Technical data

22240.EMW33C4

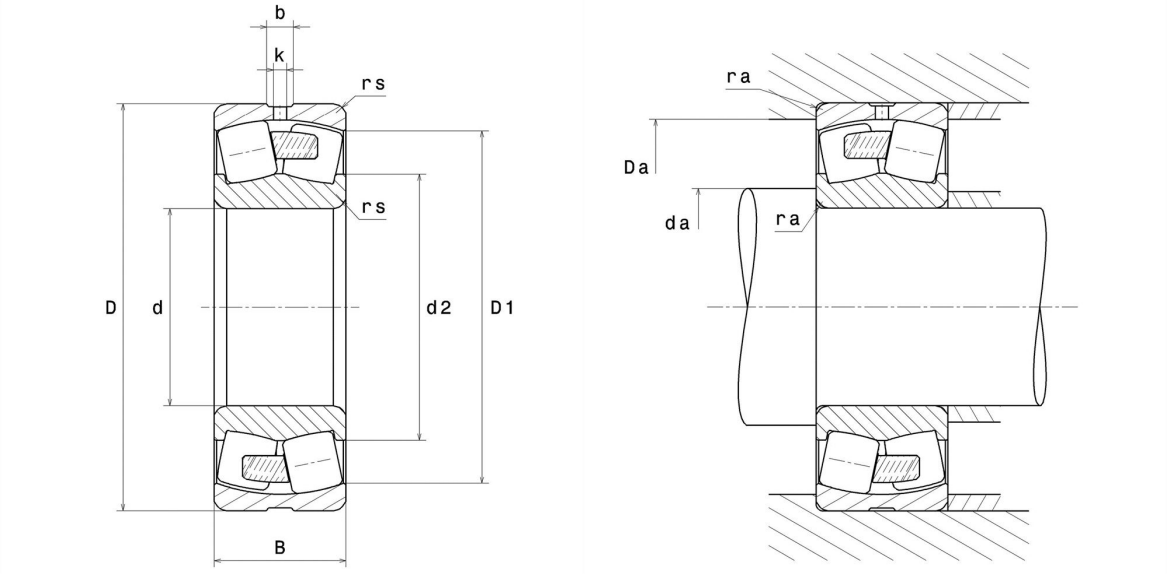
Double row spherical roller bearings



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

ULTAGE

Visual(s)



Product definition

d	200 mm
D	360 mm
B	98 mm
D1	322.3 mm
rs min	4 mm
Number of lubrication holes	3
b	20 mm
k	10 mm
Associated sleeve reference	P0
e	0.25
Y1	2.74
Y2	4.08
Y0	2.68
Radial clearance class	C4
Mass	42.53 kg
Brand	SNR

Product performance

Dynamic load, C	1,810 kN
Static load, C0	2,100 kN
Fatigue limit load, Cu	177 kN
Nref	1,500 Tr/min
Nlim	2,300 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	6.04 Hz
Characteristic outer ring frequency, BPF0	7.57 Hz
Characteristic inner ring frequency, BPFI	10.43 Hz

Abutment dimensions

da min	217 mm
da max	3 mm
Da max	343 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 .