Technical data

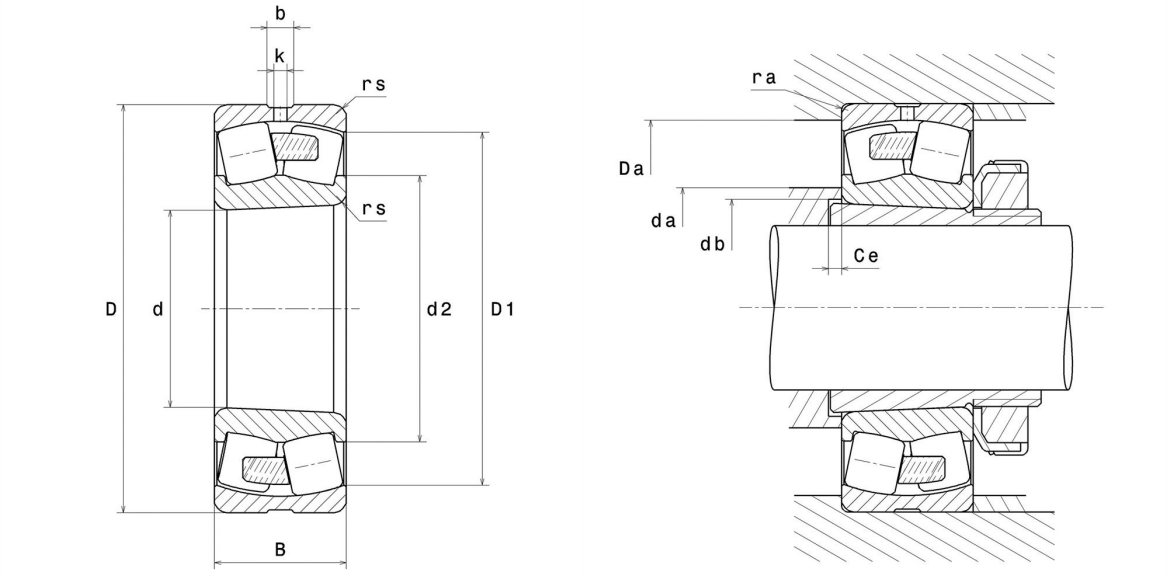
23122.EMKW33C3

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	110 mm
D	180 mm
B	56 mm
D1	160.9 mm
rs min	2 mm
Number of lubrication holes	3
b	8.9 mm
k	4 mm
Associated sleeve reference	H3122
e	0.28
Y1	2.43
Y2	3.61
Y0	2.37
Radial clearance class	C3
Mass	5.34 kg
Brand	SNR

Product performance

Dynamic load, C	547 kN
Static load, C0	669 kN
Fatigue limit load, Cu	51.9 kN
Nref	3,000 Tr/min
Nlim	3,500 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	7.5 Hz
Characteristic outer ring frequency, BPF0	9.15 Hz
Characteristic inner ring frequency, BPFI	11.85 Hz

Abutment dimensions

da min	121 mm
da max	2 mm
db min	117 mm
Ce min	7 mm
Da max	169 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

$Po = Xo.Fr + Yo.Fa$

X_0	Y_0
1	Y0

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