

PDF technical sheet

22312EAW33



Double row spherical roller bearings

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

Product definition	
d	2.3622 "
D	5.1181 "
B	1.8110 "
d2	2.9646 "
D1	4.4055 "
rs min	0.0827 "
Number of lubrication holes	3
b	0.3425 "
k	0.1575 "
e	0.35
Y1	1.95
Y2	2.9
Y0	1.91
Radial clearance class	CN
Mass	9.89 oz
Brand	SNR



Product performance	
Dynamic load, C	340 kN
Static load, C0	319 kN
Fatigue limit load, Cu	29.60 kN
Nref	4,300 RPM
Nlim	5,100 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	392 °C
Characteristic cage frequency, FTF	0.40 Hz
Characteristic rolling element frequency, BSF	4.77 Hz
Characteristic outer ring frequency, BPF0	5.63 Hz
Characteristic inner ring frequency, BPF1	8.38 Hz



Abutment dimensions

da min	2.8346 "
Da max	4.6457 "
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 .