

**FAG****B71904-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
Sealing	Without	Not sealed
Cage	T	Laminated fabric cage
Arrangement bearing set	U	Single bearing

Main Dimensions & Performance Data

d	20 mm	Bore diameter
D	37 mm	Outside diameter
B	9 mm	Width
C_r	7.000 N	Basic dynamic load rating, radial
C_{0r}	3.050 N	Basic static load rating, radial
C_{ur}	325 N	Fatigue load limit, radial
n_G Grease	38.000 1/min	Limiting speed for grease lubrication
$n_{G\text{ Oil}}$	60.000 1/min	Limiting speed for oil lubrication
$\approx m$	0,04 kg	Weight





Mounting dimensions

d _a	24 mm	Diameter shaft shoulder
d _a	h12	Diameter shaft shoulder clearance
D _a	33,5 mm	Shoulder diameter outer ring
D _a	H12	Shoulder diameter outer ring clearance
r _a max	0,3 mm	Maximum recess radius
r _{a1} max	0,15 mm	Maximum recess radius
E _{tk} min	26 mm	Minimum diameter injection pitch
E _{tk} max	27,1 mm	Maximum diameter injection pitch
E _{tk1} min	26 mm	Minimum diameter injection pitch
E _{tk1} max	27,1 mm	Maximum diameter injection pitch
a	11,1 mm	Distance between the apexes of the pressure cones

Dimensions

r _{min}	0,3 mm	Minimum chamfer dimension
r ₁ min	0,3 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}	37 N	Preload force light
F_{VM}	170 N	Preload force medium
F_{VH}	384 N	Preload force heavy
K_{aEL}	108 N	Lift-off force light
K_{aEM}	516 N	Lift-off force medium
K_{aEH}	1.208 N	Lift-off force heavy
c_{aL}	47 N/μm	Axial rigidity light
c_{aM}	83 N/μm	Axial rigidity medium
c_{aH}	117 N/μm	Axial rigidity heavy

Characteristics

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F_r Radial load
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F_a Axial load in one direction
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Grease Lubrication
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Oil Lubrication
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Not sealed