

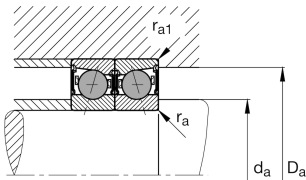
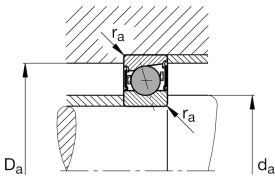
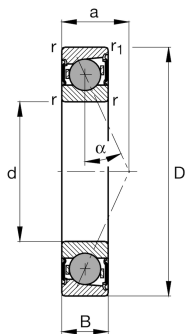
FAG

HCS7005-E-T-P4S-UL

High speed spindle bearing

High speed spindle bearing HCS70...-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	25 mm	Bore diameter
D	47 mm	Outside diameter
B	12 mm	Width
C _r	5.500 N	Basic dynamic load rating, radial
C _{0r}	2.700 N	Basic static load rating, radial
C _{ur}	218 N	Fatigue load limit, radial
n _G Grease	53.000 1/min	Limiting speed for grease lubrication
≈m	0,095 kg	Masa



Mounting dimensions

d_a	30 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	42 mm	Shoulder diameter outer ring
D_a	H12	Shoulder diameter outer ring clearance
$r_{a \max}$	0,6 mm	Maximum recess radius
$r_{a1 \max}$	0,3 mm	Maximum recess radius
a	14,4 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_{VL}	23 N	Preload force light
F_{VM}	70 N	Preload force medium
F_{VH}	140 N	Preload force heavy
K_{aEL}	67 N	Lift-off force light
K_{aEM}	204 N	Lift-off force medium
K_{aEH}	415 N	Lift-off force heavy
c_{aL}	50 N/μm	Axial rigidity light
c_{aM}	75 N/μm	Axial rigidity medium
c_{aH}	97 N/μm	Axial rigidity heavy



Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie dożywotnie, bezobsługowe



Smarowanie smarem



Uszczelnienie dwustronne