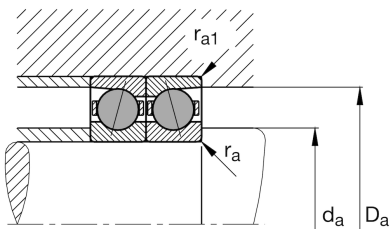
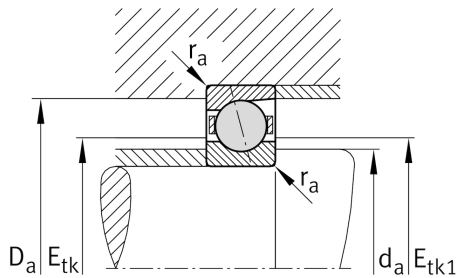
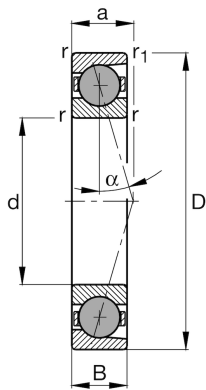
**FAG****HC7016-E-T-P4S-UL**

Angular contact ball bearing

Schaeffler ID:
0384670970000High speed spindle bearings HC70...-E,
adjusted, in pairs or sets, contact angle
 $\alpha = 25^\circ$, with ceramic balls, restricted
tolerances

Technical information



Main Dimensions & Performance Data

d	80 mm	Bore diameter
D	125 mm	Outside diameter
B	22 mm	Width
C _r	28.500 N	Basic dynamic load rating, radial
C _{0r}	19.700 N	Basic static load rating, radial
C _{ur}	1.570 N	Fatigue load limit, radial
n _{G Grease}	18.000 1/min	Limiting speed for grease lubrication
n _{G Oil}	28.000 1/min	Limiting speed for oil lubrication
≈m	0,839 kg	Weight

Mounting dimensions

d _a	88 mm	Diameter shaft shoulder
d _a	h12	Diameter shaft shoulder clearance
D _a	117 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}	97,3 mm	Minimum diameter injection pitch
E _{tk max}	99,7 mm	Maximum diameter injection pitch
E _{tk1 min}	94 mm	Minimum diameter injection pitch
E _{tk1 max}	99,7 mm	Maximum diameter injection pitch
a	34,9 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 _{VL}	117 N	Preload force light
F _{VM}	352 N	Preload force medium
F _{VH}	704 N	Preload force heavy
K _{aEL}	336 N	Lift-off force light
K _{aEM}	1.023 N	Lift-off force medium
K _{aEH}	2.075 N	Lift-off force heavy
C _{aL}	146 N/μm	Axial rigidity light
C _{aM}	215 N/μm	Axial rigidity medium
C _{aH}	278 N/μm	Axial rigidity heavy