Technical data

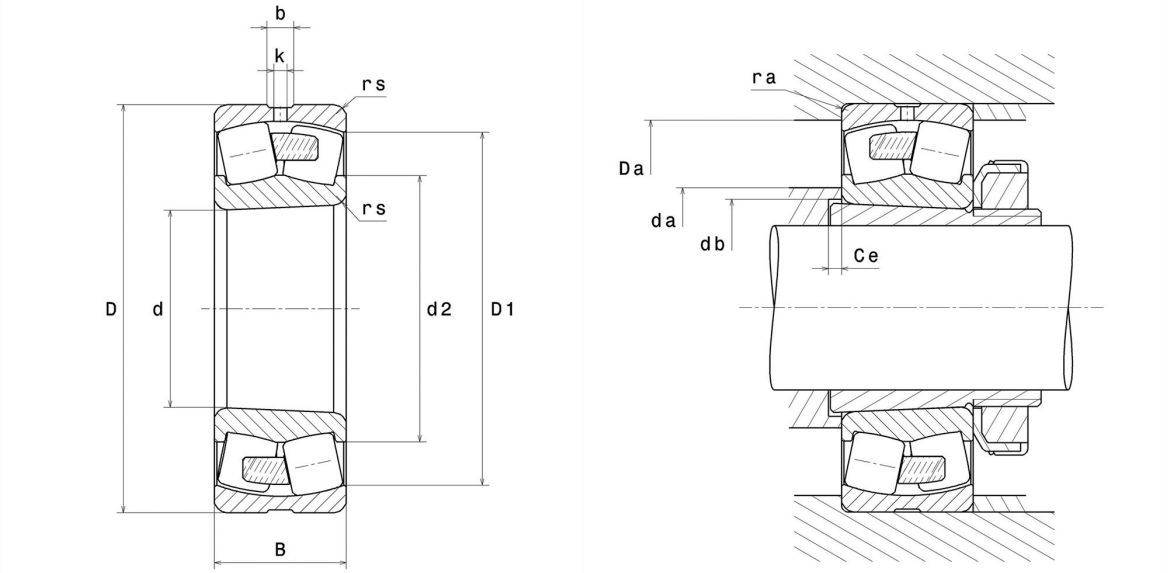
22210EMKW33C4

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	50 mm
D	90 mm
B	23 mm
D1	80.7 mm
rs min	1.1 mm
Number of lubrication holes	3
b	5.8 mm
k	2.5 mm
Associated sleeve reference	H310
e	0.24
Y1	2.84
Y2	4.23
Y0	2.78
Radial clearance class	C4
Mass	0.59 kg
Brand	SNR

Product performance

Dynamic load, C	125 kN
Static load, C0	117 kN
Fatigue limit load, Cu	13.7 kN
Nref	6,700 Tr/min
Nlim	9,100 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	6.34 Hz
Characteristic outer ring frequency, BPF0	7.21 Hz
Characteristic inner ring frequency, BPFI	9.79 Hz

Abutment dimensions

da min	57 mm
da max	1 mm
db min	55 mm
Ce min	9 mm
Da max	83 mm
ra max	1 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

$Po = Xo.Fr + Yo.Fa$

X_0	Y_0
1	Y0

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