



FAG

21308-E1-XL

Spherical roller bearing

Schaeffler ID:
0219424630000Spherical roller bearings 213...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	23 mm	Width
C_r	109,000 N	Basic dynamic load rating, radial
C_{0r}	107,000 N	Basic static load rating, radial
C_{ur}	14,600 N	Fatigue load limit, radial
n_G	9,800 1/min	Limiting speed
n_{gr}	5,200 1/min	Reference speed
	0.722 kg	Weight

Dimensions

r_{min}	1.5 mm	Minimum chamfer dimension
D_1	80.8 mm	Bore diameter outer ring
d_2	59.9 mm	Raceway diameter of the inner ring
d_s	3.2 mm	Diameter lubrication hole
n_s	4.8 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

Additional information

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

Temperature range

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