

PDF technical sheet 2222EG15W33C3



Double row spherical roller bearings

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

Product definition	
d	4.3307 "
D	7.8740 "
B	2.0866 "
d2	5.1220 "
D1	7.0236 "
rs min	0.0827 "
Number of lubrication holes	3
b	0.4803 "
k	0.2362 "
e	0.25
Y1	2.69
Y2	4
Y0	2.63
Radial clearance class	C3
Mass	23.60 oz
Brand	SNR



Product performance	
Dynamic load, C	602 kN
Static load, C0	643 kN
Fatigue limit load, Cu	64.30 kN
Nref	3,300 RPM
Nlim	4,100 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	6.10 Hz
Characteristic outer ring frequency, BPF0	7.58 Hz
Characteristic inner ring frequency, BPF1	10.42 Hz



Abutment dimensions

da min	4.8031 "
Da max	7.4016 "
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 .