



FAG

HC7004-B-XL-2RS-TVP

Angular contact ball bearing



Angular contact ball bearing HC70..-B-2RS-TVP, Hybrid bearing, single row, seals, plastic cage

X-life

Technical information



Your current product variant

Material combination	HC	Hybrid bearing, rolling elements ceramic, bearing rings made of steel
Design variant	B	B
Sealing	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°
Lubricant	GA14	Ball bearing grease, low noise

Main Dimensions & Performance Data

d	20 mm	Bore diameter
D	42 mm	Outside diameter
B	12 mm	Width
C_r	14.500 N	Basic dynamic load rating, radial
C_{0r}	7.700 N	Basic static load rating, radial
C_{ur}	405 N	Fatigue load limit, radial
n_G	9.800 1/min	Limiting speed
m	0,05 kg	Weight



Mounting dimensions

$d_{a \min}$	23,2 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	38,8 mm	Maximum diameter of housing shoulder
$D_{b \max}$	40 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	34,82 mm	Shoulder diameter on outer ring wide side face
D_2	35,5 mm	Caliber diameter on outer ring wide side face
D_3	39,8 mm	Caliber diameter on outer ring small side face
d_1	28,94 mm	Shoulder diameter on inner ring wide side face
d_2	26,52 mm	Caliber diameter on inner ring wide side face
a	19,4 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.

Characteristics

	Radial load
	Axial load in one direction
	Lifetime lubrication, freedom from maintenance
	Grease Lubrication
	Sealed on both sides
	Current insulated