

FAG

## ★ HS7010-E-T-P4S-UL

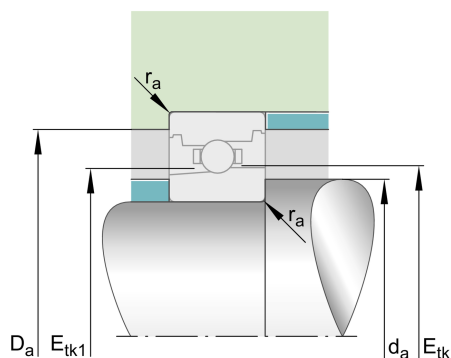
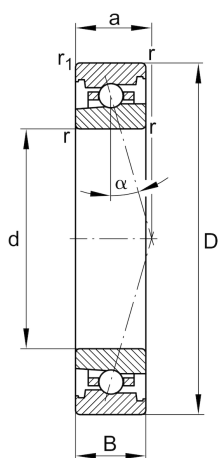
Angular contact ball bearing

Schaeffler ID:  
0191841580000

★ Preferred product

Spindle bearings HS70...-E, adjusted,  
in pairs or sets, contact angle  $\alpha = 25^\circ$ ,  
restricted tolerances

## Technical information



## Temperature range

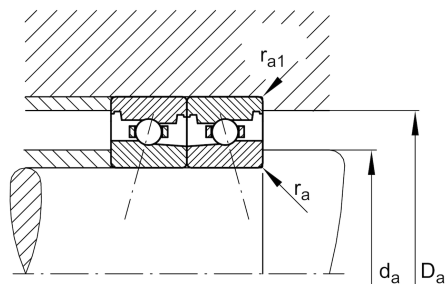
$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	100 °C	Operating temperature max.
	0,271 kg	Weight

## Main Dimensions &amp; Performance Data

d	50 mm	Bore diameter
D	80 mm	Outside diameter
B	16 mm	Width
$C_r$	12.100 N	Basic dynamic load rating, radial
$C_{0r}$	7.700 N	Basic static load rating, radial
$C_{ur}$	820 N	Fatigue load limit, radial
$n_{G \text{ Grease}}$	22.000 1/min	Limiting speed for grease lubrication
$n_{G \text{ Oil}}$	34.000 1/min	Limiting speed for oil lubrication

## Dimensions

$r_{\min}$	1 mm	Minimum chamfer dimension
$r_{1 \min}$	1 mm	Minimum chamfer dimension
$\alpha$	25 °	Contact angle



### Mounting dimensions

$d_a$	56 mm	Diameter shaft shoulder
$d_a$	h12	Diameter shaft shoulder clearance
$D_a$	74 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
$E_{tk \min}$	61,7 mm	Minimum diameter injection pitch
$E_{tk \max}$	63 mm	Maximum diameter injection pitch
$E_{tk1 \min}$	59,6 mm	Minimum diameter injection pitch
$E_{tk1 \max}$	63 mm	Maximum diameter injection pitch
$a$	23,2 mm	Distance between the apexes of the pressure cones

### Additional information

$F_{VL}$	72 N	Preload force light
$F_{VM}$	216 N	Preload force medium
$F_{VH}$	431 N	Preload force heavy
$K_{aEL}$	208 N	Lift-off force light
$K_{aEM}$	635 N	Lift-off force medium
$K_{aEH}$	1.297 N	Lift-off force heavy
$c_{aL}$	90,6 N/ $\mu\text{m}$	Axial rigidity light
$c_{aM}$	135 N/ $\mu\text{m}$	Axial rigidity medium
$c_{aH}$	176 N/ $\mu\text{m}$	Axial rigidity heavy