

**FAG****B7210-E-T-P4S-UL**

Spindle bearing

Spindle bearing B72...-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	50 mm	Bore diameter
D	90 mm	Outside diameter
B	20 mm	Width
C_r	41.000 N	Basic dynamic load rating, radial
C_{0r}	21.400 N	Basic static load rating, radial
C_{ur}	2.260 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
$\approx m$	0,463 kg	Weight





Mounting dimensions

d_a	57 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	83 mm	Shoulder diameter outer ring
D_a	H12	Shoulder diameter outer ring clearance
$r_{a \max}$	1 mm	Maximum recess radius
$r_{a1 \max}$	0,6 mm	Maximum recess radius
$E_{tk \min}$	62,4 mm	Minimum diameter injection pitch
$E_{tk \max}$	66,8 mm	Maximum diameter injection pitch
$E_{tk1 \min}$	62,4 mm	Minimum diameter injection pitch
$E_{tk1 \max}$	66,8 mm	Maximum diameter injection pitch
a	26,3 mm	Distance between the apexes of the pressure cones

Dimensions

$r_{\min}$	1,1 mm	Minimum chamfer dimension
$r_{1 \min}$	1,1 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}	352 N	Preload force light
F_{VM}	1.221 N	Preload force medium
F_{VH}	2.553 N	Preload force heavy
K_{aEL}	1.027 N	Lift-off force light
K_{aEM}	3.697 N	Lift-off force medium
K_{aEH}	8.006 N	Lift-off force heavy
c_{aL}	138 N/ μ m	Axial rigidity light
c_{aM}	223 N/ μ m	Axial rigidity medium
c_{aH}	303 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