

PDF technical sheet

10X22217EAKW33EE

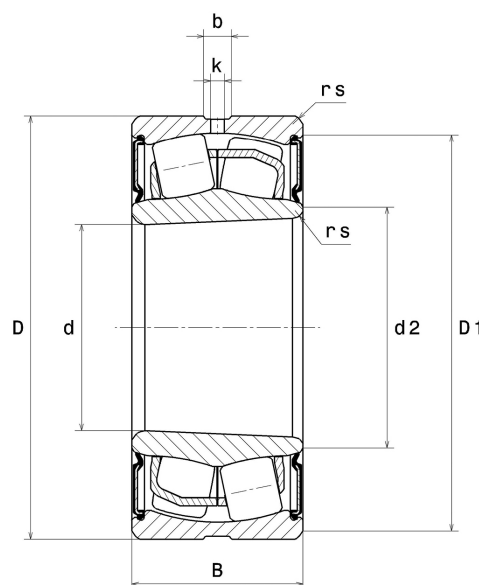


Double row spherical roller bearings

Spherical roller bearing, pressed steel cage, groove and lubrication holes on outer ring, tapered bore 1:12, non ISO width, contact seals on both sides

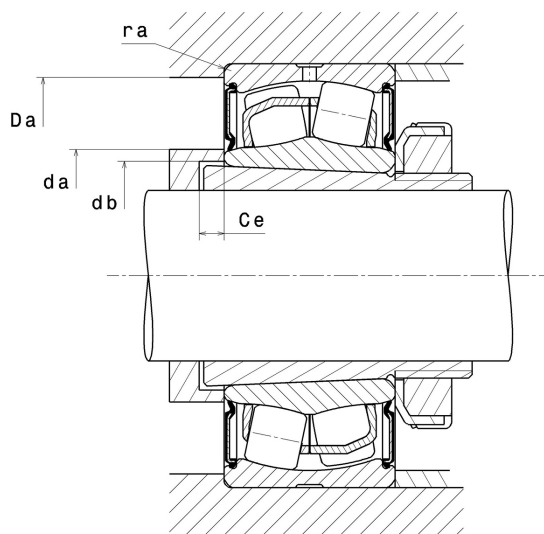
Product definition

d	3.3465 "
D	5.9055 "
B	1.7323 "
d2	3.8268 "
D1	5.5433 "
rs min	0.0787 "
Number of lubrication holes	3
b	0.3110 "
k	0.1378 "
e	0.22
Y1	3.07
Y2	4.57
Y0	3
Radial clearance class	CN
Mass	10.23 oz
Brand	SNR



Product performance

Dynamic load, C	324 kN
Static load, C0	330 kN
Fatigue limit load, Cu	46.20 kN
Nlim	1,350 RPM
Min operating temperature, Tmin	14 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	6.37 Hz
Characteristic outer ring frequency, BPF0	7.63 Hz
Characteristic inner ring frequency, BPF1	10.37 Hz



Abutment dimensions

da min	3.7795 "
Da max	5.5433 "
ra max	0.0787 "

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 .