

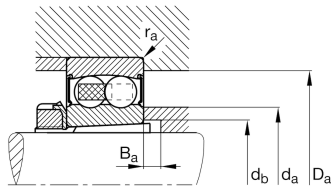
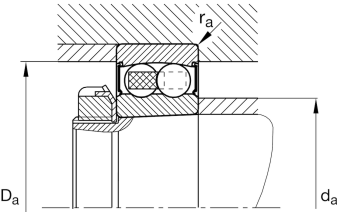
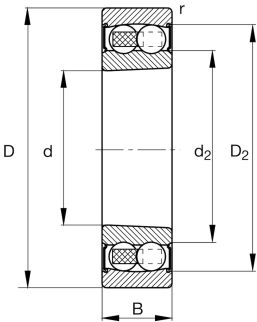
FAG

2207-K-2RS-TVH-C3

Self-aligning ball bearing

Self-aligning ball bearing 22..-K-2RS-TVH,
tapered bore taper 1:12, seals, plastic cage

Technical information



Your current product variant

Bore type	K	Tapered, taper 1:12
Sealing	2RS	Contact seal on both sides
Cage	TVH	Solid cage made of glass-fiber reinforced polyamide PA66
Tolerance class	PN	Normal (ISO 492:2023)
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Lubricant	GA13	Ball bearing and insert bearing grease

Main Dimensions & Performance Data

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	23 mm	Width
C _r	16.000 N	Basic dynamic load rating, radial
C _{0r}	5.100 N	Basic static load rating, radial
C _{ur}	325 N	Fatigue load limit, radial
n _G	6.000 1/min	Limiting speed
≈m	0,398 kg	Weight



Mounting dimensions

$d_{a \min}$	42 mm	Minimum diameter shaft shoulder
$d_{a \max}$	45 mm	Maximum diameter shaft shoulder
$D_{a \max}$	65 mm	Maximum diameter of housing shoulder
$d_{b \min}$	39 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	5 mm	Minimum cavity width of the sleeve
$r_{a \max}$	1 mm	Maximum fillet radius

Dimensions

$r_{\min}$	1,1 mm	Minimum chamfer dimension
D_1	59,08 mm	Shoulder diameter outer ring
D_2	63,35 mm	Caliber diameter outer ring
d_1	47,7 mm	Shoulder diameter inner ring
d_2	43,5 mm	Caliber diameter inner ring

Temperature range

$T_{\min}$	-20 °C	Operating temperature min.
$T_{\max}$	100 °C	Operating temperature max.

Calculation factors

e	0,22	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2,81	Dynamic axial load factor
Y_2	4,35	Dynamic axial load factor
Y_0	2,94	Static axial load factor

Additional information

H307

Adapter sleeve



Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Lifetime lubrication, freedom from maintenance



Grease Lubrication



Sealed on both sides



Static angular error and misalignment



Dynamic angular error and misalignment