



FAG

61856-C2 [🔗](#)

Deep groove ball bearing

Deep groove ball bearing 618, single row,
steel sheet metal cage

Technical information



Your current product variant

Type of Seal	Without	Not sealed
Cage	JN	Steel sheet metal
Tolerance class	PN	Normal (ISO 492:2023)
Dimensional / heat stabilization	S1	Rings dimensional stabilized up to 200°
Lubricant	Without	Bearing not greased
Radial internal clearance	C2 (Group 2)	Internal clearance smaller than CN
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	280 mm	Bore diameter
D	350 mm	Outside diameter
B	33 mm	Width
C _r	129.000 N	Basic dynamic load rating, radial
C _{0r}	176.000 N	Basic static load rating, radial
C _{ur}	5.900 N	Fatigue load limit, radial
n _G	2.430 1/min	Limiting speed
n _{gr}	1.950 1/min	Reference speed
≈m	6,18 kg	Weight



Mounting dimensions

$d_{a\min}$	288,8 mm	Minimum diameter shaft shoulder
$D_{a\max}$	341,2 mm	Maximum diameter of housing shoulder
$r_{a\max}$	2 mm	Maximum fillet radius

Dimensions

$r_{\min}$	2 mm	Minimum chamfer dimension
D_1	328,9 mm	Shoulder diameter outer ring
d_1	302,3 mm	Shoulder diameter inner ring

Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	200 °C	Operating temperature max.

Calculation factors

f_0	16	Calculation factor
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Characteristics

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