Technical data

22311EMKW33C4

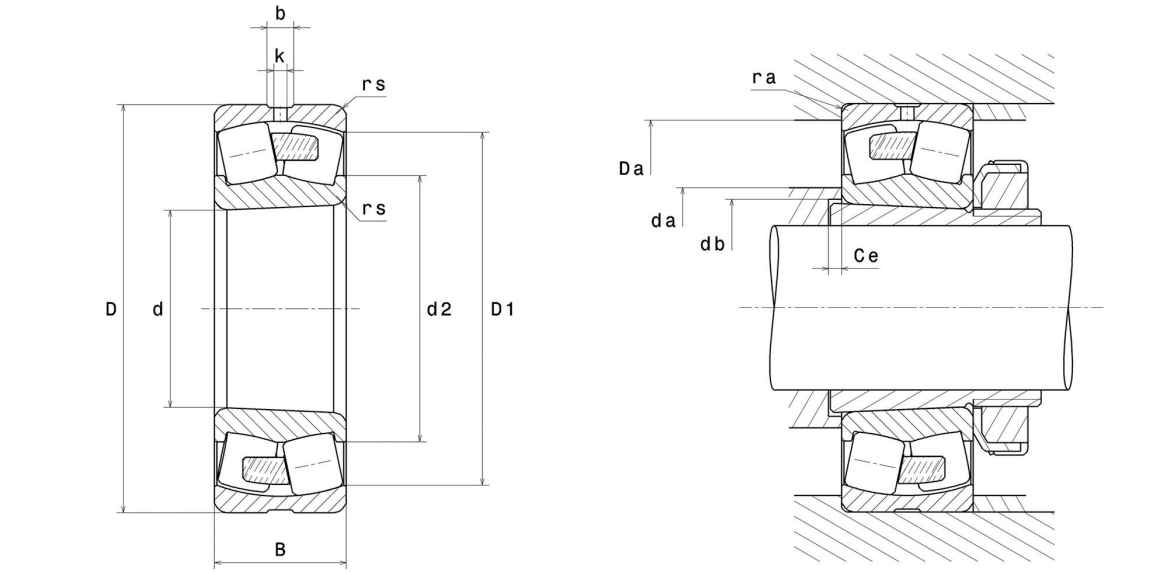
Double row spherical roller bearings



Spherical roller bearing, one-piece machined cage, groove and lubrication holes on outer ring, tapered bore 1:12

ULTAGE

Visual(s)



Product definition

d	55 mm
D	120 mm
B	43 mm
d2	68.7 mm
D1	102.9 mm
rs min	2 mm
Number of lubrication holes	3
b	7.8 mm
k	3.5 mm
Associated sleeve reference	H2311
e	0.36
Y1	1.87
Y2	2.79
Y0	1.83
Radial clearance class	C4
Mass	2.31 kg
Brand	SNR

Product performance

Dynamic load, C	296 kN
Static load, C0	274 kN
Fatigue limit load, Cu	25.4 kN
Nref	4,600 Tr/min
Nlim	5,600 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.4 Hz
Characteristic rolling element frequency, BSF	4.7 Hz
Characteristic outer ring frequency, BPF0	5.61 Hz
Characteristic inner ring frequency, BPFI	8.39 Hz

Abutment dimensions

da min	66 mm
da max	2 mm
db min	61 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 .