View product details on medias

26.12.2024, 06:07:02 UTC

SCHAEFFLER



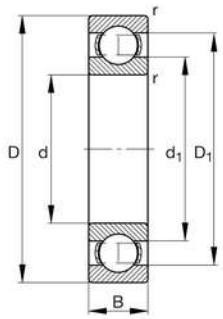
FAG

16005-A-C3

Deep groove ball bearing

Deep groove ball bearing 160..-A, single row, steel sheet metal cage

Technical information



Your current product variant

Changed internal design	A	Design variant A
Sealing	Without	Not sealed
Cage	JN	Steel sheet metal
Tolerance class	PN	Normal (PN)
Dimensional / heat stabilization	SN	Rings dimensional stabilized up to 120°
Lubricant	Without	Bearing not greased
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	25 mm	Bore diameter
D	47 mm	Outside diameter
B	8 mm	Width
C_r	8,860 N	Basic dynamic load rating, radial
C_{0r}	5,610 N	Basic static load rating, radial
C_{ur}	325 N	Fatigue load limit, radial
n_G	22,200 1/min	Limiting speed
$n_{\vartheta r}$	11,600 1/min	Reference speed
≈m	0.052 kg	Weight

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all further information and guidelines for this product.For further information you can use the contact form on our website

Mounting dimensions

$d_{a\ min}$	27 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	45 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	0.3 mm	Maximum fillet radius

Dimensions

r_{min}	0.3 mm	Minimum chamfer dimension
D_1	40.4 mm	Shoulder diameter outer ring
D_2	42.87 mm	Caliber diameter outer ring
d_1	32.5 mm	Shoulder diameter inner ring

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	120 °C	Operating temperature max.

Calculation factors

f_0	15.1	Calculation factor

Characteristics

- Radial load
- Axial load in one direction
- Axial load in two directions
- Grease Lubrication
- Oil Lubrication
- Not sealed

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all further information and guidelines for this product.For further information you can use the contact form on our website