Technical data

23144.EMKW33C4

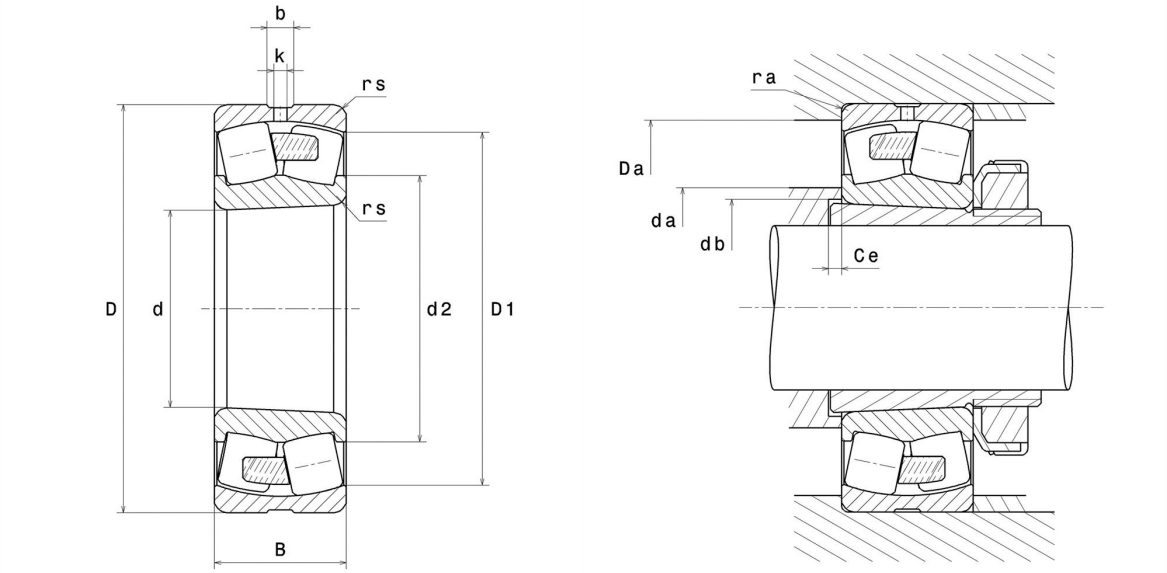
Double row spherical roller bearings



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

ULTAGE

Visual(s)



Product definition

d	220 mm
D	370 mm
B	120 mm
D1	327.9 mm
rs min	4 mm
Number of lubrication holes	3
b	19.1 mm
k	9 mm
Associated sleeve reference	H3144
e	0.3
Y1	2.28
Y2	3.39
Y0	2.23
Radial clearance class	C4
Mass	52.21 kg
Brand	SNR

Product performance

Dynamic load, C	2,190 kN
Static load, C0	2,940 kN
Fatigue limit load, Cu	185 kN
Nref	1,200 Tr/min
Nlim	1,700 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	7.16 Hz
Characteristic outer ring frequency, BPF0	9.09 Hz
Characteristic inner ring frequency, BPFI	11.91 Hz

Abutment dimensions

da min	237 mm
da max	3 mm
db min	233 mm
Ce min	9 mm
Da max	353 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 .