

**FAG****6311-C-2Z-L100-C3**

Deep groove ball bearing

Deep groove ball bearing 63...-C-2Z, single row, Generation C, shields, steel sheet metal cage

## Technical information



## Your current product variant

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	S0	Rings dimensional stabilized up to 150°
Lubricant	L100	Grease (L100/customer specific)
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Bore type	Z	Cylindrical

## Main Dimensions &amp; Performance Data

d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	29 mm	Width
$C_r$	83.000 N	Basic dynamic load rating, radial
$C_{0r}$	47.500 N	Basic static load rating, radial
$C_{ur}$	3.300 N	Fatigue load limit, radial
$n_G$	7.200 1/min	Limiting speed
$n_{gr}$	7.800 1/min	Reference speed
$\approx m$	1,35 kg	Weight



### Mounting dimensions

$d_{a \min}$	66 mm	Minimum diameter shaft shoulder
$D_{a \max}$	109 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	2 mm	Minimum chamfer dimension
$D_1$	102,15 mm	Shoulder diameter outer ring
$D_2$	105,3 mm	Caliber diameter outer ring
$d_1$	74,7 mm	Shoulder diameter inner ring
$d_2$	72,54 mm	Caliber diameter inner ring

### Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	140 °C	Operating temperature max.

### Calculation factors

$f_0$	12,9	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