

**FAG****71888-MP-P5-UL**

Angular contact ball bearing

Angular contact ball bearing 718...-MP, single row, solid brass cage



Technical information

**Your current product variant**

Sealing	Without	Not sealed
Cage	MP	Solid brass cage, ball guided
Tolerance class	P5	Class 5 (ISO 492:2023)
Dimensional / heat stabilization	S1	Rings dimensional stabilized up to 200°
Bearing with matched conditions for fitting in pairs	UL	Bearing set with light preload
Lubricant	Without	Bearing not greased

Main Dimensions & Performance Data

d	440 mm	Bore diameter
D	540 mm	Outside diameter
B	46 mm	Width
C_r	310.000 N	Basic dynamic load rating, radial
C_{0r}	570.000 N	Basic static load rating, radial
C_{ur}	14.900 N	Fatigue load limit, radial
n_G	1.670 1/min	Limiting speed
n_{gr}	910 1/min	Reference speed
$\approx m$	21,3 kg	Weight



Mounting dimensions

$d_{a \min}$	450,2 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	529,8 mm	Maximum diameter of housing shoulder
$D_{b \max}$	534 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,1 mm	Maximum fillet radius of shaft
$r_{a1 \max}$	1 mm	Maximum fillet radius of housing

Dimensions

r_{\min}	2,1 mm	Minimum chamfer dimension
$r_{1 \min}$	1,1 mm	Minimum chamfer dimension
D_1	503,6 mm	Shoulder diameter on outer ring wide side face
d_1	478,4 mm	Shoulder diameter on inner ring wide side face
a	164,5 mm	Distance between the apexes of the pressure cones
α	30 °	Contact angle

Temperature range

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

Additional information

V_{\max}	-12 μm	Preload per set max.
Tol (+)	18 μm	Tolerance for axial clearance or preload per set
$F_{V \max}$	2.385 N	Preload force



Characteristics

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