Technical data

23022EMKW33C4

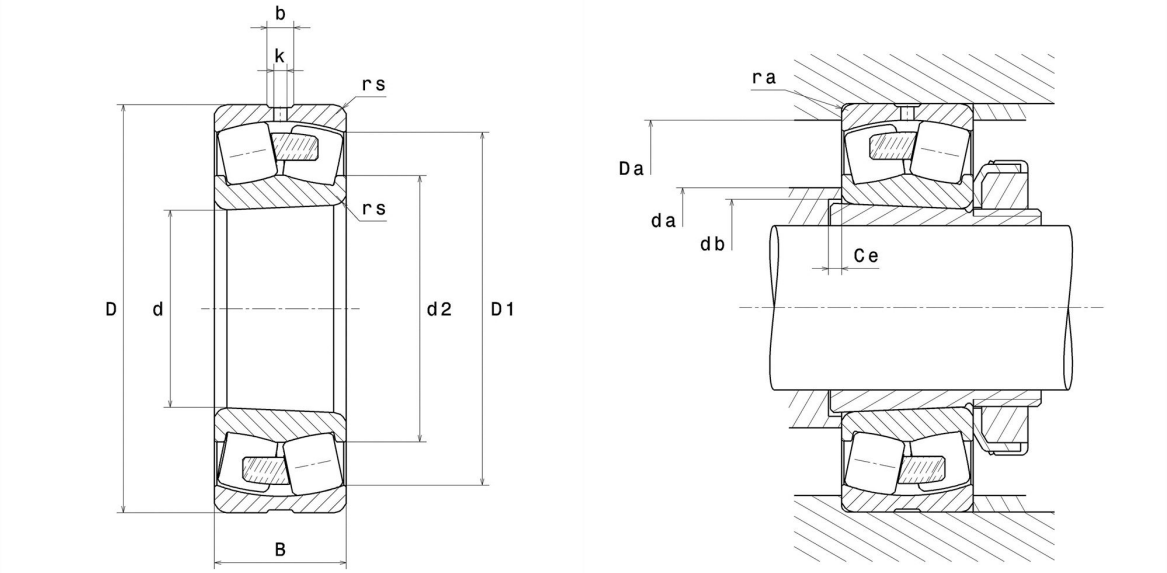
Double row spherical roller bearings



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	170 mm
B	45 mm
D1	154.6 mm
rs min	2 mm
Number of lubrication holes	3
b	7.8 mm
k	3.5 mm
Associated sleeve reference	H322
e	0.23
Y1	2.95
Y2	4.4
Y0	2.89
Radial clearance class	C4
Mass	3.52 kg
Brand	SNR

Product performance

Dynamic load, C	417 kN
Static load, C0	517 kN
Fatigue limit load, Cu	46.2 kN
Nref	3,500 Tr/min
Nlim	4,200 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	8.45 Hz
Characteristic outer ring frequency, BPF0	10.17 Hz
Characteristic inner ring frequency, BPFI	12.83 Hz

Abutment dimensions

da min	118.8 mm
da max	2 mm
db min	118 mm
Ce min	14 mm
Da max	161.2 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 .