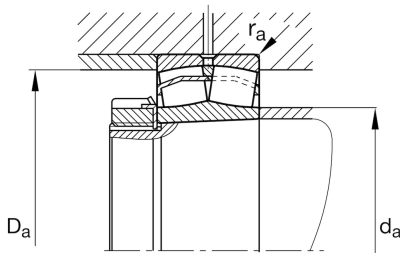
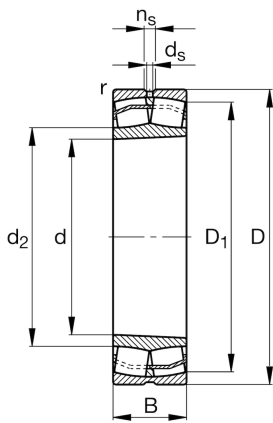




## Technical information



## 21312-E1-XL-K

### Spherical Roller Bearing

Schaeffler ID:  
0219425870000

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

### Main Dimensions & Performance Data

d	60 mm	Bore diameter
D	130 mm	Outside diameter
B	31 mm	Width
$C_r$	211,000 N	Basic dynamic load rating, radial
$C_{0r}$	226,000 N	Basic static load rating, radial
$C_{ur}$	28,500 N	Fatigue load limit, radial
$n_G$	6,700 1/min	Limiting speed
$n_{gr}$	4,100 1/min	Reference speed
$\approx m$	2.036 kg	Weight

### Mounting dimensions

$d_{a \min}$	72 mm	Minimum diameter shaft shoulder
$d_{a \max}$	84 mm	Maximum diameter of shaft shoulder
$D_{a \max}$	118 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2.1 mm	Maximum recess radius
$d_{b \min}$	65 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	5 mm	Minimum cavity width of the sleeve

### Dimensions

$r_{\min}$	2.1 mm	Minimum chamfer dimension
$D_1$	112.5 mm	Bore diameter outer ring
$d_2$	84.4 mm	Raceway diameter of the inner ring
$d_s$	3.2 mm	Diameter lubrication hole
$n_s$	6.5 mm	Width of lubricating groove

### Temperature range

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

**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**

H312	Adapter sleeve
AHX312	Withdrawal sleeve