

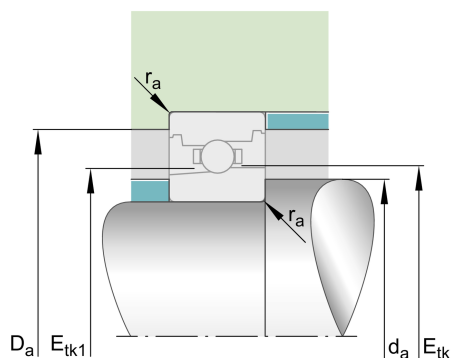
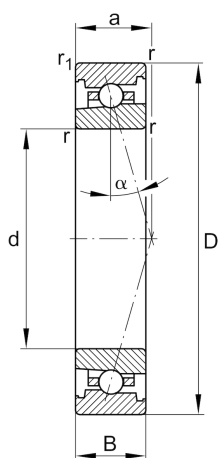
FAG

HS7012-E-T-P4S-UL

Angular contact ball bearing

Schaeffler ID:
0191841900000Spindle 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.
	0,417 kg	Weight

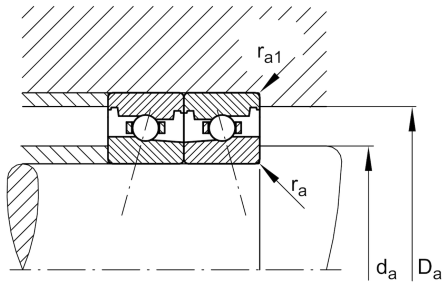
Main Dimensions & Performance Data

d	60 mm	Bore diameter
D	95 mm	Outside diameter
B	18 mm	Width
C_r	17.600 N	Basic dynamic load rating, radial
C_{0r}	11.800 N	Basic static load rating, radial
C_{ur}	1.250 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

Dimensions

r_{min}	1,1 mm	Minimum chamfer dimension
$r_{1 min}$	1,1 mm	Minimum chamfer dimension
α	25 °	Contact angle

Mounting dimensions



d_a	67 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	88 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
$E_{tk \min}$	73,5 mm	Minimum diameter injection pitch
$E_{tk \max}$	75,3 mm	Maximum diameter injection pitch
$E_{tk1 \min}$	70,9 mm	Minimum diameter injection pitch
$E_{tk1 \max}$	75,3 mm	Maximum diameter injection pitch
a	27,1 mm	Distance between the apexes of the pressure cones

Additional information

F_{VL}	105 N	Preload force light
F_{VM}	316 N	Preload force medium
F_{VH}	631 N	Preload force heavy
K_{aEL}	304 N	Lift-off force light
K_{aEM}	929 N	Lift-off force medium
K_{aEH}	1.896 N	Lift-off force heavy
c_{aL}	112 N/ μ m	Axial rigidity light
c_{aM}	167 N/ μ m	Axial rigidity medium
c_{aH}	218 N/ μ m	Axial rigidity heavy