

PDF technical sheet 24122EAN1W33C3



Double row spherical roller bearings

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

Product definition	
d	4.3307 "
D	7.0866 "
B	2.7165 "
d2	4.7913 "
D1	6.1890 "
rs min	0.0787 "
Number of lubrication holes	3
b	0.3307 "
k	0.1575 "
e	0.36
Y1	1.9
Y2	2.83
Y0	1.86
Radial clearance class	C3
Mass	23.63 oz
Brand	SNR



Product performance	
Dynamic load, C	622 kN
Static load, C0	769 kN
Fatigue limit load, Cu	52.40 kN
Nref	2,200 RPM
Nlim	2,900 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	392 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	7.17 Hz
Characteristic outer ring frequency, BPF0	8.67 Hz
Characteristic inner ring frequency, BPF1	11.33 Hz



Abutment dimensions

da min	4.7638 "
Da max	6.6535 "
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 .