

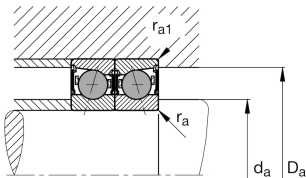
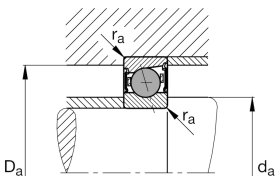
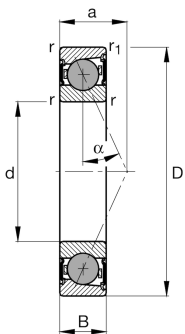
FAG

HCS71909-E-T-P4S-UL [🔗](#)

High speed spindle bearing

High speed spindle bearing HCS719...-E, adjusted, in pairs or sets, contact angle $\alpha = 25^\circ$, with ceramic balls, lip seals on both sides, non-contact, restricted tolerances

Informacje techniczne



Twoja aktualna wersja produktu

Preload	L	Preload light
Contact angle	E	Contact angle 25°
Sealing	2RSD	Non-contact sealed on both sides and greased "for life"
Cage	T	Laminated fabric cage
Tolerance class	P4S	Tolerance class P4S, FAG standard better than P4 to ISO 492:2023
Arrangement bearing set	U	Single bearing

Main Dimensions & Performance Data

d	45 mm	Bore diameter
D	68 mm	Outside diameter
B	12 mm	Width
C _r	9.100 N	Basic dynamic load rating, radial
C _{0r}	5.400 N	Basic static load rating, radial
C _{ur}	435 N	Fatigue load limit, radial
n _G Grease	32.000 1/min	Limiting speed for grease lubrication
≈m	0,135 kg	Masa



Mounting dimensions

d _a	50 mm	Diameter shaft shoulder
d _a	h12	Diameter shaft shoulder clearance
D _a	63,5 mm	Shoulder diameter outer ring
D _a	H12	Shoulder diameter outer ring clearance
r _a max	0,6 mm	Maximum recess radius
r _{a1} max	0,15 mm	Maximum recess radius
a	19,2 mm	Distance between the apexes of the pressure cones

Dimensions

r _{min}	0,6 mm	Minimum chamfer dimension
r ₁ min	0,6 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 _{V L}	38 N	Preload force light
F _{V M}	113 N	Preload force medium
F _{V H}	226 N	Preload force heavy
K _{aE L}	108 N	Lift-off force light
K _{aE M}	329 N	Lift-off force medium
K _{aE H}	667 N	Lift-off force heavy
c _{a L}	77 N/μm	Axial rigidity light
c _{a M}	113 N/μm	Axial rigidity medium
c _{a H}	146 N/μm	Axial rigidity heavy



Właściwości

-  Obciążenie promieniowe
-  Obciążenie osiowe jednokierunkowe
-  Smarowanie dożywotnie, bezobsługowe
-  Smarowanie smarem
-  Uszczelnienie dwustronne