

FAG

★ 22220-E1-XL-K

Spherical roller bearing

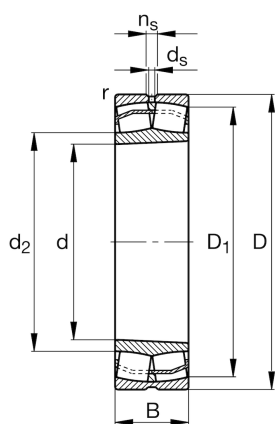
Schaeffler ID:
0167042310000

★ Preferred product

X-life

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

Technical information



Main Dimensions & Performance Data

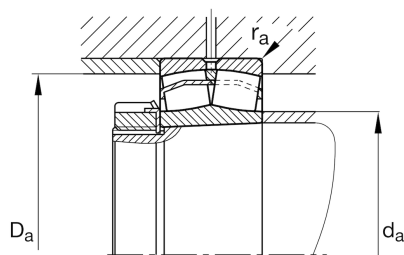
d	100 mm	Bore diameter
D	180 mm	Outside diameter
B	46 mm	Width
C_r	430.000 N	Basic dynamic load rating, radial
C_{0r}	475.000 N	Basic static load rating, radial
C_{ur}	53.000 N	Fatigue load limit, radial
n_G	4.550 1/min	Limiting speed
n_{gr}	3.150 1/min	Reference speed
	4,839 kg	Weight

Additional information

r_{min}	2,1 mm	Minimum chamfer dimension
	H320	Adapter sleeve
D_1	161,4 mm	Bore diameter outer ring
	AHX320	Withdrawal sleeve
d_2	119 mm	Raceway diameter of the inner ring
d_s	4,8 mm	Diameter lubrication hole
n_s	9,5 mm	Width of lubricating groove

Mounting dimensions

$d_{a min}$	112 mm	Minimum diameter shaft shoulder
$d_{a max}$	118 mm	Maximum diameter of shaft shoulder
$D_{a max}$	168 mm	Maximum diameter of housing shoulder
$r_{a max}$	2,1 mm	Maximum recess radius
$d_{b min}$	108 mm	Minimum cavity diameter of the sleeve
$B_{a min}$	8 mm	Minimum cavity width of the sleeve



Calculation factors

e	0,24	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	2,84	Dynamic axial load factor
Y ₂	4,23	Dynamic axial load factor
Y ₀	2,78	Static axial load factor

Temperature range

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