

PDF technical sheet 23122EAKW33



Double row spherical roller bearings

Spherical roller bearing, pressed steel cage, groove and lubrication holes on outer ring, tapered bore 1:12

Product definition	
d	4.3307 "
D	7.0866 "
B	2.2047 "
d2	4.9331 "
D1	6.3346 "
rs min	0.0787 "
Number of lubrication holes	3
b	0.3504 "
k	0.1575 "
Associated sleeve reference	H3122
e	0.28
Y1	2.43
Y2	3.61
Y0	2.37
Radial clearance class	CN
Mass	18.73 oz
Brand	SNR



Product performance	
Dynamic load, C	547 kN
Static load, C0	669 kN
Fatigue limit load, Cu	51.90 kN
Nref	3,000 RPM
Nlim	3,500 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	7.50 Hz
Characteristic outer ring frequency, BPF0	9.15 Hz
Characteristic inner ring frequency, BPF1	11.85 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 .