

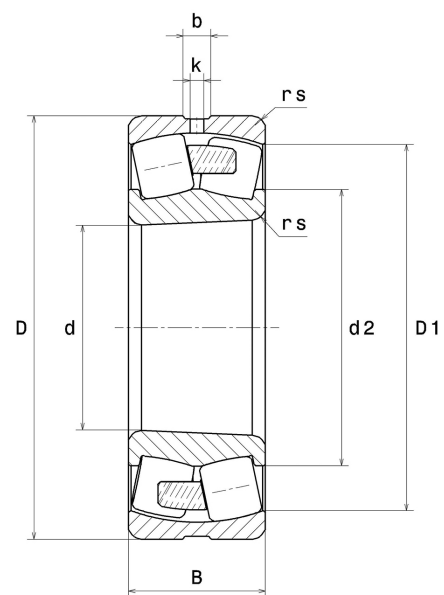
PDF technical sheet 22213EMKW33C3



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	2.5591 "
D	4.7244 "
B	1.2205 "
D1	4.2126 "
rs min	0.0591 "
Number of lubrication holes	3
b	0.3071 "
k	0.1378 "
Associated sleeve reference	H313
e	0.24
Y1	2.79
Y2	4.15
Y0	2.73
Radial clearance class	C3
Mass	5.39 oz
Brand	SNR



Product performance	
Dynamic load, C	217 kN
Static load, C0	212 kN
Fatigue limit load, Cu	24.50 kN
Nref	5,300 RPM
Nlim	6,900 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	6.18 Hz
Characteristic outer ring frequency, BPF0	7.17 Hz
Characteristic inner ring frequency, BPF1	9.83 Hz



Abutment dimensions

da min	2.9134 "
Da max	4.3701 "
ra max	0.0591 "

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 .