

FAG**22308-E1-XL**

Spherical roller bearing

Schaeffler ID:
0167049910000Spherical roller bearings 223...-E1, main
dimensions to DIN 635-2**X-life**

Technical information

Main Dimensions & Performance Data

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	33 mm	Width
C _r	156.000 N	Basic dynamic load rating, radial
C _{0r}	149.000 N	Basic static load rating, radial
C _{ur}	13.500 N	Fatigue load limit, radial
n _G	7.600 1/min	Limiting speed
n _{gr}	5.500 1/min	Reference speed
	1,018 kg	Weight

Additional information

r _{min}	1,5 mm	Minimum chamfer dimension
D ₁	76 mm	Bore diameter outer ring
d ₂	52,4 mm	Raceway diameter of the inner ring
d _s	3,2 mm	Diameter lubrication hole
n _s	6,5 mm	Width of lubricating groove

Mounting dimensions

d _{a min}	49 mm	Minimum diameter shaft shoulder
D _{a max}	81 mm	Maximum diameter of housing shoulder
r _{a max}	1,5 mm	Maximum recess radius

Calculation factors

e	0,36	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	1,86	Dynamic axial load factor
Y ₂	2,77	Dynamic axial load factor
Y ₀	1,82	Static axial load factor

Temperature range

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