



FAG

★ 23122-E1-XL-TVPB

Spherical roller bearing

Schaeffler ID:
0190013120000Spherical roller bearings 231...-E1, main
dimensions to DIN 635-2

★ Preferred product

X-life

Technical information



Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	120 °C	Operating temperature max.
	5,273 kg	Weight

Main Dimensions & Performance Data

d	110 mm	Bore diameter
D	180 mm	Outside diameter
B	56 mm	Width
C_r	530.000 N	Basic dynamic load rating, radial
C_{0r}	680.000 N	Basic static load rating, radial
C_{ur}	62.000 N	Fatigue load limit, radial
n_G	3.700 1/min	Limiting speed
n_{gr}	2.550 1/min	Reference speed

Dimensions

r_{min}	2 mm	Minimum chamfer dimension
D_1	160 mm	Bore diameter outer ring
d_2	124,6 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

$d_{a min}$	121 mm	Minimum diameter shaft shoulder
$D_{a max}$	169 mm	Maximum diameter of housing shoulder
$r_{a max}$	2 mm	Maximum recess radius

Additional information

e	0,28	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	2,39	Dynamic axial load factor
Y ₂	3,56	Dynamic axial load factor
Y ₀	2,34	Static axial load factor