



FAG

22311-E1-XL-K

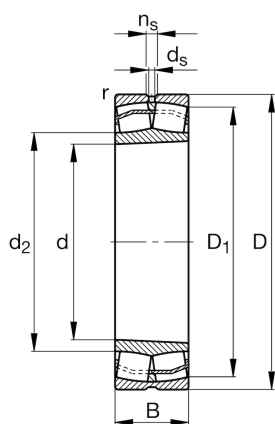
Spherical roller bearing

Schaeffler ID:
0190006260000

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

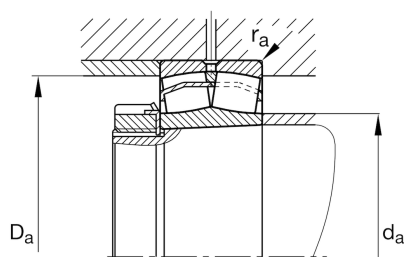
d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	43 mm	Width
C_r	265,000 N	Basic dynamic load rating, radial
C_{0r}	260,000 N	Basic static load rating, radial
C_{ur}	24,600 N	Fatigue load limit, radial
n_G	5,800 1/min	Limiting speed
n_{gr}	4,500 1/min	Reference speed
	2.301 kg	Weight

Dimensions

r_{min}	2 mm	Minimum chamfer dimension
D_1	101.4 mm	Bore diameter outer ring
d_2	68.9 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
$d_{a max}$	67 mm	Maximum diameter of shaft shoulder
$D_{a max}$	109 mm	Maximum diameter of housing shoulder
$r_{a max}$	2 mm	Maximum recess radius
$d_{b min}$	61 mm	Minimum cavity diameter of the sleeve
$B_{a min}$	6 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
	H2311	Adapter sleeve
Y ₁	1.89	Dynamic axial load factor
	AHX2311	Withdrawal sleeve
Y ₂	2.81	Dynamic axial load factor
Y ₀	1.84	Static axial load factor

Temperature range

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