Technical data

22215.EMKW33C3

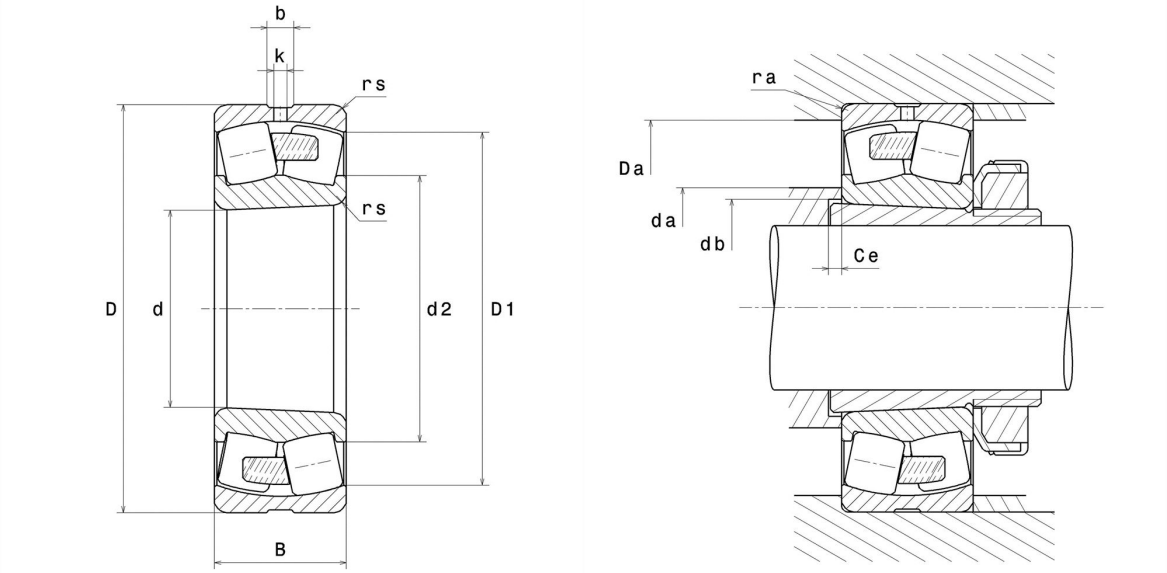
Double row spherical roller bearings



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

ULTAGE

Visual(s)



Product definition

d	75 mm
D	130 mm
B	31 mm
D1	117.8 mm
rs min	1.5 mm
Number of lubrication holes	3
b	7.4 mm
k	3.5 mm
Associated sleeve reference	H315
e	0.22
Y1	3.13
Y2	4.67
Y0	3.06
Radial clearance class	C3
Mass	1.68 kg
Brand	SNR

Product performance

Dynamic load, C	244 kN
Static load, C0	249 kN
Fatigue limit load, Cu	30.2 kN
Nref	4,600 Tr/min
Nlim	6,200 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	6.71 Hz
Characteristic outer ring frequency, BPF0	8.13 Hz
Characteristic inner ring frequency, BPFI	10.87 Hz

Abutment dimensions

da min	84 mm
da max	1.5 mm
db min	80 mm
Ce min	12 mm
Da max	121 mm
ra max	1.5 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 .