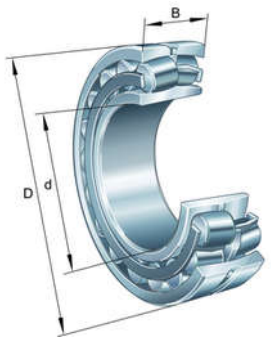
SCHAEFFLER



FAG

X-life

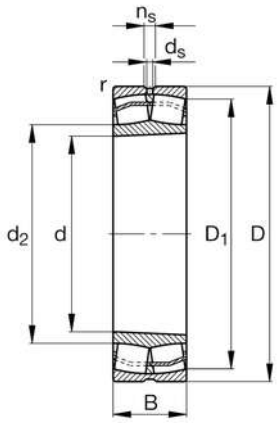
22218-E1-XL-K

Spherical roller bearing

Schaeffler ID:
0167040880000

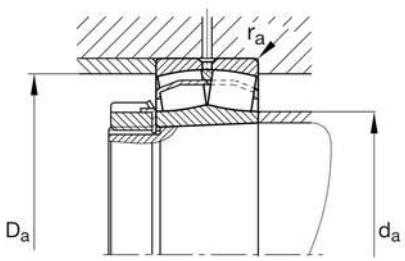
Spherical roller bearings 222..-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

Technical information



Main Dimensions & Performance Data

d	90 mm	Bore diameter
D	160 mm	Outside diameter
B	40 mm	Width
C_r	345,000 N	Basic dynamic load rating, radial
C_{0r}	375,000 N	Basic static load rating, radial
C_{ur}	43,500 N	Fatigue load limit, radial
n_G	5,200 1/min	Limiting speed
$n_{\vartheta r}$	3,400 1/min	Reference speed
	3.286 kg	Weight



Mounting dimensions

$d_{a\ min}$	101 mm	Minimum diameter shaft shoulder
$d_{a\ max}$	106 mm	Maximum diameter of shaft shoulder
$D_{a\ max}$	149 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	2 mm	Maximum recess radius
$d_{b\ min}$	96 mm	Minimum cavity diameter of the sleeve
$B_{a\ min}$	10 mm	Minimum cavity width of the sleeve

Dimensions

r_{min}	2 mm	Minimum chamfer dimension
D_1	143.9 mm	Bore diameter outer ring
d_2	106.1 mm	Raceway diameter of the inner ring
d_s	3.2 mm	Diameter lubrication hole
n_s	6.5 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.

SCHAEFFLER

Calculation factors

e	0.23	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	2.9	Dynamic axial load factor
Y_2	4.31	Dynamic axial load factor
Y_0	2.83	Static axial load factor

Additional information

	H318	Adapter sleeve
	AHX318	Withdrawal sleeve

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.