

FAG

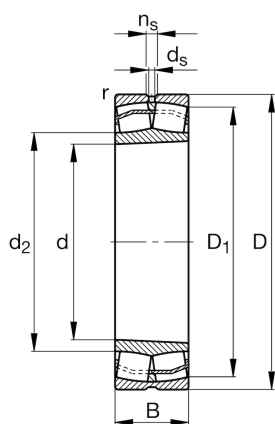
21311-E1-XL-K

Spherical roller bearing

Schaeffler ID:
0219425600000Spherical roller bearings 213..-E1-K, main
dimensions to DIN 635-2, with tapered
bore, taper 1:12

X-life

Technical information



Main Dimensions & Performance Data

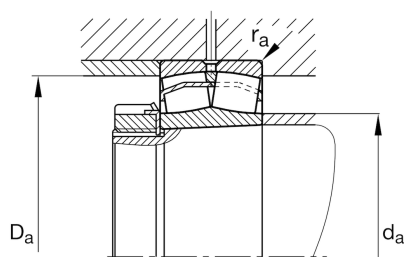
d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	29 mm	Width
C_r	160,000 N	Basic dynamic load rating, radial
C_{0r}	155,000 N	Basic static load rating, radial
C_{ur}	20,700 N	Fatigue load limit, radial
n_G	8,100 1/min	Limiting speed
n_{gr}	5,100 1/min	Reference speed
	1.6 kg	Weight

Dimensions

r_{min}	2 mm	Minimum chamfer dimension
D_1	98.3 mm	Bore diameter outer ring
d_2	71.6 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

$d_{a min}$	66 mm	Minimum diameter shaft shoulder
$d_{a max}$	71 mm	Maximum diameter of shaft shoulder
$D_{a max}$	109 mm	Maximum diameter of housing shoulder
$r_{a max}$	2 mm	Maximum recess radius
$d_{b min}$	60 mm	Minimum cavity diameter of the sleeve
$B_{a min}$	6 mm	Minimum cavity width of the sleeve



Additional information

e	0.23	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
	H311	Adapter sleeve
Y ₁	2.98	Dynamic axial load factor
	AHX311	Withdrawal sleeve
Y ₂	4.44	Dynamic axial load factor
Y ₀	2.92	Static axial load factor

Temperature range

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