



Technical data

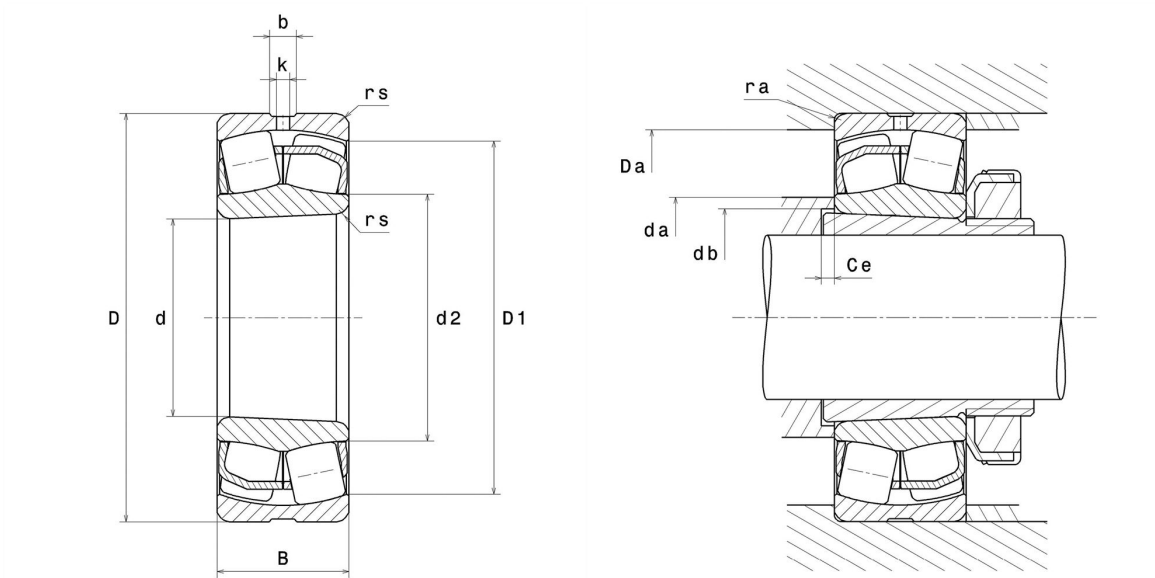
22216.EAKW33

Double row spherical roller bearings

Spherical roller bearing, pressed steel cage, groove and lubrication holes on outer ring, tapered bore 1:12

ULTAGE

Visual(s)



Product definition

d	80 mm
D	140 mm
B	33 mm
d2	94.9 mm
D1	126.7 mm
rs min	2 mm
Number of lubrication holes	3
b	7.87 mm
k	3.5 mm
Associated sleeve reference	H316
e	0.22
Y1	3.14
Y2	4.67
Y0	3.07
Radial clearance class	CN
Mass	2.04 kg
Brand	SNR

Product performance

Dynamic load, C	278 kN
Static load, C0	287 kN
Fatigue limit load, Cu	33.4 kN
Nref	4,300 Tr/min
Nlim	5,800 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	6.68 Hz
Characteristic outer ring frequency, BPF0	8.12 Hz
Characteristic inner ring frequency, BPFI	10.88 Hz

Abutment dimensions

da min	91 mm
db min	85 mm
Ce min	12 mm
Da max	129 mm
ra max	2 mm

Calculation factors

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

Fa / Fr ≤ e		Fa / Fr > e	
X	Y	X	Y
1	Y1	0.67	Y2

Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

X ₀	Y ₀
1	Y0

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