

FAG

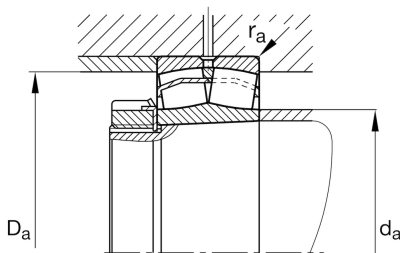
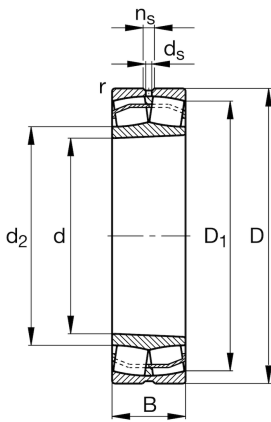
**21308-E1-XL-K**

## Spherical Roller Bearing

Spherical roller bearings 213...-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

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
$\approx m$	0,713 kg	Weight

**Mounting dimensions**

$d_{a \min}$	49 mm	Minimum diameter shaft shoulder
$d_{a \max}$	59 mm	Maximum diameter of shaft shoulder
$D_{a \max}$	81 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1,5 mm	Maximum recess radius
$d_{b \min}$	44 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	5 mm	Minimum cavity width of the sleeve

**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

**Temperature range**

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	200 °C	Operating temperature max.



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### Calculation factors

e	0,23	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y <sub>1</sub>	2,95	Dynamic axial load factor
Y <sub>2</sub>	4,4	Dynamic axial load factor
Y <sub>0</sub>	2,89	Static axial load factor

### Additional information

H308	Adapter sleeve
AH308	Withdrawal sleeve