

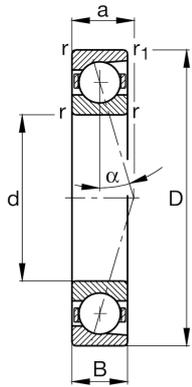
FAG

B7004-C-T-P4S-UL

Spindle bearing

Schaeffler ID:
0190035280000Spindle bearings B70...C, adjusted, in pairs or sets, contact angle $\alpha = 15^\circ$, restricted tolerances

Technical information



Main Dimensions & Performance Data

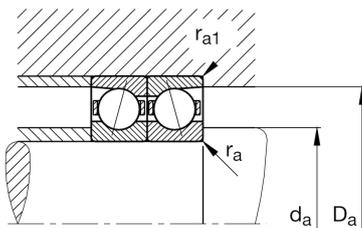
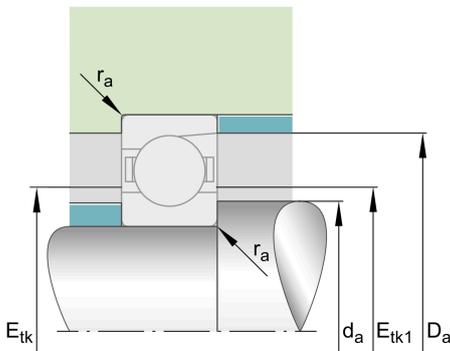
d	0,787 in	Bore diameter
D	1,654 in	Outside diameter
B	0,472 in	Width
C_r	2.315,647 lbf	Basic dynamic load rating, radial
C_{0r}	955,486 lbf	Basic static load rating, radial
C_{ur}	101,169 lbf	Fatigue load limit, radial
$n_{G \text{ Grease}}$	38.000 1/min	Limiting speed for grease lubrication
$n_{G \text{ Oil}}$	60.000 1/min	Limiting speed for oil lubrication
	0,154 lbs	Weight

Mounting dimensions

d_a	0,984 in	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	1,457 in	Shoulder diameter outer ring
D_a	H12	Shoulder diameter outer ring clearance
$r_{a \text{ max}}$	0,024 in	Maximum recess radius
$r_{a1 \text{ max}}$	0,012 in	Maximum recess radius
$E_{tk \text{ min}}$	1,094 in	Minimum diameter injection pitch
$E_{tk \text{ max}}$	1,154 in	Maximum diameter injection pitch
$E_{tk1 \text{ min}}$	1,094 in	Minimum diameter injection pitch
$E_{tk1 \text{ max}}$	1,154 in	Maximum diameter injection pitch
a	0,402 in	Distance between the apexes of the pressure cones

Dimensions

r_{min}	0,024 in	Minimum chamfer dimension
$r_{1 \text{ min}}$	0,024 in	Minimum chamfer dimension
α	15 °	Contact angle



Temperature range

T_{\min}	-22 °F	Operating temperature min.
T_{\max}	212 °F	Operating temperature max.

Additional information

F_{VL}	11,466 lbf	Preload force light
F_{VM}	39,344 lbf	Preload force medium
F_{VH}	80,036 lbf	Preload force heavy
K_{aEL}	35,297 lbf	Lift-off force light
K_{aEM}	131,745 lbf	Lift-off force medium
K_{aEH}	286,871 lbf	Lift-off force heavy
c_{aL}	22,6 N/μm	Axial rigidity light
c_{aM}	39,4 N/μm	Axial rigidity medium
c_{aH}	56,8 N/μm	Axial rigidity heavy