Technical data

23240EMKW33

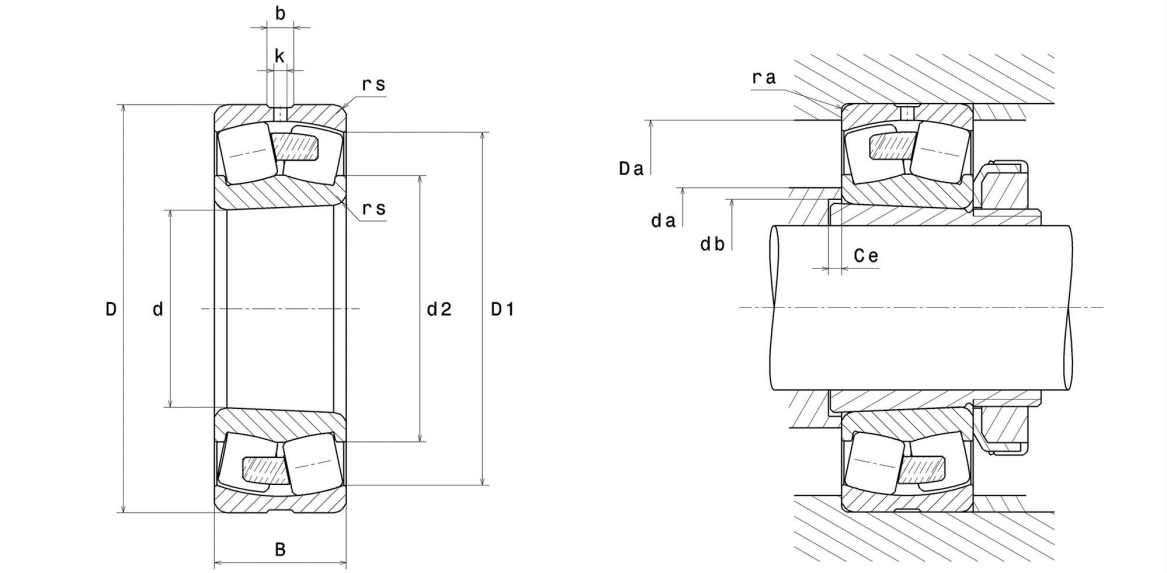
Double row spherical roller bearings



Spherical roller bearing, one-piece machined cage, groove and lubrication holes on outer ring, tapered bore 1:12

ULTAGE

Visual(s)



Product definition

d	200 mm
D	360 mm
B	128 mm
D1	314.8 mm
rs min	4 mm
Number of lubrication holes	3
b	18.8 mm
k	9 mm
Associated sleeve reference	H2340
e	0.34
Y1	1.98
Y2	2.94
Y0	1.93
Radial clearance class	CN
Mass	55.8 kg
Brand	SNR

Product performance

Dynamic load, C	2,250 kN
Static load, C0	2,840 kN
Fatigue limit load, Cu	173 kN
Nref	1,100 Tr/min
Nlim	1,700 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	6.21 Hz
Characteristic outer ring frequency, BPF0	7.62 Hz
Characteristic inner ring frequency, BPFI	10.38 Hz

Abutment dimensions

da min	217 mm
da max	3 mm
db min	216 mm
Ce min	19 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

$Po = Xo.Fr + Yo.Fa$

X_0	Y_0
1	Y0

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