



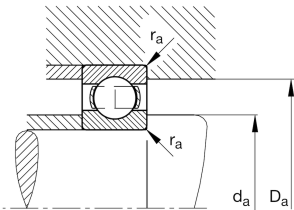
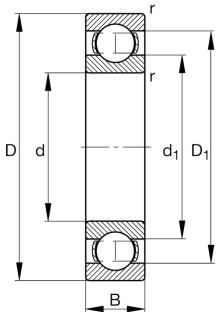
FAG

61813-Y

Deep groove ball bearing

Deep groove ball bearing 618..-Y, single row, brass sheet metal cage

Technical information



Your current product variant

Sealing	Without	Not sealed
Cage	Y	Brass 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	CN (Group N)	Normal internal clearance
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	65 mm	Bore diameter
D	85 mm	Outside diameter
B	10 mm	Width
C _r	13,000 N	Basic dynamic load rating, radial
C _{0r}	12,000 N	Basic static load rating, radial
C _{ur}	780 N	Fatigue load limit, radial
n _G	14,700 1/min	Limiting speed
n _{gr}	5,700 1/min	Reference speed
≈m	0.136 kg	Weight



Mounting dimensions

$d_{a\ min}$	68.2 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	81.8 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	78.4 mm	Shoulder diameter outer ring
D_2	80.5 mm	Caliber diameter outer ring
d_1	71.6 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	16.2	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