

**FAG****HC6309-C-2BRS-L038-C3>V**

Deep groove ball bearing

Deep groove ball bearing HC63...-C-2BRS,
Hybrid bearing, single row, Generation C,
shields, steel sheet metal cage

Technical information



Your current product variant

Version code	>V	Not marked on bearing
Material Bearing	HC	Hybrid bearing, rolling elements ceramic, bearing rings made of steel
Changed internal design	C	GenerationC
Type of Seal	2BRS	Non-contact seal on both sides
Cage	JN	Steel sheet metal
Tolerance class	P6	Class 6 (ISO 492:2023)
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°
Lubricant	L038	Grease (L038/customer specific)
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Bore type	Z	Cylindrical



Main Dimensions & Performance Data

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
C _r	62.000 N	Basic dynamic load rating, radial
C _{0r}	30.500 N	Basic static load rating, radial
C _{ur}	1.590 N	Fatigue load limit, radial
n _G	10.700 1/min	Limiting speed
n _{gr}	9.100 1/min	Reference speed
m	0,747 kg	Weight

Mounting dimensions

d _{a min}	54 mm	Minimum diameter shaft shoulder
D _{a max}	91 mm	Maximum diameter of housing shoulder
r _{a max}	1,5 mm	Maximum fillet radius

Dimensions

r _{min}	1,5 mm	Minimum chamfer dimension
D ₁	83,6 mm	Shoulder diameter outer ring
D ₂	86,37 mm	Caliber diameter outer ring
d ₁	62,25 mm	Shoulder diameter inner ring
d ₂	60,33 mm	Caliber diameter inner ring

Temperature range








T _{min}	-20 °C	Operating temperature min.
T _{max}	100 °C	Operating temperature max.

Calculation factors

f ₀	12,5	Calculation factor
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Characteristics

-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Lifetime lubrication, freedom from maintenance
-  Grease Lubrication
-  Sealed on both sides
-  Current insulated