Technical data

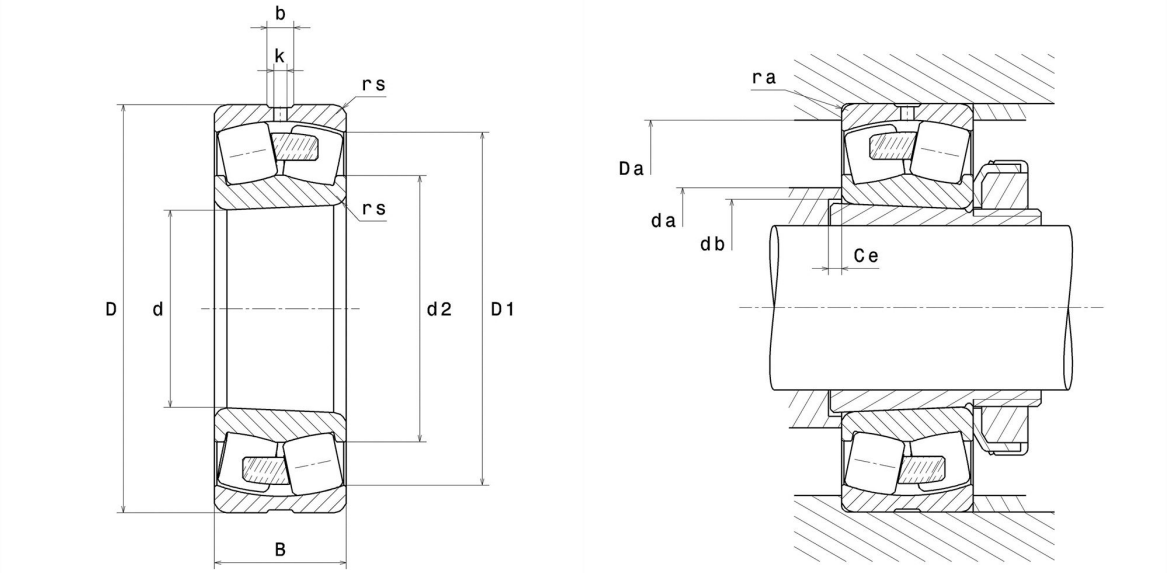
22315EMKW33C4

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	75 mm
D	160 mm
B	55 mm
d2	91.9 mm
D1	138.3 mm
rs min	2.1 mm
Number of lubrication holes	3
b	10.5 mm
k	5 mm
Associated sleeve reference	H2315
e	0.34
Y1	2
Y2	2.98
Y0	1.96
Radial clearance class	C4
Mass	5.1 kg
Brand	SNR

Product performance

Dynamic load, C	491 kN
Static load, C0	467 kN
Fatigue limit load, Cu	43.3 kN
Nref	3,600 Tr/min
Nlim	4,200 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	4.65 Hz
Characteristic outer ring frequency, BPF0	5.59 Hz
Characteristic inner ring frequency, BPFI	8.41 Hz

Abutment dimensions

da min	87 mm
da max	2 mm
db min	82 mm
Ce min	6 mm
Da max	148 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 .