

**FAG****609-2Z-HLN-C3**

Deep groove ball bearing

Deep groove ball bearing 60...-2Z, single row, shields, steel sheet metal cage

## Technical information

**Your current product variant**

Logistical code	HLN	-
Sealing	2Z	Non-contact shield 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	Lubricating grease	
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Bore type	Z	Cylindrical

**Main Dimensions & Performance Data**

d	9 mm	Bore diameter
D	24 mm	Outside diameter
B	7 mm	Width
$C_r$	3.550 N	Basic dynamic load rating, radial
$C_{0r}$	1.410 N	Basic static load rating, radial
$C_{ur}$	88 N	Fatigue load limit, radial
$n_G$	38.500 1/min	Limiting speed
$n_{gr}$	30.000 1/min	Reference speed
$m$	0,014 kg	Weight



### Mounting dimensions

$d_{a \min}$	11 mm	Minimum diameter shaft shoulder
$D_{a \max}$	22 mm	Maximum diameter of housing shoulder
$r_{a \max}$	0,3 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	0,3 mm	Minimum chamfer dimension
$D_1$	19 mm	Shoulder diameter outer ring
$D_2$	20,1 mm	Caliber diameter outer ring
$d_1$	13,2 mm	Shoulder diameter inner ring
$d_2$	12,2 mm	Caliber diameter inner ring

### Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	120 °C	Operating temperature max.

### Calculation factors

$f_0$	12,8	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