

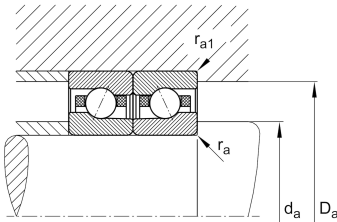
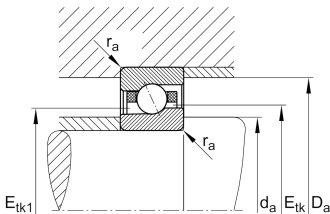
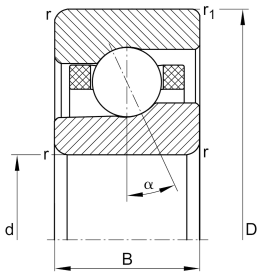
FAG

HCM7014-C-T-P4S-UL-XL

High speed spindle bearing

High speed spindle bearing HCM70..-C, adjusted, in pairs or sets, contact angle $\alpha = 17^\circ$, with ceramic balls, restricted tolerances

Informacje techniczne



Twoja aktualna wersja produktu

Preload	L	Preload light
Contact angle	Contact angle 17°	Contact angle 17°
Sealing	Without	Not sealed
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	70 mm	Bore diameter
D	110 mm	Outside diameter
B	20 mm	Width
C _r	27.500 N	Basic dynamic load rating, radial
C _{0r}	15.800 N	Basic static load rating, radial
C _{ur}	1.270 N	Fatigue load limit, radial
n _{G Grease}	22.000 1/min	Limiting speed for grease lubrication
n _{G Oil}	34.000 1/min	Limiting speed for oil lubrication
≈m	0,559 kg	Masa



Mounting dimensions

d_a	77 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	102 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
$E_{tk \min}$	84,3 mm	Minimum diameter injection pitch
$E_{tk \max}$	87,2 mm	Maximum diameter injection pitch
$E_{tk1 \min}$	80,7 mm	Minimum diameter injection pitch
$E_{tk1 \max}$	87,2 mm	Maximum diameter injection pitch
a	23,8 mm	Distance between the apexes of the pressure cones

Dimensions

$r_{\min}$	1,1 mm	Minimum chamfer dimension
$r_{1 \min}$	0,6 mm	Minimum chamfer dimension
α	17 °	Contact angle

Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	100 °C	Operating temperature max.



Additional information

F_{VL}	122 N	Preload force light
F_{VM}	322 N	Preload force medium
F_{VH}	675 N	Preload force heavy
K_{aEL}	355 N	Lift-off force light
K_{aEM}	958 N	Lift-off force medium
K_{aEH}	2.069 N	Lift-off force heavy
c_{aL}	68 N/μm	Axial rigidity light
c_{aM}	97 N/μm	Axial rigidity medium
c_{aH}	131 N/μm	Axial rigidity heavy

Właściwości

-  Obciążenie promieniowe
-  Obciążenie osiowe jednokierunkowe
-  Smarowanie smarem
-  Smarowanie olejem
-  Bez uszczelnienia