

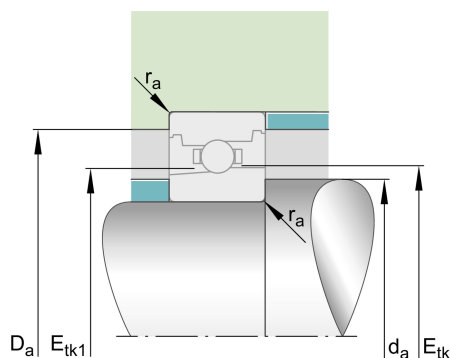
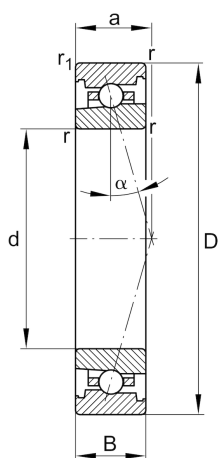
FAG

**HS7016-C-T-P4S-UL**

Angular contact ball bearing

Schaeffler ID:  
0191843010000Spindle bearings HS70...-C, adjusted,  
in pairs or sets, contact angle  $\alpha = 15^\circ$ ,  
restricted tolerances

## Technical information

**Temperature range**

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	100 °C	Operating temperature max.
	0,886 kg	Weight

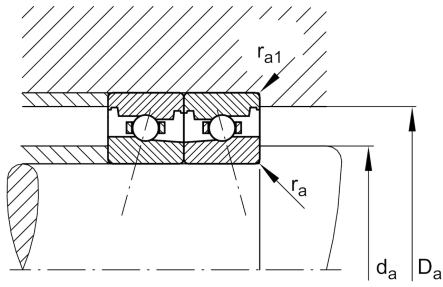
**Main Dimensions & Performance Data**

d	80 mm	Bore diameter
D	125 mm	Outside diameter
B	22 mm	Width
$C_r$	30.500 N	Basic dynamic load rating, radial
$C_{0r}$	21.800 N	Basic static load rating, radial
$C_{ur}$	2.280 N	Fatigue load limit, radial
$n_{G \text{ Grease}}$	15.000 1/min	Limiting speed for grease lubrication
$n_{G \text{ Oil}}$	24.000 1/min	Limiting speed for oil lubrication

**Dimensions**

$r_{\min}$	1,1 mm	Minimum chamfer dimension
$r_{1 \min}$	1,1 mm	Minimum chamfer dimension
$\alpha$	15 °	Contact angle

### 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
$a$	24,7 mm	Distance between the apexes of the pressure cones

### Additional information

$F_{VL}$	106 N	Preload force light
$F_{VM}$	317 N	Preload force medium
$F_{VH}$	633 N	Preload force heavy
$K_{aEL}$	315 N	Lift-off force light
$K_{aEM}$	991 N	Lift-off force medium
$K_{aEH}$	2.063 N	Lift-off force heavy
$c_{aL}$	58,7 N/ $\mu\text{m}$	Axial rigidity light
$c_{aM}$	92 N/ $\mu\text{m}$	Axial rigidity medium
$c_{aH}$	126 N/ $\mu\text{m}$	Axial rigidity heavy