

PDF technical sheet 24036EAW33C5



Double row spherical roller bearings

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

Product definition	
d	7.0866 "
D	11.0236 "
B	3.9370 "
d2	7.9685 "
D1	9.8031 "
rs min	0.0827 "
Number of lubrication holes	3
b	0.4646 "
k	0.1969 "
e	0.31
Y1	2.21
Y2	3.29
Y0	2.16
Radial clearance class	C5
Mass	80.78 oz
Brand	SNR



Product performance	
Dynamic load, C	1,270 kN
Static load, C0	1,830 kN
Fatigue limit load, Cu	109 kN
Nref	1,500 RPM
Nlim	2,200 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	392 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	8.59 Hz
Characteristic outer ring frequency, BPF0	10.65 Hz
Characteristic inner ring frequency, BPF1	13.35 Hz



Abutment dimensions

da min	7.4882 "
Da max	10.6220 "
ra max	0.0787 "

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 .