

PDF technical sheet 22244EMKW33C3



Double row spherical roller bearings

Spherical roller bearing, one-piece machined cage, groove and lubrication holes on outer ring, tapered bore 1:12

Product definition	
d	8.6614 "
D	15.7480 "
B	4.2520 "
D1	14.0827 "
rs min	0.1575 "
Number of lubrication holes	3
b	0.8110 "
k	0.4331 "
Associated sleeve reference	H3144
e	0.25
Y1	2.74
Y2	4.08
Y0	2.68
Radial clearance class	C3
Mass	208.12 oz
Brand	SNR



Product performance	
Dynamic load, C	2,210 kN
Static load, C0	2,690 kN
Fatigue limit load, Cu	213 kN
Nref	1,300 RPM
Nlim	2,000 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	392 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	6.35 Hz
Characteristic outer ring frequency, BPF0	8.06 Hz
Characteristic inner ring frequency, BPF1	10.94 Hz



Abutment dimensions

da min	9.3307 "
Da max	15.0787 "
ra max	0.1181 "

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 .