

PDF technical sheet 22248EMW33C4



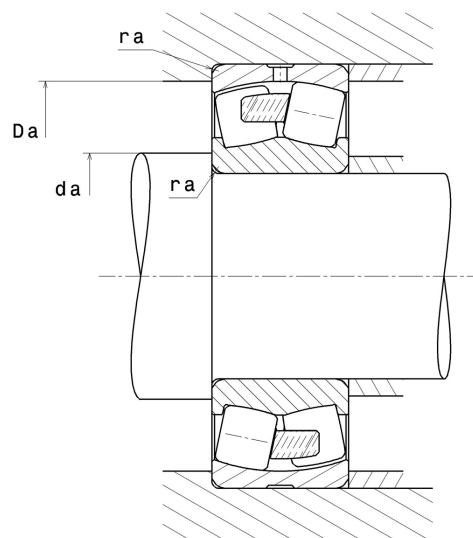
Double row spherical roller bearings

Spherical roller bearing, one-piece machined cage, groove and lubrication holes on outer ring

Product definition	
d	9.4488 "
D	17.3228 "
B	4.7244 "
d2	12.7362 "
D1	15.3583 "
rs min	0.1575 "
Number of lubrication holes	8
b	0.8295 "
k	0.4724 "
e	0.25
Y1	2.74
Y2	4.08
Y0	2.68
Radial clearance class	C4
Mass	297.22 oz
Brand	SNR



Product performance	
Dynamic load, C	2,500 kN
Static load, C0	3,550 kN
Fatigue limit load, Cu	235 kN
Nref	1,100 RPM
Nlim	1,800 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	8.13 Hz
Characteristic outer ring frequency, BPF0	10.12 Hz
Characteristic inner ring frequency, BPF1	12.88 Hz



Abutment dimensions

da min	10.1181 "
Da max	16.6535 "
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 .