



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

**Dimensions**

$r_{min}$	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

**Additional information**

e	0.36	Limiting value of $F_a/F_r$ 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 <sub>min</sub>	-30 °C	Operating temperature min.
T <sub>max</sub>	200 °C	Operating temperature max.