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26.06.2026, 22:23:01 KST

SCHAEFFLER

FAG

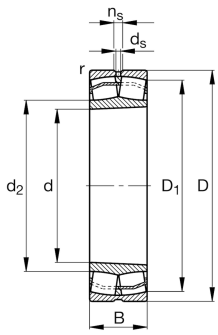
X-life

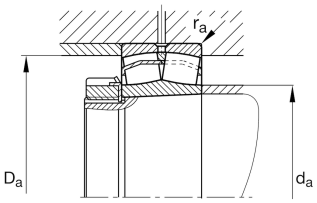
21315-E1-XL-K-C3

Spherical Roller Bearing

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

Technical information





Your current product variant

Design	E1	Without central rip
Bore type	K	Tapered, taper 1:12
Cage	JPA	Sheet metal cage
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Relubrication facility	Standard	

Main Dimensions & Performance Data

d	75 mm	Bore diameter
D	160 mm	Outside diameter
B	37 mm	Width
C_r	305.000 N	Basic dynamic load rating, radial
C_{0r}	325.000 N	Basic static load rating, radial
C_{ur}	39.000 N	Fatigue load limit, radial
n_G	5.700 1/min	Limiting speed
$n_{\vartheta r}$	3.750 1/min	Reference speed
≈m	2,653 kg	Weight

Mounting dimensions

$d_{a\ min}$	87 mm	Minimum diameter shaft shoulder
$d_{a\ max}$	99 mm	Maximum diameter of shaft shoulder
$D_{a\ max}$	148 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	2,1 mm	Maximum recess radius
$d_{b\ min}$	80 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	135,2 mm	Bore diameter outer ring
d_2	99,7 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	0,22	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	3,04	Dynamic axial load factor
Y_2	4,53	Dynamic axial load factor
Y_0	2,97	Static axial load factor

Additional information

	H315	Adapter sleeve
	AH315G	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