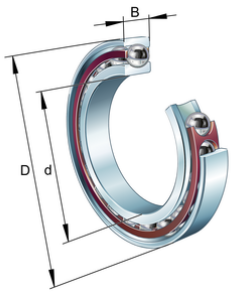


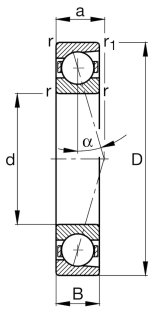
FAG

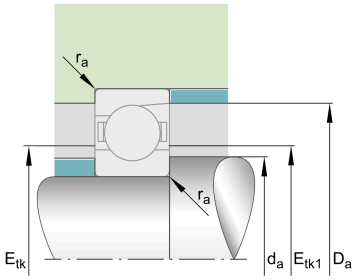
B7011-E-T-P4S-UL

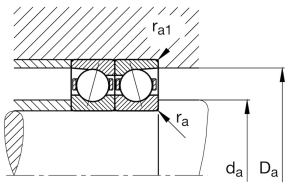
Spindle bearing

Spindle bearing B70..-E, adjusted, in pairs or sets, contact angle α = 25°, 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	90 mm	Outside diameter
B	18 mm	Width
C_r	37.000 N	Basic dynamic load rating, radial
C_{0r}	21.000 N	Basic static load rating, radial
C_{ur}	2.230 N	Fatigue load limit, radial
n_G Grease	14.000 1/min	Limiting speed for grease lubrication
n_G Oil	22.000 1/min	Limiting speed for oil lubrication
≈m	371,18 g	Weight

Mounting dimensions

d_a	62 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
$E_{tk\ min}$	65,9 mm	Minimum diameter injection pitch
$E_{tk\ max}$	69,6 mm	Maximum diameter injection pitch
$E_{tk1\ min}$	65,9 mm	Minimum diameter injection pitch
$E_{tk1\ max}$	69,6 mm	Maximum diameter injection pitch
a	25,9 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

$F_{V\,L}$	296 N	Preload force light
$F_{V\,M}$	1.059 N	Preload force medium
$F_{V\,H}$	2.234 N	Preload force heavy
$K_{aE\,L}$	862 N	Lift-off force light
$K_{aE\,M}$	3.197 N	Lift-off force medium
$K_{aE\,H}$	6.983 N	Lift-off force heavy
$c_{a\,L}$	142 N/µm	Axial rigidity light
$c_{a\,M}$	230 N/µm	Axial rigidity medium
$c_{a\,H}$	314 N/µm	Axial rigidity heavy

Characteristics

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