



FAG

7209-B-XL-MP

Angular contact ball bearing

Schaeffler ID:
0191149070000Angular contact ball bearing 72..-B-XL-MP,
single row, X-life, solid brass cage

X-life

Technical information

**Main Dimensions & Performance Data**

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
C_r	40,000 N	Basic dynamic load rating, radial
C_{0r}	27,000 N	Basic static load rating, radial
C_{ur}	1,870 N	Fatigue load limit, radial
n_G	14,300 1/min	Limiting speed
n_{gr}	8,000 1/min	Reference speed
	0.455 kg	Weight

Dimensions

r_{min}	1.1 mm	Minimum chamfer dimension
$r_{1 min}$	0.6 mm	Minimum chamfer dimension
D_1	69.8 mm	Shoulder diameter on outer ring wide side face
d_1	61.19 mm	Shoulder diameter on inner ring wide side face
a	37 mm	Distance between the apexes of the pressure cones
α	40 °	Contact angle

Mounting dimensions

$d_{a min}$	52 mm	Minimum diameter of shaft shoulder
$D_{a max}$	78 mm	Maximum diameter of housing shoulder
$D_{b max}$	80.8 mm	Maximaler Durchmesser der Gehäuseschulter
$r_{a max}$	1 mm	Maximum fillet radius of shaft
$r_{a1 max}$	0.6 mm	Maximum fillet radius of housing

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	150 °C	Operating temperature max.

