

FAG

23022-E1A-XL-K-M

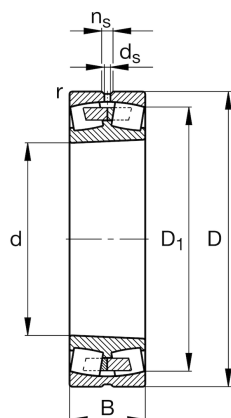
Spherical roller bearing

Schaeffler ID:
0386762730000

Spherical roller bearings 230..-E1A-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

X-life

Technical information



Main Dimensions & Performance Data

d	110 mm	Bore diameter
D	170 mm	Outside diameter
B	45 mm	Width
C_r	400.000 N	Basic dynamic load rating, radial
C_{0r}	530.000 N	Basic static load rating, radial
C_{ur}	54.000 N	Fatigue load limit, radial
n_G	4.200 1/min	Limiting speed
n_{gr}	3.000 1/min	Reference speed
	3,567 kg	Weight

Dimensions

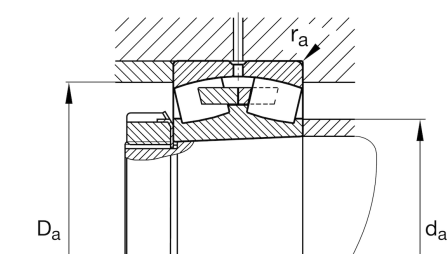
r_{min}	2 mm	Minimum chamfer dimension
D_1	154,6 mm	Bore diameter outer ring
d_s	3,2 mm	Diameter lubrication hole
n_s	6,5 mm	Width of lubricating groove

Mounting dimensions

$d_{a min}$	118,8 mm	Minimum diameter shaft shoulder
$D_{a max}$	161,2 mm	Maximum diameter of housing shoulder
$r_{a max}$	2 mm	Maximum recess radius
$d_{a max}$	123 mm	Maximum diameter of shaft shoulder
$d_{b min}$	118 mm	Minimum cavity diameter of the sleeve
$B_{a min}$	14 mm	Minimum cavity width of the sleeve

Calculation factors

e	0,23	Limiting value of F_a/F_r 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



Temperature range

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

Additional information

	H322	Adapter sleeve
	AHX322	Withdrawal sleeve