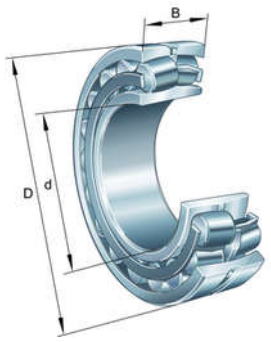
SCHAEFFLER



FAG

X-life

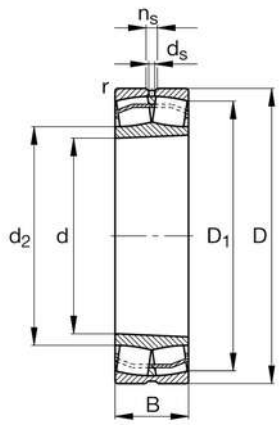
22209-E1-XL-K-C3

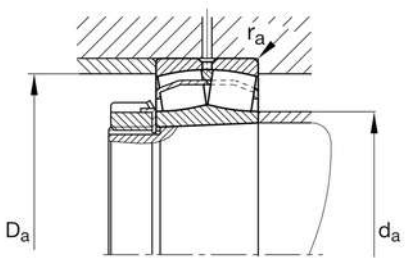
Spherical roller bearing

Schaeffler ID:
0167034560030

Spherical roller bearings 222..-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

Technical information





Main Dimensions & Performance Data

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	23 mm	Width
C_r	104,000 N	Basic dynamic load rating, radial
C_{0r}	99,000 N	Basic static load rating, radial
C_{ur}	13,000 N	Fatigue load limit, radial
n_G	10,100 1/min	Limiting speed
$n_{\vartheta r}$	5,600 1/min	Reference speed
	0.557 kg	Weight

Mounting dimensions

$d_{a\ min}$	52 mm	Minimum diameter shaft shoulder
$d_{a\ max}$	54 mm	Maximum diameter of shaft shoulder
$D_{a\ max}$	78 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	1 mm	Maximum recess radius
$d_{b\ min}$	50 mm	Minimum cavity diameter of the sleeve
$B_{a\ min}$	8 mm	Minimum cavity width of the sleeve

Dimensions

r_{min}	1.1 mm	Minimum chamfer dimension
D_1	75.6 mm	Bore diameter outer ring
d_2	55 mm	Raceway diameter of the inner ring
d_s	3.2 mm	Diameter lubrication hole
n_s	4.8 mm	Width of lubricating groove

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	200 °C	Operating temperature max.

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.

Calculation factors

e	0.25	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	2.74	Dynamic axial load factor
Y_2	4.08	Dynamic axial load factor
Y_0	2.68	Static axial load factor

Additional information

	H309	Adapter sleeve
	AH309	Withdrawal sleeve

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