

**FAG****61888-M-C3**

Deep groove ball bearing

Deep groove ball bearing 618..-M, single row, solid brass cage

Technical information



Your current product variant

Sealing	Without	Not sealed
Cage	M	Solid brass cage, rolling element guided
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	C3 (Group 3)	Internal clearance larger than CN
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	440 mm	Bore diameter
D	540 mm	Outside diameter
B	46 mm	Width
C_r	227.000 N	Basic dynamic load rating, radial
C_{0r}	355.000 N	Basic static load rating, radial
C_{ur}	9.200 N	Fatigue load limit, radial
n_G	1.980 1/min	Limiting speed
n_{gr}	1.190 1/min	Reference speed
m	23,5 kg	Weight



Mounting dimensions

$d_{a \min}$	450,2 mm	Minimum diameter shaft shoulder
$D_{a \max}$	529,8 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,1 mm	Maximum fillet radius

Dimensions

r_{\min}	2,1 mm	Minimum chamfer dimension
D_1	505,95 mm	Shoulder diameter outer ring
d_1	474,1 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	15,9	Calculation factor
-------	------	--------------------

Characteristics

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