

**FAG****B7211-C-T-P4S-UL**

Spindle bearing

Spindle bearing B72...-C, adjusted, in pairs or sets, contact angle $\alpha = 15^\circ$, restricted tolerances

Technical information



Your current product variant

Preload	L	Preload light
Contact angle	C	Contact angle 15°
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	55 mm	Bore diameter
D	100 mm	Outside diameter
B	21 mm	Width
C_r	47.000 N	Basic dynamic load rating, radial
C_{0r}	26.500 N	Basic static load rating, radial
C_{ur}	2.800 N	Fatigue load limit, radial
$n_{G \text{ Grease}}$	14.000 1/min	Limiting speed for grease lubrication
$n_{G \text{ Oil}}$	22.000 1/min	Limiting speed for oil lubrication
$\approx m$	0,612 kg	Weight





Mounting dimensions

d _a	63 mm	Diameter shaft shoulder
d _a	h12	Diameter shaft shoulder clearance
D _a	92 mm	Shoulder diameter outer ring
D _a	H12	Shoulder diameter outer ring clearance
r _a max	1,5 mm	Maximum recess radius
r _{a1} max	0,6 mm	Maximum recess radius
E _{tk} min	69,9 mm	Minimum diameter injection pitch
E _{tk} max	74,3 mm	Maximum diameter injection pitch
E _{tk1} min	69,9 mm	Minimum diameter injection pitch
E _{tk1} max	74,3 mm	Maximum diameter injection pitch
a	20,9 mm	Distance between the apexes of the pressure cones

Dimensions

r _{min}	1,5 mm	Minimum chamfer dimension
r ₁ min	1,5 mm	Minimum chamfer dimension
α	15 °	Contact angle

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	100 °C	Operating temperature max.



Additional information

F_{VL}	258 N	Preload force light
F_{VM}	832 N	Preload force medium
F_{VH}	1.662 N	Preload force heavy
K_{aEL}	800 N	Lift-off force light
K_{aEM}	2.800 N	Lift-off force medium
K_{aEH}	5.985 N	Lift-off force heavy
c_{aL}	67 N/ μ m	Axial rigidity light
c_{aM}	114 N/ μ m	Axial rigidity medium
c_{aH}	163 N/ μ m	Axial rigidity heavy

Characteristics

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