

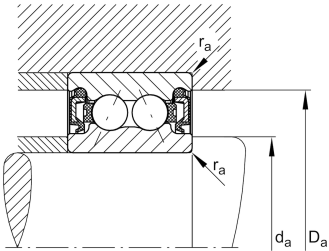
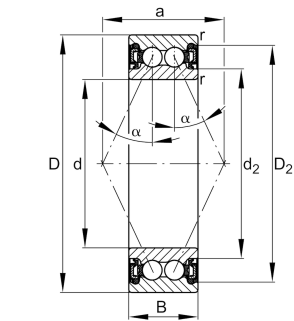


3807-2Z

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 polyamid PA66
Tolerance class	PN	Normal (PN)
Dimensional / heat stabilization	SN	Rings dimensional stabilized up to 120°
Lubricant	GA14	Ball bearing grease, low noise, standard for D<=62mm
Axial internal clearance	CN	Group N (CN)

Main Dimensions & Performance Data

d	35 mm	Bore diameter
D	47 mm	Outside diameter
B	10 mm	Width
C <sub>r</sub>	6,500 N	Basic dynamic load rating, radial
C <sub>0r</sub>	6,800 N	Basic static load rating, radial
C <sub>ur</sub>	375 N	Fatigue load limit, radial
n <sub>G</sub>	11,700 1/min	Limiting speed
n <sub>gr</sub>	7,400 1/min	Reference speed
m	0.04 kg	Weight



Mounting dimensions

$d_{a\ min}$	37 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	45 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	0.3 mm	Maximum fillet radius




Dimensions

$r_{\min}$	0.3 mm	Minimum chamfer dimension
$D_1$	43 mm	Shoulder diameter outer ring
$D_2$	44.05 mm	Caliber diameter outer ring
$d_1$	39 mm	Shoulder diameter inner ring
$d_2$	37.5 mm	Caliber diameter inner ring
$a$	22.6 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