Technical data

22319EMKW33C4

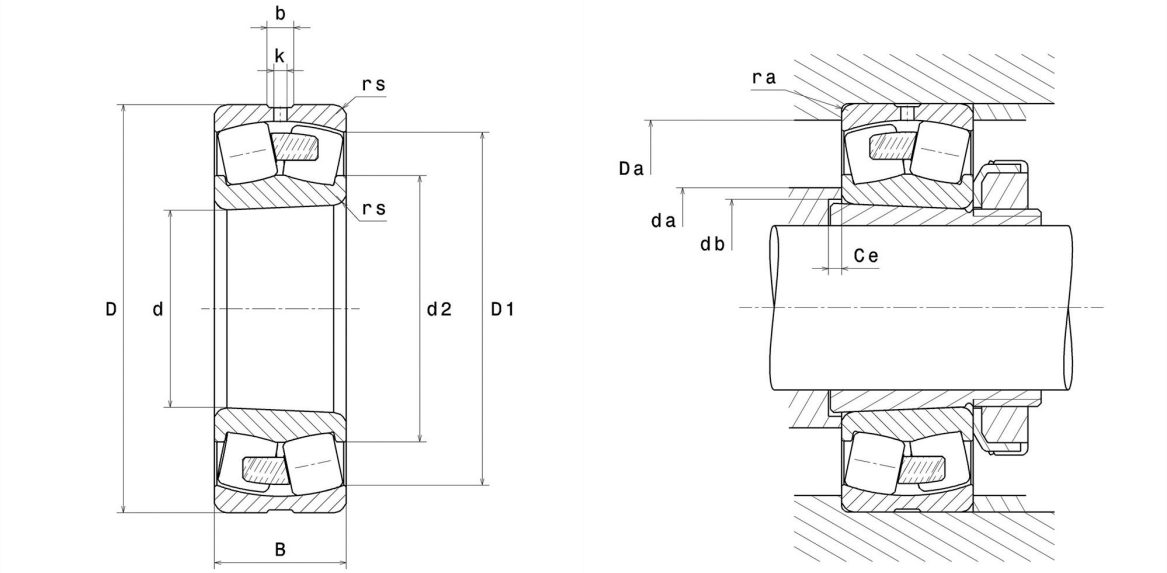
Double row spherical roller bearings



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

ULTAGE

Visual(s)



Product definition

d	95 mm
D	200 mm
B	67 mm
d2	120 mm
D1	174 mm
rs min	3 mm
Number of lubrication holes	3
b	12.1 mm
k	6 mm
Associated sleeve reference	H2319
e	0.32
Y1	2.09
Y2	3.11
Y0	2.04
Radial clearance class	C4
Mass	9.95 kg
Brand	SNR

Product performance

Dynamic load, C	732 kN
Static load, C0	750 kN
Fatigue limit load, Cu	62.8 kN
Nref	2,800 Tr/min
Nlim	3,300 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	5.1 Hz
Characteristic outer ring frequency, BPF0	6.11 Hz
Characteristic inner ring frequency, BPFI	8.89 Hz

Abutment dimensions

da min	109 mm
da max	2.5 mm
db min	105 mm
Ce min	7 mm
Da max	186 mm
ra max	2.5 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 .