Technical data

22234.EMKW33C3

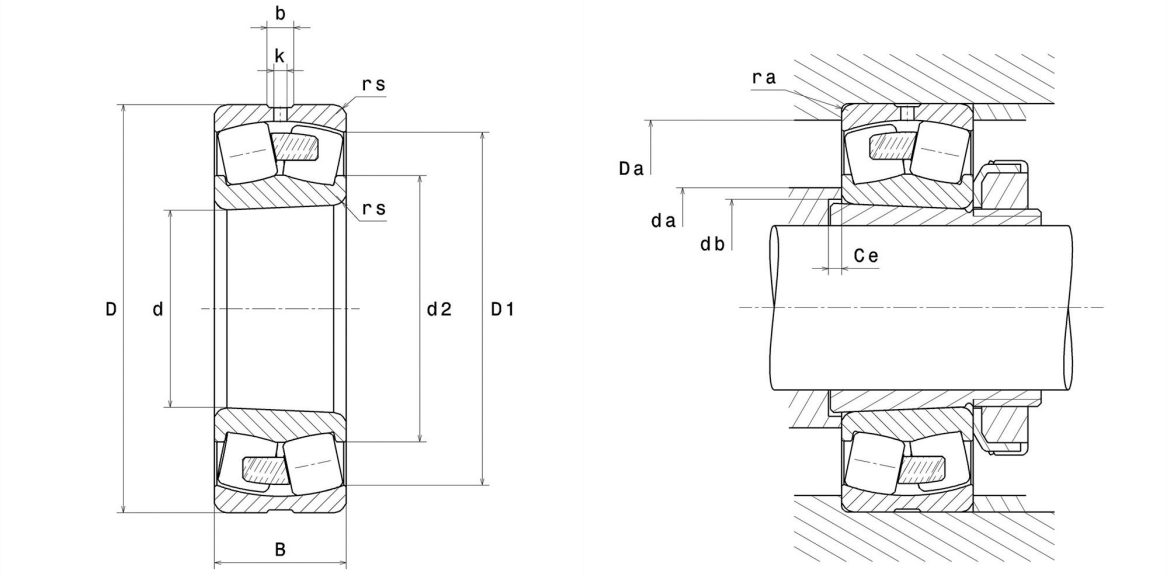
Double row spherical roller bearings



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

ULTAGE

Visual(s)



Product definition

d	170 mm
D	310 mm
B	86 mm
D1	276.4 mm
rs min	4 mm
Number of lubrication holes	3
b	18 mm
k	8 mm
Associated sleeve reference	H3134
e	0.26
Y1	2.6
Y2	3.87
Y0	2.54
Radial clearance class	C3
Mass	28 kg
Brand	SNR

Product performance

Dynamic load, C	1,400 kN
Static load, C0	1,610 kN
Fatigue limit load, Cu	136 kN
Nref	1,900 Tr/min
Nlim	2,700 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	6.11 Hz
Characteristic outer ring frequency, BPF0	7.58 Hz
Characteristic inner ring frequency, BPFI	10.42 Hz

Abutment dimensions

da min	187 mm
da max	3 mm
db min	180 mm
Ce min	10 mm
Da max	293 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 .