

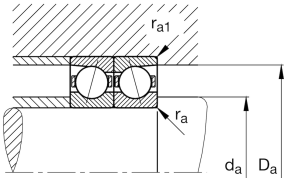
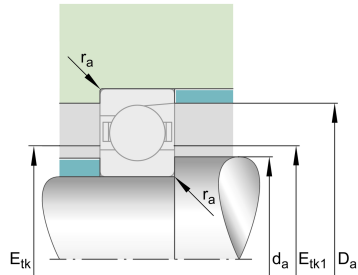
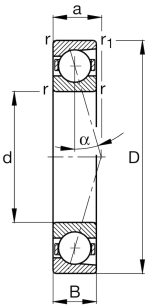
FAG

B71911-E-T-P4S-UL

Spindle bearing

Spindle bearing B719...-E, adjusted, in pairs or sets, contact angle $\alpha = 25^\circ$, restricted tolerances

Technical information



Your current product variant

Preload	L	Preload light
Contact angle	E	Contact angle 25°
Tolerance class	P4S	Tolerance class P4S, FAG standard better than P4 to ISO 492:2023
Type of Seal	Without	Not sealed
Cage	T	Laminated fabric cage
Arrangement bearing set	U	Single bearing

Main Dimensions & Performance Data

d	55 mm	Bore diameter
D	80 mm	Outside diameter
B	13 mm	Width
C _r	22.200 N	Basic dynamic load rating, radial
C _{0r}	13.700 N	Basic static load rating, radial
C _{ur}	1.450 N	Fatigue load limit, radial
n _{G Grease}	15.000 1/min	Limiting speed for grease lubrication
n _{G Oil}	24.000 1/min	Limiting speed for oil lubrication
≈m	174,2 g	Weight



Mounting dimensions

d_a	60 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	75,5 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
$E_{tk \min}$	62,8 mm	Minimum diameter injection pitch
$E_{tk \max}$	65,1 mm	Maximum diameter injection pitch
$E_{tk1 \min}$	62,8 mm	Minimum diameter injection pitch
$E_{tk1 \max}$	65,1 mm	Maximum diameter injection pitch
a	22,2 mm	Distance between the apexes of the pressure cones

Dimensions

$r_{\min}$	1 mm	Minimum chamfer dimension
$r_{1 \min}$	1 mm	Minimum chamfer dimension
α	25 °	Contact angle

Temperature range

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



Additional information

F_{VL}	149 N	Preload force light
F_{VM}	588 N	Preload force medium
F_{VH}	1.278 N	Preload force heavy
K_{aEL}	431 N	Lift-off force light
K_{aEM}	1.768 N	Lift-off force medium
K_{aEH}	3.973 N	Lift-off force heavy
c_{aL}	115 N/ μ m	Axial rigidity light
c_{aM}	193 N/ μ m	Axial rigidity medium
c_{aH}	266 N/ μ m	Axial rigidity heavy

Characteristics

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Radial load
- 

Axial load in one direction
- 

Grease Lubrication
- 

Oil Lubrication
- 

Not sealed