Technical data

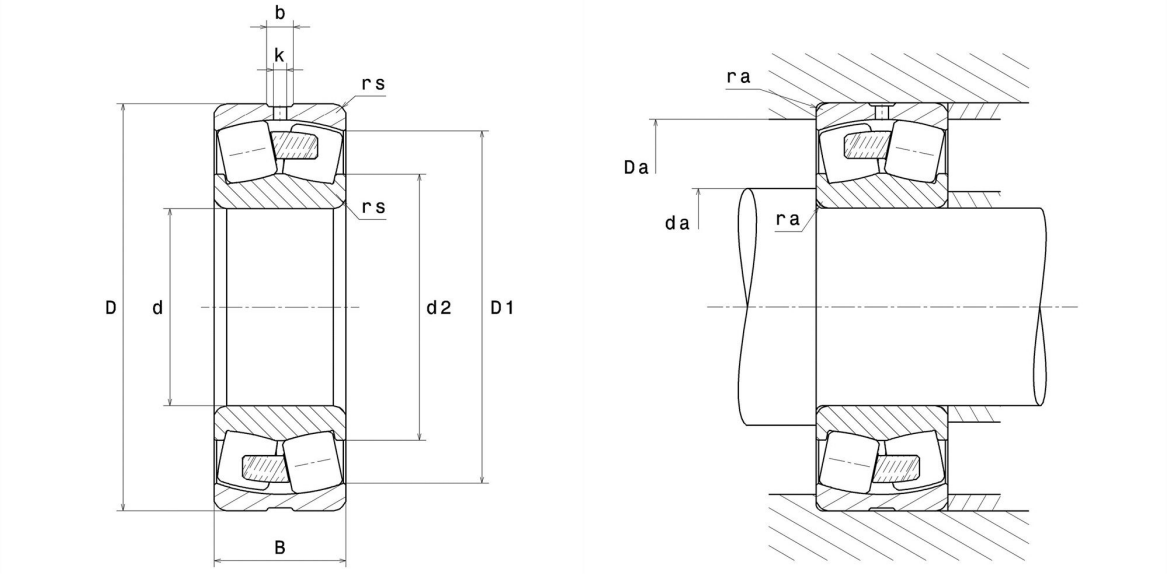
23040.EMW33C3

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	82 mm
D1	282.3 mm
rs min	2.1 mm
Number of lubrication holes	3
b	14.3 mm
k	7 mm
Associated sleeve reference	P0
e	0.23
Y1	2.95
Y2	4.4
Y0	2.89
Radial clearance class	C3
Mass	24.1 kg
Brand	SNR

Product performance

Dynamic load, C	1,310 kN
Static load, C0	1,790 kN
Fatigue limit load, Cu	135 kN
Nref	1,800 Tr/min
Nlim	2,300 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	8.37 Hz
Characteristic outer ring frequency, BPF0	10.6 Hz
Characteristic inner ring frequency, BPFI	13.4 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 .