

FAG

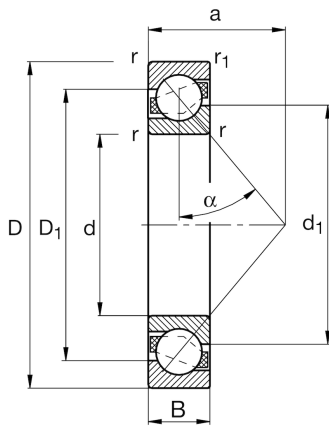
7005-B-XL-TVP

Angular contact ball bearing

Schaeffler ID:
0388704360000Angular contact ball bearings 70...-B,
contact angle $\alpha = 40^\circ$

X-life

Technical information

**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	18.100 1/min	Limiting speed
n_{gr}	12.000 1/min	Reference speed
	71 g	Weight

Dimensions

r_{min}	0,6 mm	Minimum chamfer dimension
$r_{1 min}$	0,3 mm	Minimum chamfer dimension
D_1	39,8 mm	Shoulder diameter on outer ring wide side face
d_1	33,9 mm	Shoulder diameter on inner ring wide side face
a	21 mm	Distance between the apexes of the pressure cones
α	40 °	Contact angle

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	Maximaler Durchmesser der Gehäuseschulter
$r_{a max}$	0,6 mm	Maximum fillet radius of shaft
$r_{a1 max}$	0,3 mm	Maximum fillet radius of housing

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	120 °C	Operating temperature max.

