

FAG

★ 21316-E1-XL-K

Spherical roller bearing

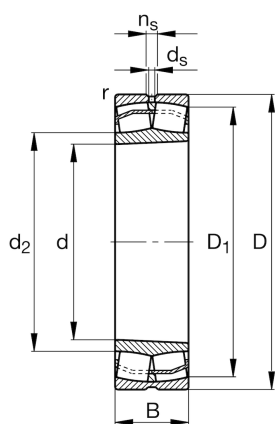
Schaeffler ID:
0219427060000

★ Preferred product

X-life

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

Technical information



Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	200 °C	Operating temperature max.
	4,366 kg	Weight

Main Dimensions & Performance Data

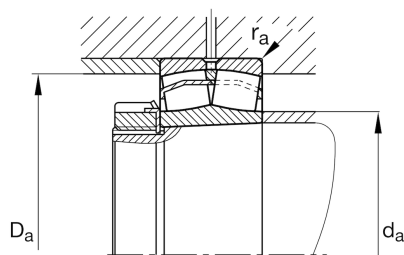
d	80 mm	Bore diameter
D	170 mm	Outside diameter
B	39 mm	Width
C_r	305.000 N	Basic dynamic load rating, radial
C_{0r}	325.000 N	Basic static load rating, radial
C_{ur}	39.000 N	Fatigue load limit, radial
n_G	5.700 1/min	Limiting speed
n_{gr}	4.050 1/min	Reference speed

Dimensions

r_{\min}	2,1 mm	Minimum chamfer dimension
D_1	135,4 mm	Bore diameter outer ring
d_2	99,8 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

$d_{a \min}$	92 mm	Minimum diameter shaft shoulder
$d_{a \max}$	99 mm	Maximum diameter of shaft shoulder
$D_{a \max}$	158 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,1 mm	Maximum recess radius
$d_{b \min}$	85 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	5 mm	Minimum cavity width of the sleeve



Additional information

e	0,22	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
	H316	Adapter sleeve
Y ₁	3,04	Dynamic axial load factor
	AH316	Withdrawal sleeve
Y ₂	4,53	Dynamic axial load factor
Y ₀	2,97	Static axial load factor