

**FAG****X-life****7008-B-XL-2RS-TVP-UL**

Angular contact ball bearing

Angular contact ball bearing 70..-B-XL-2RS-TVP, single row, X-life, seals, plastic cage

Technical information

**Your current product variant**

Design variant	B	B
Type of Seal	2RS	Contact seal on both sides
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°
Bearing with matched conditions for fitting in pairs	UL	Bearing set with light preload
Lubricant	GA13	Ball bearing and insert bearing grease

Main Dimensions & Performance Data

d	40 mm	Bore diameter
D	68 mm	Outside diameter
B	15 mm	Width
C _r	28.000 N	Basic dynamic load rating, radial
C _{0r}	20.300 N	Basic static load rating, radial
C _{ur}	1.410 N	Fatigue load limit, radial
n _G	5.400 1/min	Limiting speed
≈m	170 g	Weight



Mounting dimensions

$d_{a \min}$	44,6 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	63,4 mm	Maximum diameter of housing shoulder
$D_{b \max}$	64,8 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum fillet radius of shaft
$r_{a1 \max}$	0,6 mm	Maximum fillet radius of housing

Dimensions

r_{\min}	1 mm	Minimum chamfer dimension
$r_{1 \min}$	0,6 mm	Minimum chamfer dimension
D_1	58,76 mm	Shoulder diameter on outer ring wide side face
D_2	59,39 mm	Caliber diameter on outer ring wide side face
D_3	64,95 mm	Caliber diameter on outer ring small side face
d_1	51,87 mm	Shoulder diameter on inner ring wide side face
d_2	48,33 mm	Caliber diameter on inner ring wide side face
a	30,5 mm	Distance between the apexes of the pressure cones
α	40 °	Contact angle

Temperature range

T_{\min}	-20 °C	Operating temperature min.
T_{\max}	100 °C	Operating temperature max.

Additional information

V_{\max}	-6 μm	Preload per set max.
Tol (+)	8 μm	Tolerance for axial clearance or preload per set
$F_{V \max}$	200 N	Preload force



Characteristics



Radial load



Axial load in one direction



Lifetime lubrication, freedom from maintenance



Grease Lubrication



Sealed on both sides