Technical data

21311.VK

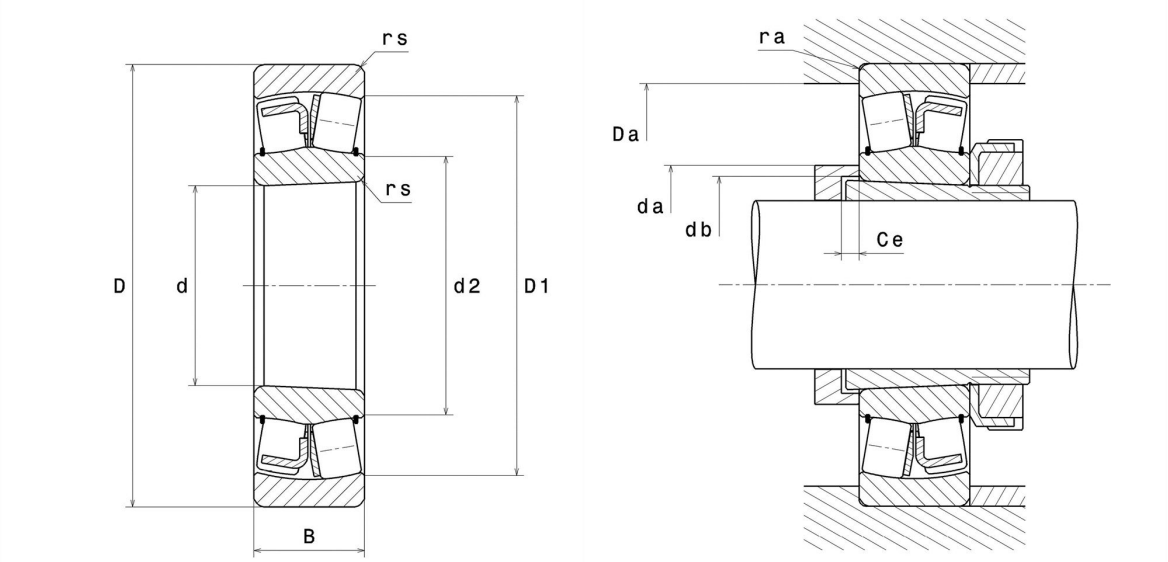
Double row spherical roller bearings



Spherical roller bearing, pressed steel cage, tapered bore 1:12

ULTAGE

Visual(s)



Product definition

d	55 mm
D	120 mm
B	29 mm
d2	73.6 mm
D1	102 mm
rs min	2 mm
Number of lubrication holes	0
b	2 mm
k	0 mm
Associated sleeve reference	H311
e	0.24
Y1	2.83
Y2	4.21
Y0	2.76
Radial clearance class	CN
Mass	1.52 kg
Brand	SNR

Product performance

Dynamic load, C	9.65 kN
Static load, C0	158 kN
Fatigue limit load, Cu	29.1 kN
Nref	5,000 Tr/min
Nlim	6,900 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.81 Hz
Characteristic outer ring frequency, BPF0	6.26 Hz
Characteristic inner ring frequency, BPFI	8.74 Hz

Abutment dimensions

da min	66 mm
da max	2 mm
db min	60 mm
Ce min	6 mm
Da max	109 mm
ra max	2 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$Fa/Fr \leq e$		$Fa/Fr > e$	
X	Y	X	Y
1	Y1	0.67	Y2

Equivalent static radial load

$P_0 = X_0.Fr + Y_0.Fa$

X_0	Y_0
1	Y0

The values for e, Y1, Y2 and Y0 are shown in the above table .