

**FAG****HC6203-C-2Z-L038-C3>V**

Deep groove ball bearing

Deep groove ball bearing HC62...-C-2Z,  
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
Sealing	2Z	Non-contact shield on both sides
Cage	JN	Steel sheet metal
Tolerance class	P6	Class 6 (ISO 492:2023)
Dimensional / heat stabilization	SN	Rings dimensional stabilized up to 120°
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	17 mm	Bore diameter
D	40 mm	Outside diameter
B	12 mm	Width
C <sub>r</sub>	11.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	4.550 N	Basic static load rating, radial
C <sub>ur</sub>	240 N	Fatigue load limit, radial
n <sub>G</sub>	29.500 1/min	Limiting speed
n <sub>gr</sub>	20.200 1/min	Reference speed
m	0,059 kg	Weight

### Mounting dimensions

d <sub>a min</sub>	21,2 mm	Minimum diameter shaft shoulder
D <sub>a max</sub>	35,8 mm	Maximum diameter of housing shoulder
r <sub>a max</sub>	0,6 mm	Maximum fillet radius

### Dimensions

r <sub>min</sub>	0,6 mm	Minimum chamfer dimension
D <sub>1</sub>	32,9 mm	Shoulder diameter outer ring
D <sub>2</sub>	34,84 mm	Caliber diameter outer ring
d <sub>1</sub>	24,13 mm	Shoulder diameter inner ring
d <sub>2</sub>	22,97 mm	Caliber diameter inner ring

### Temperature range

T <sub>min</sub>	-20 °C	Operating temperature min.
T <sub>max</sub>	120 °C	Operating temperature max.

### Calculation factors

f <sub>0</sub>	12,5	Calculation factor
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### Characteristics

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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