

FAG

## ★ HS7009-C-T-P4S-UL

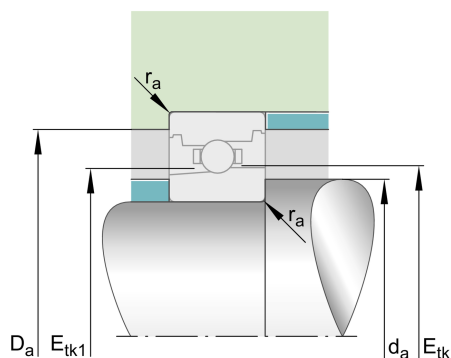
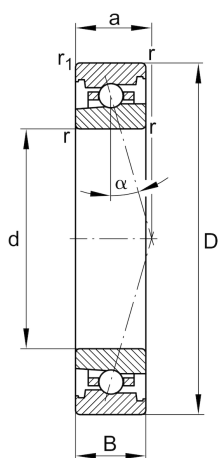
Angular contact ball bearing

Schaeffler ID:  
0191841310000

★ Preferred product

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

## Technical information



## Temperature range

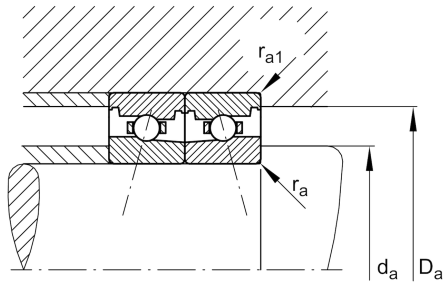
$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	100 °C	Operating temperature max.
	0,249 kg	Weight

## Main Dimensions &amp; Performance Data

d	45 mm	Bore diameter
D	75 mm	Outside diameter
B	16 mm	Width
$C_r$	12.300 N	Basic dynamic load rating, radial
$C_{0r}$	7.500 N	Basic static load rating, radial
$C_{ur}$	790 N	Fatigue load limit, radial
$n_{G \text{ Grease}}$	26.000 1/min	Limiting speed for grease lubrication
$n_{G \text{ Oil}}$	40.000 1/min	Limiting speed for oil lubrication

## Dimensions

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



### Mounting dimensions

$d_a$	51 mm	Diameter shaft shoulder
$d_a$	h12	Diameter shaft shoulder clearance
$D_a$	69 mm	Shoulder diameter outer ring
$D_a$	H12	Shoulder diameter outer ring clearance
$r_{a \max}$	1 mm	Maximum recess radius
$r_{a1 \max}$	0,3 mm	Maximum recess radius
$E_{tk \min}$	56,7 mm	Minimum diameter injection pitch
$E_{tk \max}$	58,2 mm	Maximum diameter injection pitch
$E_{tk1 \min}$	54,6 mm	Minimum diameter injection pitch
$E_{tk1 \max}$	58,2 mm	Maximum diameter injection pitch
$a$	16 mm	Distance between the apexes of the pressure cones

### Additional information

$F_{VL}$	43 N	Preload force light
$F_{VM}$	130 N	Preload force medium
$F_{VH}$	259 N	Preload force heavy
$K_{aEL}$	130 N	Lift-off force light
$K_{aEM}$	409 N	Lift-off force medium
$K_{aEH}$	853 N	Lift-off force heavy
$c_{aL}$	34,3 N/ $\mu\text{m}$	Axial rigidity light
$c_{aM}$	54,1 N/ $\mu\text{m}$	Axial rigidity medium
$c_{aH}$	74,3 N/ $\mu\text{m}$	Axial rigidity heavy