

**FAG****23940-S-K-MB-C4**

## Spherical Roller Bearing

Spherical roller bearings 239...-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

## Technical information



## Your current product variant

Bore type	K	Tapered, taper 1:12
Cage	MB	Solid brass cage
Radial internal clearance	C4 (Group 4)	Internal clearance larger than C3
Relubrication facility	S	With 3 lubricating holes and groove

## Main Dimensions &amp; Performance Data

d	200 mm	Bore diameter
D	280 mm	Outside diameter
B	60 mm	Width
$C_r$	550.000 N	Basic dynamic load rating, radial
$C_{0r}$	1.070.000 N	Basic static load rating, radial
$C_{ur}$	73.000 N	Fatigue load limit, radial
$n_G$	2.800 1/min	Limiting speed
$n_{gr}$	1.650 1/min	Reference speed
$m$	11,01 kg	Weight





### Mounting dimensions

$d_{a \min}$	210,2 mm	Minimum diameter shaft shoulder
$D_{a \max}$	269,8 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,1 mm	Maximum recess radius
$d_{a \max}$	220 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	210 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	9 mm	Minimum cavity width of the sleeve

### Dimensions

$r_{\min}$	2,1 mm	Minimum chamfer dimension
$D_1$	256,9 mm	Bore diameter outer ring
$d_s$	6,3 mm	Diameter lubrication hole
$n_s$	12,2 mm	Width of lubricating groove

### Temperature range

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

### Calculation factors

$e$	0,2	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	3,42	Dynamic axial load factor
$Y_2$	5,09	Dynamic axial load factor
$Y_0$	3,34	Static axial load factor

### Additional information

H3940	Adapter sleeve
AH3940	Withdrawal sleeve



### Characteristics

---



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed



Static angular error and misalignment



Dynamic angular error and misalignment