

FAG

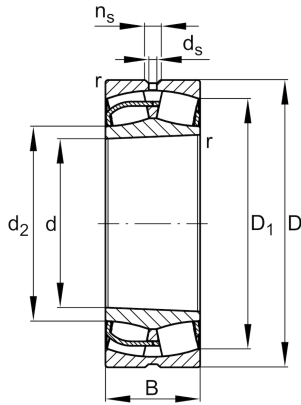
**24164-BE-XL-K30**

Spherical roller bearing

Schaeffler ID:  
0700274040000Spherical roller bearings 241...-BE-K30,  
main dimensions to DIN 635-2, with  
tapered bore, taper 1:30

X-life

## Technical information



## Main Dimensions &amp; Performance Data

d	320 mm	Bore diameter
D	540 mm	Outside diameter
B	218 mm	Width
$C_r$	4.600.000 N	Basic dynamic load rating, radial
$C_{0r}$	7.300.000 N	Basic static load rating, radial
$C_{ur}$	570.000 N	Fatigue load limit, radial
$n_G$	1.010 1/min	Limiting speed
$n_{gr}$	415 1/min	Reference speed
	196,5 kg	Weight

## Additional information

$r_{min}$	5 mm	Minimum chamfer dimension
$D_1$	455,5 mm	Bore diameter outer ring
	AH24164-H	Withdrawal sleeve
$d_2$	359 mm	Raceway diameter of the inner ring
$d_s$	9,5 mm	Diameter lubrication hole
$n_s$	17,7 mm	Width of lubricating groove

## Mounting dimensions

$d_{a min}$	340 mm	Minimum diameter shaft shoulder
$D_{a max}$	520 mm	Maximum diameter of housing shoulder
$r_{a max}$	4 mm	Maximum recess radius

## Calculation factors

e	0,4	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	1,69	Dynamic axial load factor
$Y_2$	2,52	Dynamic axial load factor
$Y_0$	1,65	Static axial load factor

**Temperature range**

T <sub>min</sub>	-30 °C	Operating temperature min.
T <sub>max</sub>	200 °C	Operating temperature max.