

**FAG****6003-2RSR-L038**

Deep groove ball bearing

Deep groove ball bearing 60...-2RSR, single row, seals, steel sheet metal cage

Technical information

**Your current product variant**

Sealing	2RSR	Contact seal on both sides
Cage	JN	Steel sheet metal
Tolerance class	PN	Normal (ISO 492:2023)
Dimensional / heat stabilization	SN	Rings dimensional stabilized up to 120°
Lubricant	L038	Grease (L038/customer specific)
Radial internal clearance	CN (Group N)	Normal internal clearance
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	17 mm	Bore diameter
D	35 mm	Outside diameter
B	10 mm	Width
C _r	6.400 N	Basic dynamic load rating, radial
C _{0r}	3.250 N	Basic static load rating, radial
C _{ur}	162 N	Fatigue load limit, radial
n _G	11.800 1/min	Limiting speed
m	39,1 g	Weight

Mounting dimensions

d _{a min}	19 mm	Minimum diameter shaft shoulder
D _{a max}	33 mm	Maximum diameter of housing shoulder
r _{a max}	0,3 mm	Maximum fillet radius



Dimensions

r_{\min}	0,3 mm	Minimum chamfer dimension
D_1	29,51 mm	Shoulder diameter outer ring
D_2	30,81 mm	Caliber diameter outer ring
d_1	22,65 mm	Shoulder diameter inner ring

Temperature range

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

Calculation factors

f_0	14,3	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