

PDF technical sheet

10X22219EAKW33EE

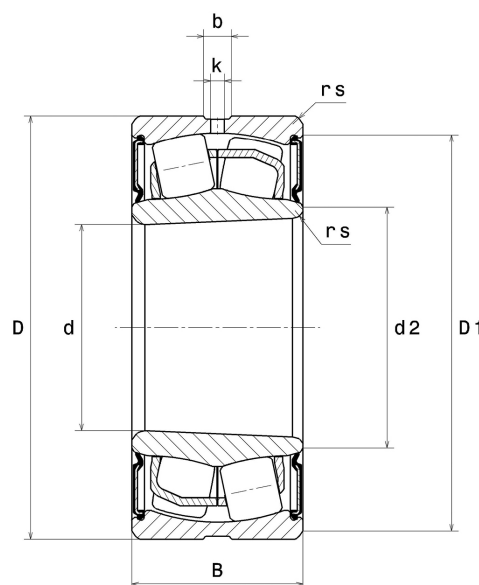


Double row spherical roller bearings

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

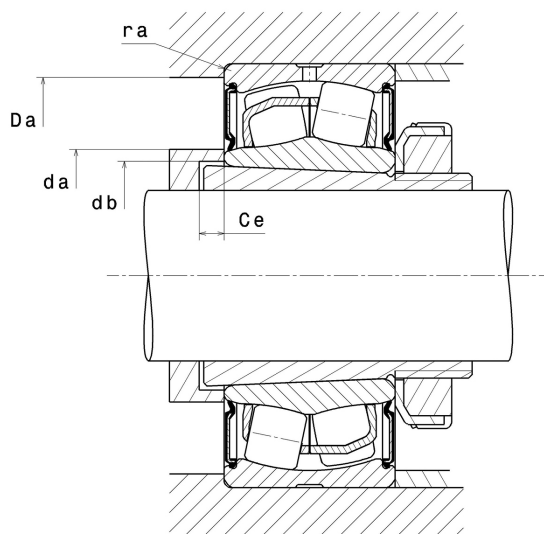
Product definition

d	3.7402 "
D	6.6929 "
B	2.0079 "
d2	4.2244 "
D1	6.1575 "
rs min	0.0827 "
Number of lubrication holes	3
b	0.3909 "
k	0.1772 "
e	0.23
Y1	2.95
Y2	4.4
Y0	2.89
Radial clearance class	CN
Mass	15.24 oz
Brand	SNR



Product performance

Dynamic load, C	416 kN
Static load, C0	417 kN
Fatigue limit load, Cu	47.90 kN
Nlim	1,050 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	5.95 Hz
Characteristic outer ring frequency, BPF0	7.13 Hz
Characteristic inner ring frequency, BPF1	9.88 Hz



Abutment dimensions

da min	4.2126 "
da max	4.2244 "
Da max	6.2205 "
ra max	0.0787 "

Calculation factors

Equivalent dynamic radial load

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

$F_a / F_r \leq e$		$F_a / F_r > e$	
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 .