

**FAG****16100-A-2Z**

Deep groove ball bearing

Deep groove ball bearing 161...-2Z, single row, shields, steel sheet metal cage

Technical information



Your current product variant

Changed internal design	A	Design variant A
Sealing	2Z	Non-contact shield on both sides
Cage	JN	Steel sheet metal
Tolerance class	PN	Normal (ISO 492:2023)
Dimensional / heat stabilization	SN	Rings dimensional stabilized up to 120°
Lubricant	Lubricating grease	
Radial internal clearance	CN (Group N)	Normal internal clearance
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	10 mm	Bore diameter
D	28 mm	Outside diameter
B	8 mm	Width
C_r	4,850 N	Basic dynamic load rating, radial
C_{0r}	1,970 N	Basic static load rating, radial
C_{ur}	145 N	Fatigue load limit, radial
n_G	34,500 1/min	Limiting speed
n_{gr}	28,500 1/min	Reference speed
m	0.025 kg	Weight



Mounting dimensions

$d_{a \min}$	12.4 mm	Minimum diameter shaft shoulder
$D_{a \max}$	25.6 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	21.08 mm	Shoulder diameter outer ring
D_2	22.7 mm	Caliber diameter outer ring
d_1	14.65 mm	Shoulder diameter inner ring

Temperature range

T_{\min}	-20 °C	Operating temperature min.
T_{\max}	120 °C	Operating temperature max.

Calculation factors

f_0	12.4	Calculation factor
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Characteristics

-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Lifetime lubrication, freedom from maintenance
-  Grease Lubrication
-  Sealed on both sides