

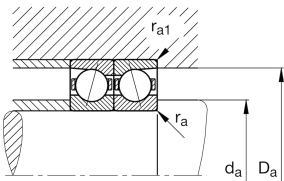
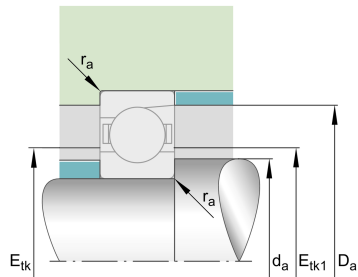
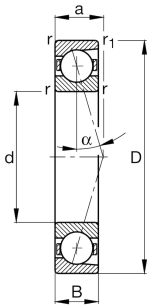
FAG

B7021-E-T-P4S-UL

Spindle bearing

Spindle bearing B70...-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	105 mm	Bore diameter
D	160 mm	Outside diameter
B	26 mm	Width
C _r	80.000 N	Basic dynamic load rating, radial
C _{0r}	58.000 N	Basic static load rating, radial
C _{ur}	5.300 N	Fatigue load limit, radial
n _{G Grease}	7.500 1/min	Limiting speed for grease lubrication
n _{G Oil}	12.000 1/min	Limiting speed for oil lubrication
≈m	1,571 kg	Weight



Mounting dimensions

d_a	116 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	150 mm	Shoulder diameter outer ring
D_a	H12	Shoulder diameter outer ring clearance
$r_{a \max}$	2 mm	Maximum recess radius
$r_{a1 \max}$	1 mm	Maximum recess radius
$E_{tk \min}$	123 mm	Minimum diameter injection pitch
$E_{tk \max}$	128,3 mm	Maximum diameter injection pitch
$E_{tk1 \min}$	123 mm	Minimum diameter injection pitch
$E_{tk1 \max}$	128,3 mm	Maximum diameter injection pitch
a	43,9 mm	Distance between the apexes of the pressure cones

Dimensions

$r_{\min}$	2 mm	Minimum chamfer dimension
$r_{1 \min}$	2 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}	691 N	Preload force light
F_{VM}	2.377 N	Preload force medium
F_{VH}	4.959 N	Preload force heavy
K_{aEL}	2.010 N	Lift-off force light
K_{aEM}	7.133 N	Lift-off force medium
K_{aEH}	15.359 N	Lift-off force heavy
c_{aL}	251 N/ μ m	Axial rigidity light
c_{aM}	399 N/ μ m	Axial rigidity medium
c_{aH}	539 N/ μ m	Axial rigidity heavy

Characteristics

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Radial load
- 

Axial load in one direction
- 

Grease Lubrication
- 

Oil Lubrication
- 

Not sealed