

PDF technical sheet 22207EG15W33



Double row spherical roller bearings

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

Product definition	
d	1.3780 "
D	2.8346 "
B	0.9055 "
d2	1.7756 "
D1	2.4803 "
rs min	0.0433 "
Number of lubrication holes	3
b	0.1929 "
k	0.0787 "
e	0.31
Y1	2.21
Y2	3.29
Y0	2.16
Radial clearance class	CN
Mass	1.48 oz
Brand	SNR



Product performance	
Dynamic load, C	100 kN
Static load, C0	92 kN
Fatigue limit load, Cu	8.65 kN
Nref	9,500 RPM
Nlim	12,000 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	5.75 Hz
Characteristic outer ring frequency, BPF0	6.68 Hz
Characteristic inner ring frequency, BPF1	9.33 Hz



Abutment dimensions

da min	1.6535 "
Da max	2.5591 "
ra max	0.0394 "

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 .