Technical data

23138EMKW33C4

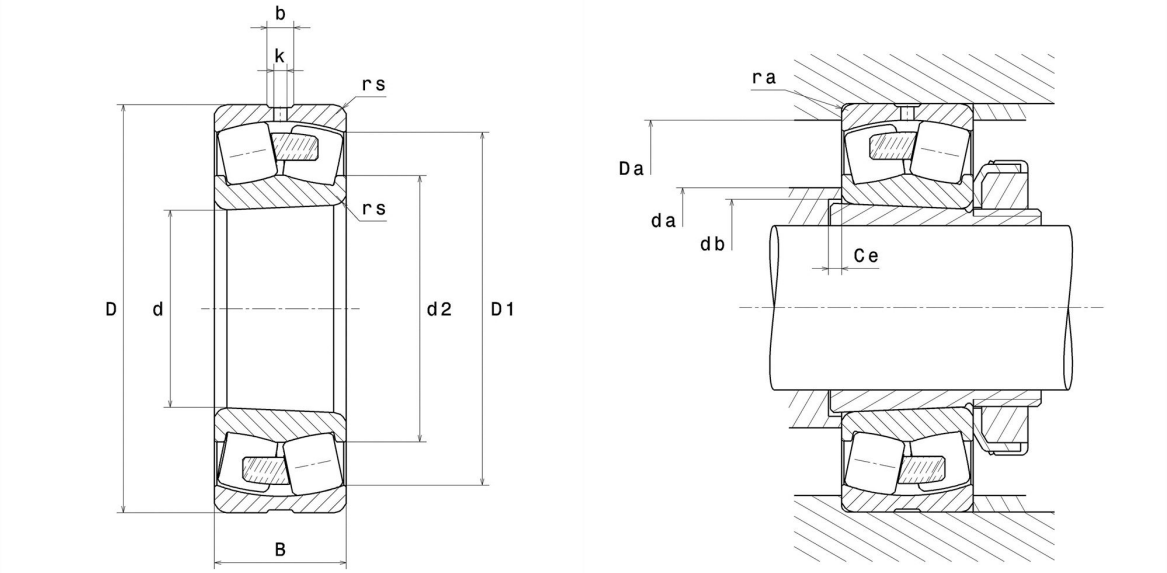
Double row spherical roller bearings



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

ULTAGE

Visual(s)



Product definition

d	190 mm
D	320 mm
B	104 mm
D1	283.8 mm
rs min	3 mm
Number of lubrication holes	3
b	16.55 mm
k	8 mm
Associated sleeve reference	H3138
e	0.29
Y1	2.32
Y2	3.45
Y0	2.26
Radial clearance class	C4
Mass	32.45 kg
Brand	SNR

Product performance

Dynamic load, C	1,670 kN
Static load, C0	2,250 kN
Fatigue limit load, Cu	144 kN
Nref	1,500 Tr/min
Nlim	2,000 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	7.47 Hz
Characteristic outer ring frequency, BPF0	9.58 Hz
Characteristic inner ring frequency, BPFI	12.42 Hz

Abutment dimensions

da min	204 mm
da max	2.5 mm
db min	202 mm
Ce min	9 mm
Da max	306 mm
ra max	2.5 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 .