions

$d_{a \min}$	83,2 mm	Minimum diameter shaft shoulder
$D_{a \max}$	96,8 mm	Maximum diameter of housing shoulder
$r_{a \max}$	0,6 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	0,6 mm	Minimum chamfer dimension
$D_1$	93,47 mm	Shoulder diameter outer ring
$D_2$	95,33 mm	Caliber diameter outer ring
$d_1$	86,7 mm	Shoulder diameter inner ring
$d_2$	85,53 mm	Caliber diameter inner ring
$a$	47,8 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