

**FAG****6005-C-Z-C3>V**

Deep groove ball bearing

Deep groove ball bearing 60...-C-Z, single row, Generation C, shield, steel sheet metal cage

Technical information



Your current product variant

Version code	>V	Not marked on bearing
Changed internal design	C	GenerationC
Sealing	Z	Non-contact shield on one Side
Cage	JN	Steel sheet metal
Tolerance class	P6	Class 6 (ISO 492:2023)
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	12 mm	Width
C _r	12.600 N	Basic dynamic load rating, radial
C _{0r}	6.500 N	Basic static load rating, radial
C _{ur}	420 N	Fatigue load limit, radial
n _G	23.700 1/min	Limiting speed
n _{gr}	16.400 1/min	Reference speed
≈m	0,072 kg	Weight



Mounting dimensions

$d_{a \min}$	28,2 mm	Minimum diameter shaft shoulder
$D_{a \max}$	43,8 mm	Maximum diameter of housing shoulder
$r_{a \max}$	0,6 mm	Maximum fillet radius

Dimensions

r_{\min}	0,6 mm	Minimum chamfer dimension
D_1	40,73 mm	Shoulder diameter outer ring
D_2	42,66 mm	Caliber diameter outer ring
d_1	31,27 mm	Shoulder diameter inner ring
d_2	29,93 mm	Caliber diameter inner ring

Temperature range

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

Calculation factors

f_0	14,3	Calculation factor
-------	------	--------------------