Technical data

22340.EMKW33C3

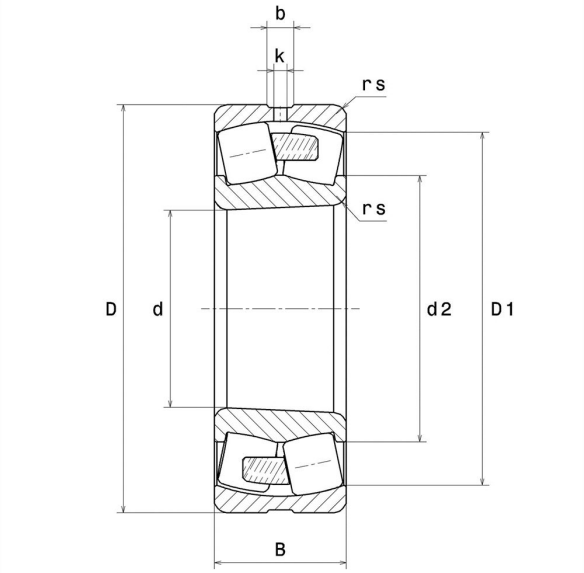
Double row spherical roller bearings

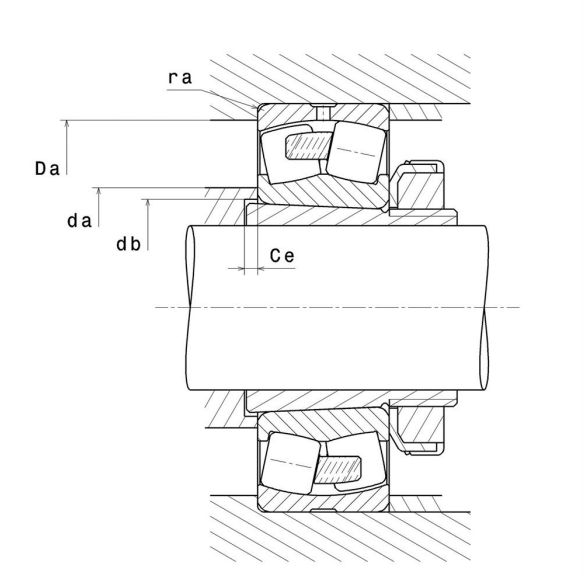


Spherical roller bearing, one-piece machined cage, groove and lubrication holes on outer ring, tapered bore 1:12

ULTAGE

Visual(s)





Product definition

d	200 mm
D	420 mm
B	138 mm
d2	280 mm
D1	363.1 mm
rs min	5 mm
Number of lubrication holes	3
b	21.1 mm
k	10 mm
Associated sleeve reference	H2340
e	0.31
Y1	2.15
Y2	3.2
Y0	2.1
Radial clearance class	C3
Mass	95 kg
Brand	SNR

Product performance

Dynamic load, C	2,830 kN
Static load, C0	3,530 kN
Fatigue limit load, Cu	229 kN
Nref	1,000 Tr/min
Nlim	1,500 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	5.96 Hz
Characteristic outer ring frequency, BPF0	7.56 Hz
Characteristic inner ring frequency, BPFI	10.44 Hz

Abutment dimensions

da min	220 mm
da max	4 mm
db min	216 mm
Ce min	9 mm
Da max	400 mm
ra max	4 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 .