

**FAG****6010-Z-C3**

Deep groove ball bearing

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

Technical information



Your current product variant

Sealing	Z	Non-contact shield on one Side
Cage	JN	Steel sheet metal
Tolerance class	PN	Normal (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	50 mm	Bore diameter
D	80 mm	Outside diameter
B	16 mm	Width
C _r	22.000 N	Basic dynamic load rating, radial
C _{0r}	15.800 N	Basic static load rating, radial
C _{ur}	800 N	Fatigue load limit, radial
n _G	12.200 1/min	Limiting speed
n _{gr}	8.900 1/min	Reference speed
≈m	0,26 kg	Weight



Mounting dimensions

$d_{a \min}$	54,6 mm	Minimum diameter shaft shoulder
$D_{a \max}$	75,4 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum fillet radius

Dimensions

r_{\min}	1 mm	Minimum chamfer dimension
D_1	70,2 mm	Shoulder diameter outer ring
D_2	72,94 mm	Caliber diameter outer ring
d_1	59,75 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	15,6	Calculation factor
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Characteristics

	Radial load
	Axial load in one direction
	Axial load in two directions
	Grease Lubrication
	Oil Lubrication
	Sealed on one side