

PDF technical sheet 23068EMW33C4



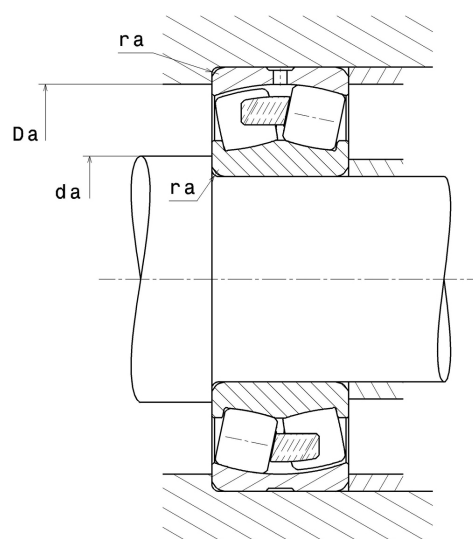
Double row spherical roller bearings

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

Product definition	
d	13.3858 "
D	20.4724 "
B	5.2362 "
d2	15.8189 "
D1	18.6969 "
rs min	0.1969 "
Number of lubrication holes	8
b	0.7874 "
k	0.4724 "
e	0.23
Y1	2.9
Y2	4.31
Y0	2.83
Radial clearance class	C4
Mass	370.73 oz
Brand	SNR



Product performance	
Dynamic load, C	3,220 kN
Static load, C0	4,970 kN
Fatigue limit load, Cu	331 kN
Nref	900 RPM
Nlim	1,400 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	392 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	9.21 Hz
Characteristic outer ring frequency, BPF0	12.07 Hz
Characteristic inner ring frequency, BPF1	14.93 Hz



Abutment dimensions

da min	14.0945 "
Da max	19.7638 "
ra max	0.1575 "

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 .