

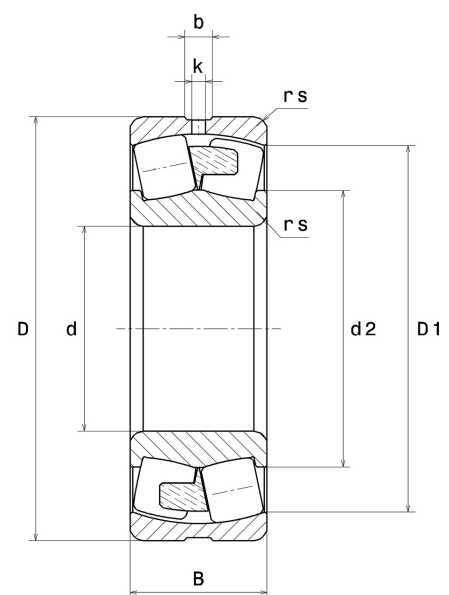
PDF technical sheet 23160EMW33C3



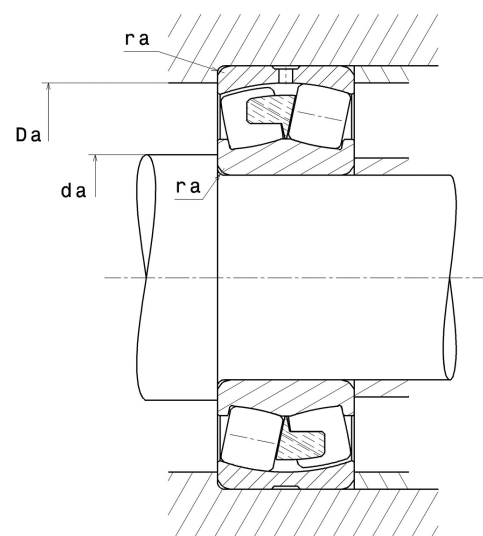
Double row spherical roller bearings

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

Product definition	
d	11.8110 "
D	19.6850 "
B	6.2992 "
D1	17.3386 "
rs min	0.1969 "
Number of lubrication holes	3
b	0.6575 "
k	0.3543 "
e	0.29
Y1	2.29
Y2	3.42
Y0	2.24
Radial clearance class	C3
Mass	447.98 oz
Brand	SNR



Product performance	
Dynamic load, C	2,970 kN
Static load, C0	5,240 kN
Fatigue limit load, Cu	321 kN
Nref	800 RPM
Nlim	1,000 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	7.41 Hz
Characteristic outer ring frequency, BPF0	9.13 Hz
Characteristic inner ring frequency, BPF1	11.87 Hz



Abutment dimensions

da min	12.5984 "
Da max	18.8976 "
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 .