Technical data

23234.EMKW33C4

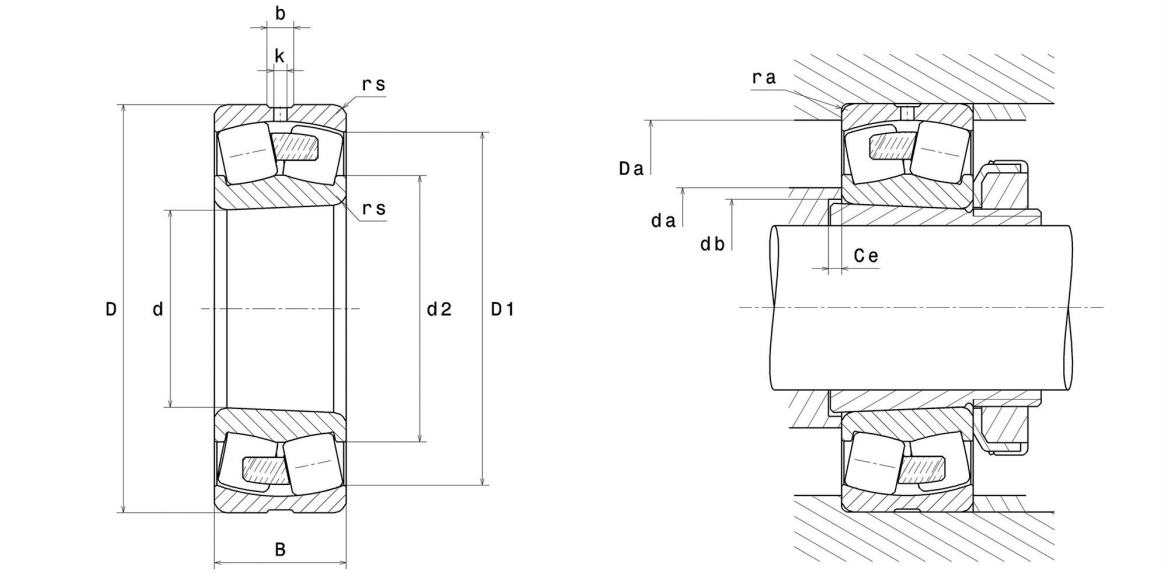
Double row spherical roller bearings



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

ULTAGE

Visual(s)



Product definition

d	170 mm
D	310 mm
B	110 mm
D1	271.2 mm
rs min	4 mm
Number of lubrication holes	3
b	16.35 mm
k	8 mm
Associated sleeve reference	H2334
e	0.33
Y1	2.03
Y2	3.02
Y0	1.98
Radial clearance class	C4
Mass	34.64 kg
Brand	SNR

Product performance

Dynamic load, C	1,700 kN
Static load, C0	2,070 kN
Fatigue limit load, Cu	136 kN
Nref	1,300 Tr/min
Nlim	1,900 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	6.09 Hz
Characteristic outer ring frequency, BPF0	7.59 Hz
Characteristic inner ring frequency, BPFI	10.41 Hz

Abutment dimensions

da min	187 mm
da max	3 mm
db min	185 mm
Ce min	18 mm
Da max	293 mm
ra max	3 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 .