

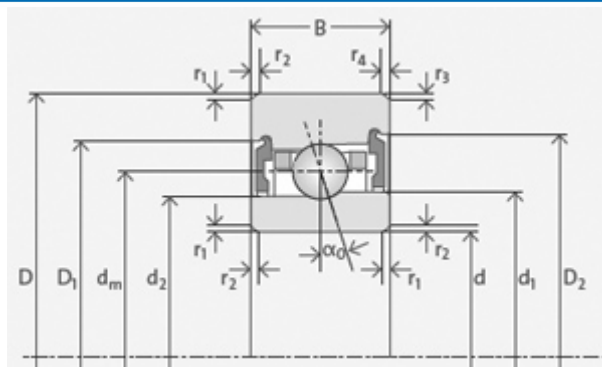


Spindle Ball Bearing KH 6008 E TA P4

GMN Globus
Date: 26.08.2024

BALL BEARING DATA

Designation	[-]:	KH 6008 E TA P4
Bearing design	[-]:	KH
bearing type / size	[-]:	6008
Ball material	[-]:	Steel
Cage	[-]:	TA
Seal	[-]:	2RZ optional (with lubrication)
Precision	[-]:	P4 (HG;UP;P2 on request)



GEOMETRICAL DATA

d	[mm]:	40	Bore diameter
D	[mm]:	68	Outer diameter
B	[mm]:	15	Width of single bearing
Dw	[mm]:	6,35	Ball diameter
Z	[pcs]:	22	Number of balls
r 1,2	[mm]:	1	Chamfer (min)
r 3,4	[mm]:	0,6	Chamfer; open side (min)
d1	[mm]:	49,2	Outer diameter of inner ring
d2	[mm]:	47,5	Outer diameter of inner ring (open side)
dk	[mm]:	51,35	Cage inner diameter
dm	[mm]:	54	Pitch circle diameter
D1	[mm]:	60,2	Inner diameter of outer ring
ra max	[mm]:	1	Undercut of associated component
rb max	[mm]:	0,3	Undercut of associated component (open side)
da, db min	[mm]:	46	Abutment diameter inner ring
Da, Db max	[mm]:	62	Abutment diameter outer ring
D2	[mm]:	62,6	Inner diameter of outer ring (open side)
m	[kg]:	0,185	Bearing weight
Alpha 0	[°]:	25	Contact angle

LOAD DATA

C	[N]:	10500	Dynamic load rating
Co	[N]:	6550	Static load rating
ng	[1/min]:	27000	Limit speed (Ball material: Steel Lubricant: Grease Rotating outer ring)
Fv	[N]:	90	Light preload
Famax	[N]:	256,5	Lift off force light
Cax	[N/μm]:	92	Axial rigidity low (bearing pair)
Fv	[N]:	260	Medium preload
Famax	[N]:	741	Lift off force medium
Cax	[N/μm]:	135	Axial rigidity medium (bearing pair)
Fv	[N]:	520	Heavy preload
Famax	[N]:	1482	Lift off force heavy
Cax	[N/μm]:	175	Axial rigidity heavy (bearing pair)
Ff	[N]:	500	Minimum spring preload at max. speed