

**FAG****618/500-MA-C4**

Deep groove ball bearing

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

Technical information



Your current product variant

Type of Seal	Without	Not sealed
Cage	MA	Solid brass cage, outer ring 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	C4 (Group 4)	Internal clearance larger than C3
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	500 mm	Bore diameter
D	620 mm	Outside diameter
B	56 mm	Width
C_r	295.000 N	Basic dynamic load rating, radial
C_{0r}	510.000 N	Basic static load rating, radial
C_{ur}	12.700 N	Fatigue load limit, radial
n_G	1.710 1/min	Limiting speed
n_{gr}	1.060 1/min	Reference speed
m	38,6 kg	Weight



Mounting dimensions

$d_{a \min}$	512,4 mm	Minimum diameter shaft shoulder
$D_{a \max}$	607,6 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,5 mm	Maximum fillet radius

Dimensions

r_{\min}	3 mm	Minimum chamfer dimension
D_1	582 mm	Shoulder diameter outer ring
d_1	540,4 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	15,8	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