Technical data

23238.EMW33C3

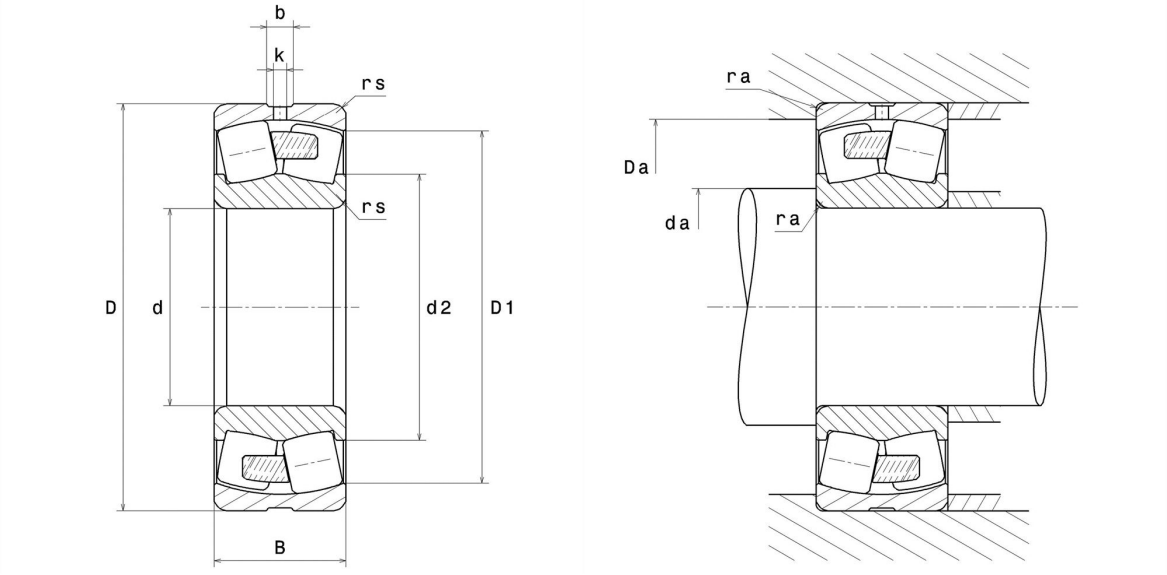
Double row spherical roller bearings



Spherical roller bearing, one-piece machined cage, groove and lubrication holes on outer ring

ULTAGE

Visual(s)



Product definition

d	190 mm
D	340 mm
B	120 mm
d2	220.8 mm
D1	298.1 mm
rs min	4 mm
Number of lubrication holes	3
b	17.5 mm
k	8 mm
Associated sleeve reference	P0
e	0.33
Y1	2.03
Y2	3.02
Y0	1.98
Radial clearance class	C3
Mass	46 kg
Brand	SNR

Product performance

Dynamic load, C	1,990 kN
Static load, C0	2,480 kN
Fatigue limit load, Cu	153 kN
Nref	1,200 Tr/min
Nlim	1,800 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	6.24 Hz
Characteristic outer ring frequency, BPF0	7.63 Hz
Characteristic inner ring frequency, BPFI	10.37 Hz

Abutment dimensions

da min	207 mm
da max	3 mm
Da max	323 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

$P_0 = X_0.Fr + Y_0.Fa$

X_0	Y_0
1	Y0

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