

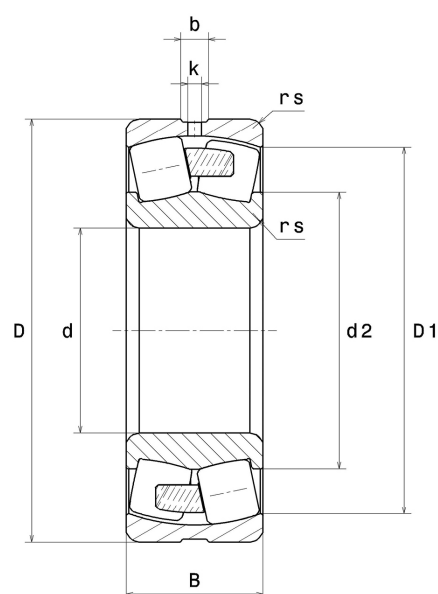
PDF technical sheet 23072EMW33



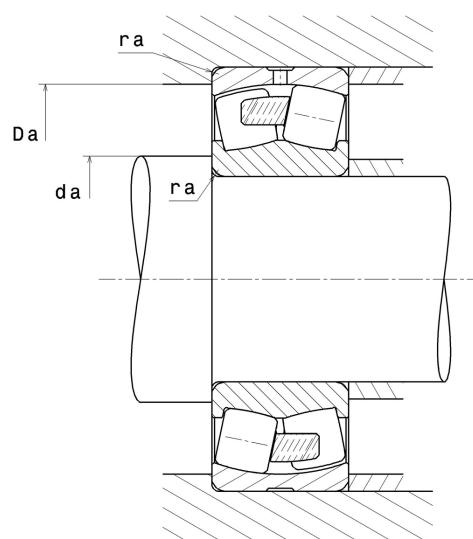
Double row spherical roller bearings

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

Product definition	
d	14.1732 "
D	21.2598 "
B	5.2756 "
d2	16.5276 "
D1	19.3740 "
rs min	0.1969 "
Number of lubrication holes	8
b	0.7913 "
k	0.4724 "
e	0.22
Y1	3.14
Y2	4.67
Y0	3.07
Radial clearance class	CN
Mass	386.60 oz
Brand	SNR



Product performance	
Dynamic load, C	3,250 kN
Static load, C0	5,070 kN
Fatigue limit load, Cu	353 kN
Nref	850 RPM
Nlim	1,300 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	9.56 Hz
Characteristic outer ring frequency, BPF0	12.57 Hz
Characteristic inner ring frequency, BPF1	15.43 Hz



Abutment dimensions

da min	14.8819 "
Da max	20.5512 "
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 .