



FAG

22308-E1-XL-K

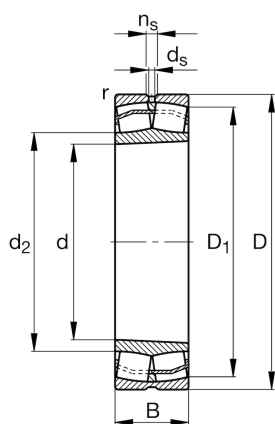
Spherical roller bearing

Schaeffler ID:
0167050170000

Spherical roller bearings 223...E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

X-life

Technical information



Main Dimensions & Performance Data

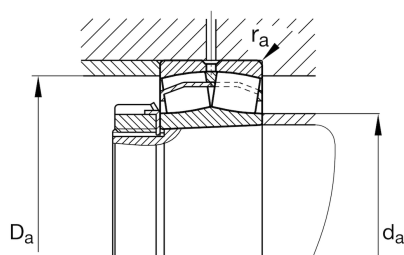
d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	33 mm	Width
C_r	156,000 N	Basic dynamic load rating, radial
C_{0r}	149,000 N	Basic static load rating, radial
C_{ur}	13,500 N	Fatigue load limit, radial
n_G	7,600 1/min	Limiting speed
n_{gr}	5,500 1/min	Reference speed
	0.997 kg	Weight

Dimensions

r_{min}	1.5 mm	Minimum chamfer dimension
D_1	76 mm	Bore diameter outer ring
d_2	52.4 mm	Raceway diameter of the inner ring
d_s	3.2 mm	Diameter lubrication hole
n_s	6.5 mm	Width of lubricating groove

Mounting dimensions

$d_{a min}$	49 mm	Minimum diameter shaft shoulder
$d_{a max}$	52 mm	Maximum diameter of shaft shoulder
$D_{a max}$	81 mm	Maximum diameter of housing shoulder
$r_{a max}$	1.5 mm	Maximum recess radius
$d_{b min}$	45 mm	Minimum cavity diameter of the sleeve
$B_{a min}$	5 mm	Minimum cavity width of the sleeve



Additional information

e	0.36	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
	H2308	Adapter sleeve
Y ₁	1.86	Dynamic axial load factor
	AH2308	Withdrawal sleeve
Y ₂	2.77	Dynamic axial load factor
Y ₀	1.82	Static axial load factor

Temperature range

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