



FAG

★ 22309-E1-XL

Spherical roller bearing

Schaeffler ID:
0167050680000Spherical roller bearings 223...-E1, main
dimensions to DIN 635-2

★ Preferred product

X-life

Technical information



Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	200 °C	Operating temperature max.
	1,368 kg	Weight

Main Dimensions & Performance Data

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	36 mm	Width
C_r	187.000 N	Basic dynamic load rating, radial
C_{0r}	183.000 N	Basic static load rating, radial
C_{ur}	16.500 N	Fatigue load limit, radial
n_G	6.800 1/min	Limiting speed
n_{gr}	5.000 1/min	Reference speed

Dimensions

r_{min}	1,5 mm	Minimum chamfer dimension
D_1	84,7 mm	Bore diameter outer ring
d_2	58,9 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

$d_{a min}$	54 mm	Minimum diameter shaft shoulder
$D_{a max}$	91 mm	Maximum diameter of housing shoulder
$r_{a max}$	1,5 mm	Maximum recess radius

Additional information

e	0,36	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	1,9	Dynamic axial load factor
Y ₂	2,83	Dynamic axial load factor
Y ₀	1,86	Static axial load factor