SCHAEFFLER



FAG

X-life

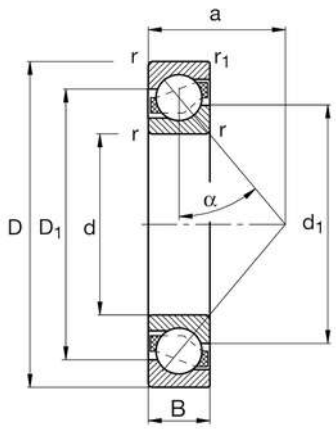
7309-B-XL-TVP-UA

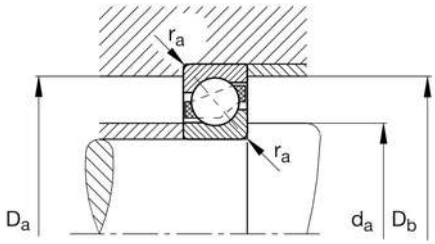
Angular contact ball bearing

Schaeffler ID:
0167260570000

Angular contact ball bearing 73..-B-XL-TVP, single row, X-life, plastic cage

Technical information





Main Dimensions & Performance Data

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
C_r	69,000 N	Basic dynamic load rating, radial
C_{0r}	43,000 N	Basic static load rating, radial
C_{ur}	3,000 N	Fatigue load limit, radial
n_G	9,300 1/min	Limiting speed
$n_{\vartheta r}$	6,500 1/min	Reference speed
	0.815 kg	Weight

Mounting dimensions

$d_{a\ min}$	54 mm	Minimum diameter of shaft shoulder
$D_{a\ max}$	91 mm	Maximum diameter of housing shoulder
$D_{b\ max}$	94.4 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	1.5 mm	Maximum fillet radius of shaft
$r_{a1\ max}$	1 mm	Maximum fillet radius of housing

Dimensions

r_{min}	1.5 mm	Minimum chamfer dimension
$r_{1\ min}$	1 mm	Minimum chamfer dimension
D_1	79.8 mm	Shoulder diameter on outer ring wide side face
d_1	66.7 mm	Shoulder diameter on inner ring wide side face
a	43 mm	Distance between the apexes of the pressure cones
α	40 °	Contact angle

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all further information and guidelines for this product. For further information you can use the contact form on our website.

SCHAEFFLER

Temperature range

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

Additional information

A_{min}	44 µm	Axial clearance per set min.
$Tol_{(+)}$	8 µm	Tolerance for axial clearance or preload per set

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all further information and guidelines for this product. For further information you can use the contact form on our website.