

PDF technical sheet

24164EMW33



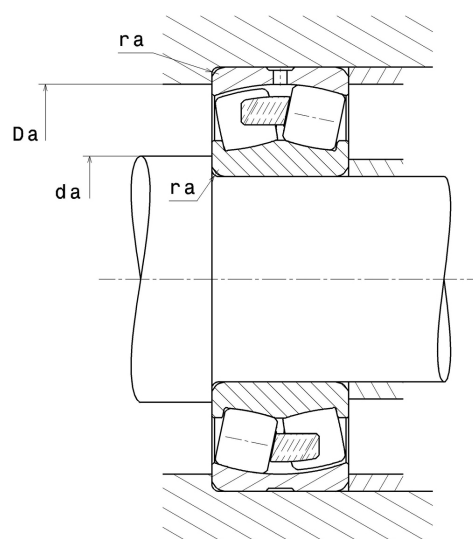
Double row spherical roller bearings

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

Product definition	
d	12.5984 "
D	21.2598 "
B	8.5827 "
d2	14.7559 "
D1	18.5079 "
rs min	0.1969 "
Number of lubrication holes	8
b	1.3811 "
k	0.7874 "
e	0.39
Y1	1.74
Y2	2.59
Y0	1.7
Radial clearance class	CN
Mass	709.71 oz
Brand	SNR



Product performance	
Dynamic load, C	5,160 kN
Static load, C0	7,620 kN
Fatigue limit load, Cu	342 kN
Nref	480 RPM
Nlim	950 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	392 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	7.03 Hz
Characteristic outer ring frequency, BPF0	8.65 Hz
Characteristic inner ring frequency, BPF1	11.35 Hz



Abutment dimensions

da min	13.3858 "
Da max	20.4724 "
ra max	0.1575 "

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 .