

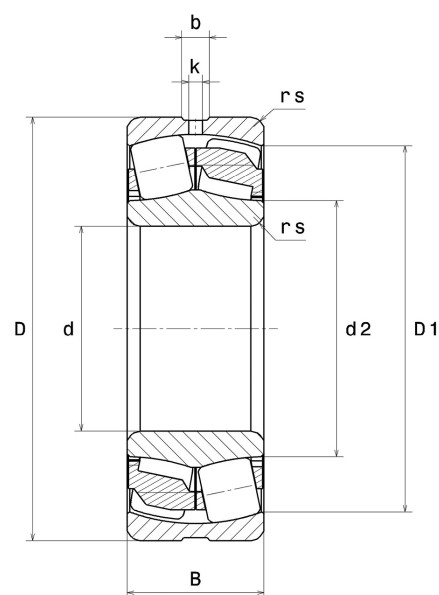
PDF technical sheet 22209EG15W33C4



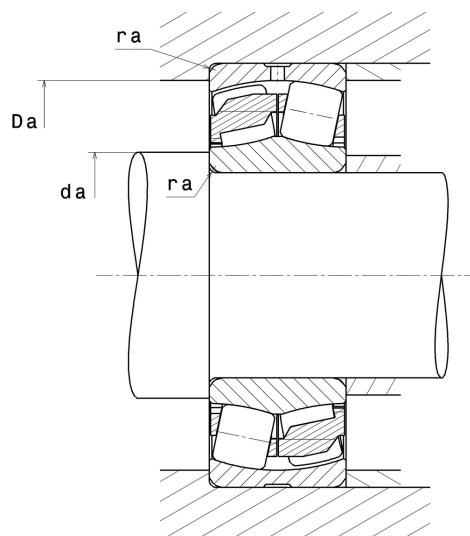
Double row spherical roller bearings

Spherical roller bearing, polyamide cage, groove and lubrication holes on outer ring

Product definition	
d	1.7717 "
D	3.3465 "
B	0.9055 "
d2	2.1614 "
D1	2.9764 "
rs min	0.0433 "
Number of lubrication holes	3
b	0.2283 "
k	0.0984 "
e	0.26
Y1	2.64
Y2	3.94
Y0	2.58
Radial clearance class	C4
Mass	1.97 oz
Brand	SNR



Product performance	
Dynamic load, C	121 kN
Static load, C0	113 kN
Fatigue limit load, Cu	12.60 kN
Nref	7,400 RPM
Nlim	9,800 RPM
Min operating temperature, Tmin	-4 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	6.07 Hz
Characteristic outer ring frequency, BPF0	7.15 Hz
Characteristic inner ring frequency, BPF1	9.85 Hz



Abutment dimensions

da min	2.0472 "
Da max	3.0709 "
ra max	0.0394 "

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 .