Technical data

24040.EMW33C3

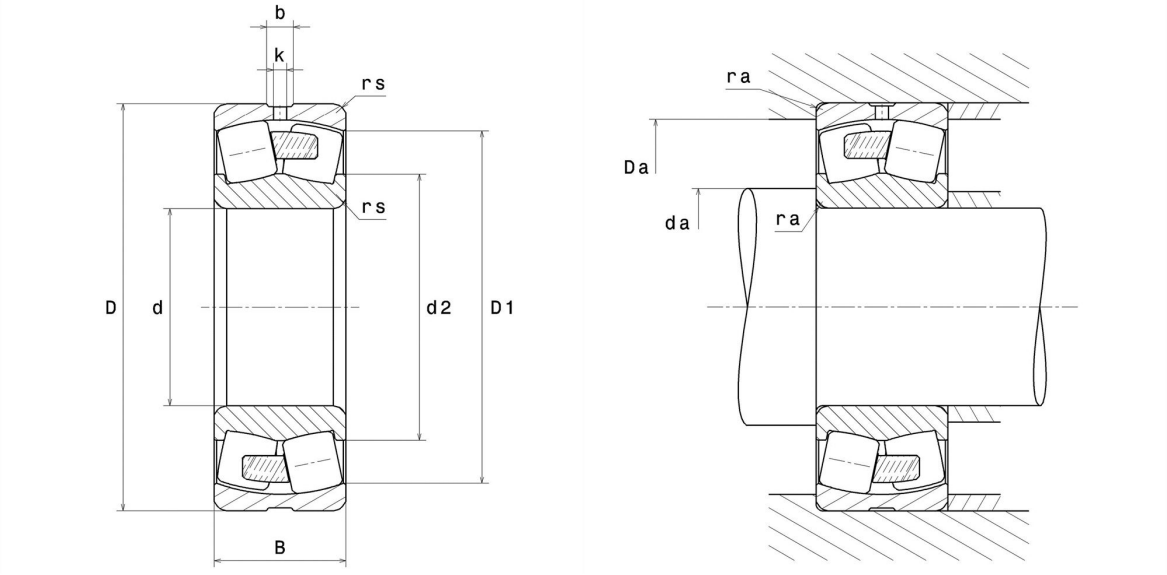
Double row spherical roller bearings



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

ULTAGE

Visual(s)



Product definition

d	200 mm
D	310 mm
B	109 mm
D1	283.3 mm
rs min	2.1 mm
Number of lubrication holes	3
b	12.7 mm
k	6 mm
Associated sleeve reference	P0
e	0.33
Y1	2.06
Y2	3.07
Y0	2.01
Radial clearance class	C3
Mass	29.2 kg
Brand	SNR

Product performance

Dynamic load, C	1,520 kN
Static load, C0	2,120 kN
Fatigue limit load, Cu	135 kN
Nref	1,400 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	8.12 Hz
Characteristic outer ring frequency, BPF0	10.14 Hz
Characteristic inner ring frequency, BPFI	12.86 Hz

Abutment dimensions

da min	210.2 mm
da max	2 mm
Da max	299.8 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

$P_0 = X_0.Fr + Y_0.Fa$

X_0	Y_0
1	Y0

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