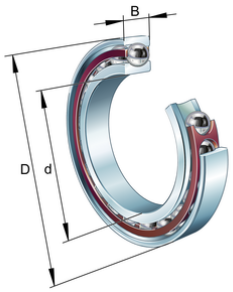
SCHAEFFLER



FAG

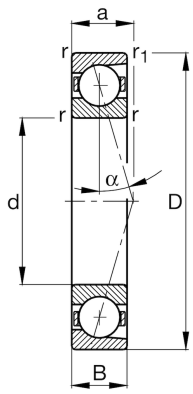
B7017-C-T-P4S-UL

Spindle bearing

Schaeffler ID:
0191520000000

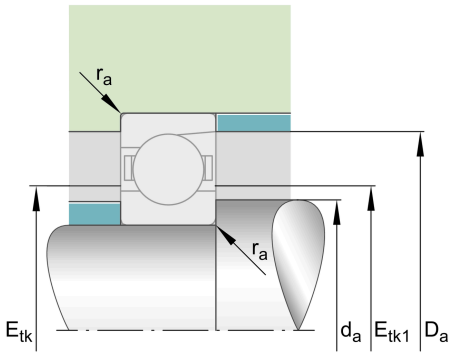
Spindle bearings B70..-C, adjusted, in pairs or sets, contact angle α = 15°, restricted tolerances

Technical information



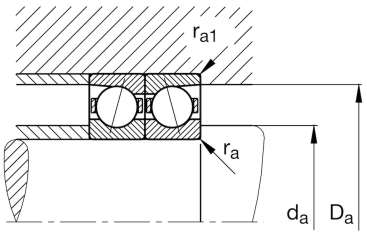
Main Dimensions & Performance Data

d	3,346 in	Bore diameter
D	5,118 in	Outside diameter
B	0,866 in	Width
C_r	14.838,129 lbf	Basic dynamic load rating, radial
C_{0r}	9.779,676 lbf	Basic static load rating, radial
C_{ur}	1.000,45 lbf	Fatigue load limit, radial
$n_{G\ Grease}$	11.000 1/min	Limiting speed for grease lubrication
$n_{G\ Oil}$	16.000 1/min	Limiting speed for oil lubrication
	1,94 lbs	${Weight}



Mounting dimensions

d_a	3,661 in	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	4,803 in	Shoulder diameter outer ring
D_a	H12	Shoulder diameter outer ring clearance
$r_{a\ max}$	0,039 in	Maximum recess radius
$r_{a1\ max}$	0,024 in	Maximum recess radius
$E_{tk\ min}$	3,898 in	Minimum diameter injection pitch
$E_{tk\ max}$	4,087 in	Maximum diameter injection pitch
$E_{tk1\ min}$	3,898 in	Minimum diameter injection pitch
$E_{tk1\ max}$	4,087 in	Maximum diameter injection pitch
a	1 in	Distance between the apexes of the pressure cones



Dimensions

r_{min}	0,043 in	Minimum chamfer dimension
$r_{1\ min}$	0,043 in	Minimum chamfer dimension
α	15 °	Contact angle

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Temperature range

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

Additional information

$F_{V\,L}$	82,509 lbf	Preload force light
$F_{V\,M}$	265,962 lbf	Preload force medium
$F_{V\,H}$	532,374 lbf	Preload force heavy
$K_{aE\,L}$	254,496 lbf	Lift-off force light
$K_{aE\,M}$	886,241 lbf	Lift-off force medium
$K_{aE\,H}$	1.896,133 lbf	Lift-off force heavy
$c_{a\,L}$	89,7 N/µm	Axial rigidity light
$c_{a\,M}$	152 N/µm	Axial rigidity medium
$c_{a\,H}$	217 N/µm	Axial rigidity heavy