

**FAG****7005-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

**X-life**

## Technical information

**Your current product variant**

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 (PN)
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	GA14	Ball bearing grease, low noise

**Main Dimensions & Performance Data**

d	25 mm	Bore diameter
D	47 mm	Outside diameter
B	12 mm	Width
$C_r$	16.000 N	Basic dynamic load rating, radial
$C_{0r}$	9.900 N	Basic static load rating, radial
$C_{ur}$	690 N	Fatigue load limit, radial
$n_G$	8.200 1/min	Limiting speed
$m$	0,078 kg	Weight



### Mounting dimensions

$d_{a \min}$	28,2 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	43,8 mm	Maximum diameter of housing shoulder
$D_{b \max}$	45 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
$D_1$	39,83 mm	Shoulder diameter on outer ring wide side face
$D_2$	40,5 mm	Caliber diameter on outer ring wide side face
$D_3$	44,81 mm	Caliber diameter on outer ring small side face
$d_1$	33,94 mm	Shoulder diameter on inner ring wide side face
$d_2$	31,52 mm	Caliber diameter on inner ring wide side face
$a$	21,5 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.

### Additional information

$V_{\max}$	-4 $\mu\text{m}$	Preload per set max.
Tol (+)	8 $\mu\text{m}$	Tolerance for axial clearance or preload per set
$F_{V \max}$	115 N	Preload force



### Characteristics

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Radial load



Axial load in one direction



Lifetime lubrication, freedom from maintenance



Grease Lubrication



Sealed on both sides