

PDF technical sheet 22334EMKW33



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	6.6929 "
D	14.1732 "
B	4.7244 "
d2	9.2913 "
D1	12.3189 "
rs min	0.1575 "
Number of lubrication holes	3
b	0.7992 "
k	0.3937 "
Associated sleeve reference	H2334
e	0.32
Y1	2.09
Y2	3.11
Y0	2.04
Radial clearance class	CN
Mass	208.12 oz
Brand	SNR



Product performance	
Dynamic load, C	2,200 kN
Static load, C0	2,630 kN
Fatigue limit load, Cu	175 kN
Nref	1,200 RPM
Nlim	1,800 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	5.68 Hz
Characteristic outer ring frequency, BPF0	7.08 Hz
Characteristic inner ring frequency, BPF1	9.92 Hz



Abutment dimensions

da min	7.3622 "
db min	7.2835 "
Ce min	0.3150 "
Da max	13.5039 "
ra max	0.1181 "

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 .