



FAG

**HC7203-B-XL-2RS-TVP**

Angular contact ball bearing



Angular contact ball bearing HC72...-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	P6	Class 6 (ISO 492:2023)
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°
Lubricant	GA14	Ball bearing grease, low noise

## Main Dimensions &amp; Performance Data

d	17 mm	Bore diameter
D	40 mm	Outside diameter
B	12 mm	Width
C <sub>r</sub>	10.500 N	Basic dynamic load rating, radial
C <sub>0r</sub>	5.400 N	Basic static load rating, radial
C <sub>ur</sub>	285 N	Fatigue load limit, radial
n <sub>G</sub>	11.100 1/min	Limiting speed
m	0,057 kg	Weight



### Mounting dimensions

$d_{a \min}$	21,2 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	35,8 mm	Maximum diameter of housing shoulder
$D_{b \max}$	37,6 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
$D_1$	31,46 mm	Shoulder diameter on outer ring wide side face
$D_2$	33,05 mm	Caliber diameter on outer ring wide side face
$D_3$	36,34 mm	Caliber diameter on outer ring small side face
$d_1$	25,99 mm	Shoulder diameter on inner ring wide side face
$d_2$	22,93 mm	Caliber diameter on inner ring wide side face
$a$	18 mm	Distance between the apexes of the pressure cones
$\alpha$	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