SCHAEFFLER



FAG

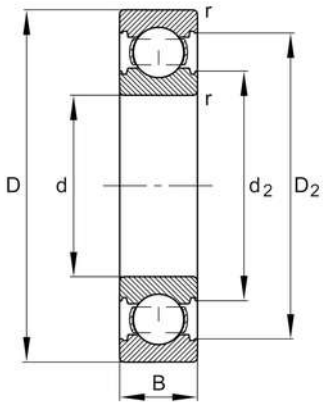
6311-C

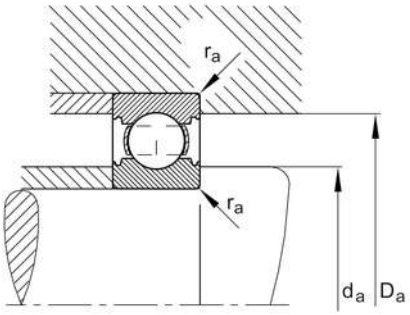
Deep groove ball bearing

Schaeffler ID:
0872497310000

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

Technical information





Main Dimensions & 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	8,500 1/min	Limiting speed
$n_{\vartheta r}$	7,800 1/min	Reference speed
	1.297 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_2	105.3 mm	Caliber diameter outer ring
d_2	72.5 mm	Caliber diameter inner ring

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	150 °C	Operating temperature max.

Calculation factors

f_0	12.9	Calculation factor

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all further information and guidelines for this product. For further information you can use the contact form on our website.