

FAG

21312-E1-XL-K-C3

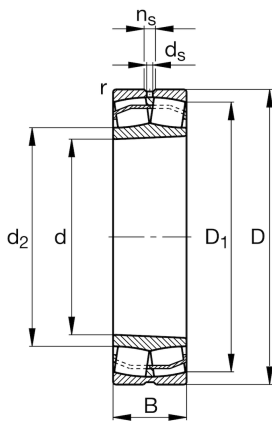
Spherical Roller Bearing

Schaeffler ID:
0219425870030

Spherical 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	60 mm	Bore diameter
D	130 mm	Outside diameter
B	31 mm	Width
C_r	211,000 N	Basic dynamic load rating, radial
C_{0r}	226,000 N	Basic static load rating, radial
C_{ur}	28,500 N	Fatigue load limit, radial
n_G	6,700 1/min	Limiting speed
n_{gr}	4,100 1/min	Reference speed
$\approx m$	2.036 kg	Weight

Mounting dimensions

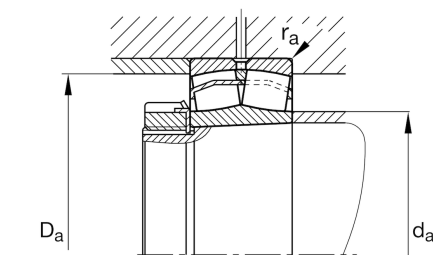
$d_{a \min}$	72 mm	Minimum diameter shaft shoulder
$d_{a \max}$	84 mm	Maximum diameter of shaft shoulder
$D_{a \max}$	118 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2.1 mm	Maximum recess radius
$d_{b \min}$	65 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	5 mm	Minimum cavity width of the sleeve

Dimensions

r_{\min}	2.1 mm	Minimum chamfer dimension
D_1	112.5 mm	Bore diameter outer ring
d_2	84.4 mm	Raceway diameter of the inner ring
d_s	3.2 mm	Diameter lubrication hole
n_s	6.5 mm	Width of lubricating groove

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	200 °C	Operating temperature max.



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	2.95	Dynamic axial load factor
Y_2	4.4	Dynamic axial load factor
Y_0	2.89	Static axial load factor

Additional information

H312	Adapter sleeve
AHX312	Withdrawal sleeve