



FAG

M71912-C-T-P4S-UL-XL

High speed spindle bearing

High speed spindle bearing M719...-C, adjusted, in pairs or sets, contact angle $\alpha = 17^\circ$, restricted tolerances

X-life

Technical information



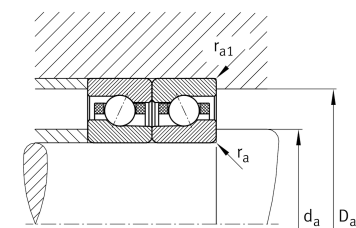
Your current product variant

Contact angle	Contact angle 17°	Contact angle 17°
Sealing	Without	Not sealed
Cage	T	Laminated fabric cage
Tolerance class	P4S	Tolerance class P4S, FAG standard better than P4 to ISO 492:2023
Arrangement bearing set	U	Single bearing
Preload	L	Preload light



Main Dimensions & Performance Data

d	60 mm	Bore diameter
D	85 mm	Outside diameter
B	13 mm	Width
C _r	19.400 N	Basic dynamic load rating, radial
C _{0r}	11.000 N	Basic static load rating, radial
C _{ur}	1.160 N	Fatigue load limit, radial
n _G Grease	22.000 1/min	Limiting speed for grease lubrication
n _G Oil	34.000 1/min	Limiting speed for oil lubrication
n _G	34.000 1/min	Limiting speed
≈m	174,02 g	Weight





Mounting dimensions

d_a	65 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	80,5 mm	Shoulder diameter outer ring
D_a	H12	Shoulder diameter outer ring clearance
$r_{a \max}$	0,6 mm	Maximum recess radius
$r_{a1 \max}$	0,3 mm	Maximum recess radius
$E_{tk \min}$	67,7 mm	Minimum diameter injection pitch
$E_{tk \max}$	70 mm	Maximum diameter injection pitch
$E_{tk1 \min}$	64,7 mm	Minimum diameter injection pitch
$E_{tk1 \max}$	70 mm	Maximum diameter injection pitch
a	17,6 mm	Distance between the apexes of the pressure cones

Dimensions

r_{\min}	1 mm	Minimum chamfer dimension
$r_{1 \min}$	0,6 mm	Minimum chamfer dimension
α	17 °	Contact angle

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	100 °C	Operating temperature max.



Additional information

F_{VL}	116 N	Preload force light
F_{VM}	306 N	Preload force medium
F_{VH}	645 N	Preload force heavy
K_{aEL}	340 N	Lift-off force light
K_{aEM}	931 N	Lift-off force medium
K_{aEH}	2.038 N	Lift-off force heavy
c_{aL}	55 N/ μ m	Axial rigidity light
c_{aM}	80 N/ μ m	Axial rigidity medium
c_{aH}	110 N/ μ m	Axial rigidity heavy

Characteristics

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