

FAG

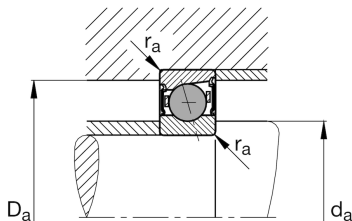
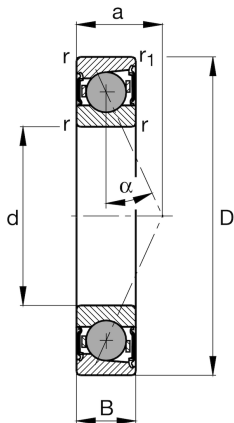
HCS7018-E-T-P4S-UL

Angular contact ball bearing

Schaeffler ID:
0384392710000

Spindle bearings HCS70...-E, adjusted, in pairs or sets, contact angle $\alpha = 25^\circ$, with ceramic balls, lip seals on both sides, non-contact, restricted tolerances

Technical information



Main Dimensions & Performance Data

d	90 mm	Bore diameter
D	140 mm	Outside diameter
B	24 mm	Width
C _r	34,000 N	Basic dynamic load rating, radial
C _{0r}	24,000 N	Basic static load rating, radial
C _{ur}	1,810 N	Fatigue load limit, radial
n _{G Grease}	16,000 1/min	Limiting speed for grease lubrication
	1.18 kg	Weight

Mounting dimensions

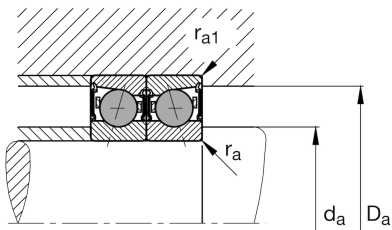
d _a	100 mm	Diameter shaft shoulder
d _a	h12	Diameter shaft shoulder clearance
D _a	131 mm	Shoulder diameter outer ring
D _a	H12	Shoulder diameter outer ring clearance
r _{a max}	1.5 mm	Maximum recess radius
r _{a1 max}	0.6 mm	Maximum recess radius
a	38.8 mm	Distance between the apexes of the pressure cones

Dimensions

r _{min}	1.5 mm	Minimum chamfer dimension
r _{1 min}	1.5 mm	Minimum chamfer dimension
α	25 °	Contact angle

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	80 °C	Operating temperature max.



Additional information

F_{VL}	141 N	Preload force light
F_{VM}	423 N	Preload force medium
F_{VH}	845 N	Preload force heavy
K_{aEL}	404 N	Lift-off force light
K_{aEM}	1,228 N	Lift-off force medium
K_{aEH}	2,490 N	Lift-off force heavy
c_{aL}	163 N/ μ m	Axial rigidity light
c_{aM}	241 N/ μ m	Axial rigidity medium
c_{aH}	310 N/ μ m	Axial rigidity heavy