Technical data

24140.EMW33

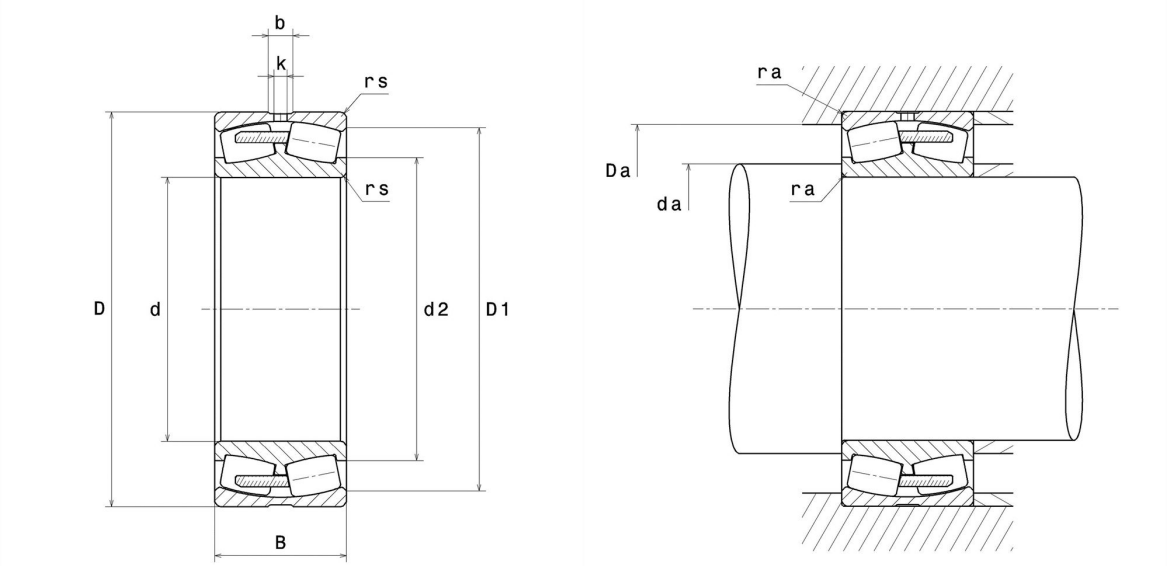
Double row spherical roller bearings



Spherical roller bearing, with central rib on inner ring, one-piece machined cage centred on inner ring, groove and lubrication holes on outer ring

ULTAGE

Visual(s)



Product definition

d	200 mm
D	340 mm
B	140 mm
D1	291 mm
rs min	3 mm
Number of lubrication holes	3
b	17 mm
k	8 mm
Associated sleeve reference	P0
e	0.39
Y1	1.74
Y2	2.59
Y0	1.7
Radial clearance class	CN
Mass	51.3 kg
Brand	SNR

Product performance

Dynamic load, C	2,130 kN
Static load, C0	2,930 kN
Fatigue limit load, Cu	153 kN
Nref	1,000 Tr/min
Nlim	1,500 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	7.05 Hz
Characteristic outer ring frequency, BPF0	8.65 Hz
Characteristic inner ring frequency, BPFI	11.35 Hz

Abutment dimensions

da min	214 mm
da max	2.5 mm
Da max	326 mm
ra max	2.5 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

Fa / Fr ≤ 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 .