

**FAG****619/500-MA-C3**

Deep groove ball bearing

Deep groove ball bearing 619..-MA, single row, solid brass cage

Technical information



Your current product variant

Sealing	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	C3 (Group 3)	Internal clearance larger than CN
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	500 mm	Bore diameter
D	670 mm	Outside diameter
B	78 mm	Width
C_r	440.000 N	Basic dynamic load rating, radial
C_{0r}	810.000 N	Basic static load rating, radial
C_{ur}	18.700 N	Fatigue load limit, radial
n_G	1.580 1/min	Limiting speed
n_{gr}	1.080 1/min	Reference speed
$\approx m$	81 kg	Weight



Mounting dimensions

$d_{a \min}$	518 mm	Minimum diameter shaft shoulder
$D_{a \max}$	652 mm	Maximum diameter of housing shoulder
$r_{a \max}$	4 mm	Maximum fillet radius

Dimensions

r_{\min}	5 mm	Minimum chamfer dimension
D_1	616,9 mm	Shoulder diameter outer ring
d_1	555 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	16,5	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