

**FAG****718/1400-MPB-P5-UL**

Angular contact ball bearing

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

Technical information



Your current product variant

Sealing	Without	Not sealed
Cage	MPB	Solid brass cage, inner ring 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	1.400 mm	Bore diameter
D	1.700 mm	Outside diameter
B	132 mm	Width
C _r	1.540.000 N	Basic dynamic load rating, radial
C _{0r}	5.700.000 N	Basic static load rating, radial
C _{ur}	85.000 N	Fatigue load limit, radial
n _G	480 1/min	Limiting speed
n _{gr}	214 1/min	Reference speed
≈m	600 kg	Weight



Mounting dimensions

$d_{a \min}$	1.428 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	1.672 mm	Maximum diameter of housing shoulder
$D_{b \max}$	1.685,4 mm	Maximum diameter of housing shoulder
$r_{a \max}$	6 mm	Maximum fillet radius of shaft
$r_{a1 \max}$	3 mm	Maximum fillet radius of housing

Dimensions

r_{\min}	7,5 mm	Minimum chamfer dimension
$r_{1 \min}$	4 mm	Minimum chamfer dimension
D_1	1.592,9 mm	Shoulder diameter on outer ring wide side face
d_1	1.512,02 mm	Shoulder diameter on inner ring wide side face
a	513,4 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}	-26 μm	Preload per set max.
Tol (+)	30 μm	Tolerance for axial clearance or preload per set
$F_{V \max}$	11.846 N	Preload force



Characteristics

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