

PDF technical sheet

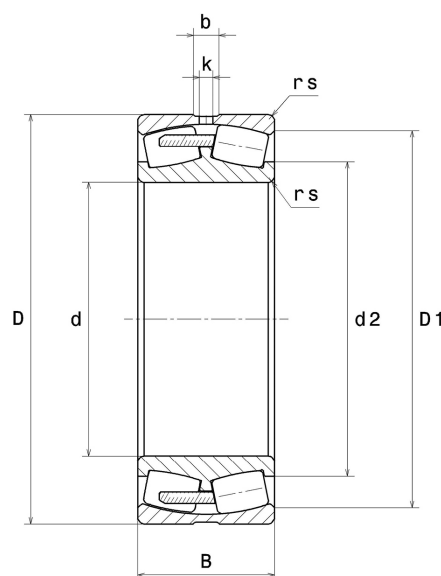
22356VMW33C3



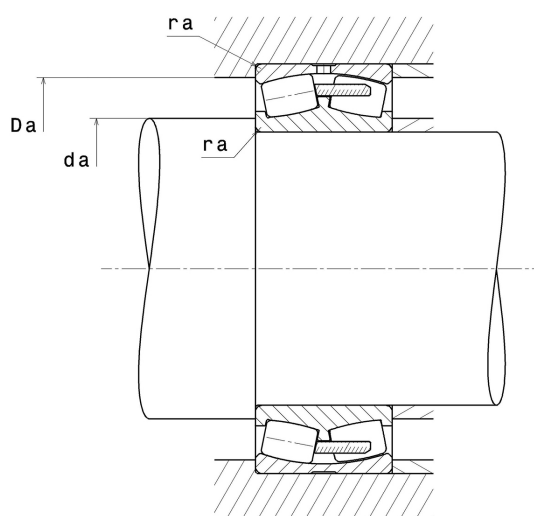
Double row spherical roller bearings

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

Product definition	
d	11.0236 "
D	22.8346 "
B	6.8898 "
D1	19.3622 "
rs min	0.2362 "
Number of lubrication holes	3
b	0.8780 "
k	0.4724 "
e	0.31
Y1	2.17
Y2	3.24
Y0	2.12
Radial clearance class	C3
Mass	818.36 oz
Brand	SNR



Product performance	
Dynamic load, C	3,330 kN
Static load, C0	4,980 kN
Fatigue limit load, Cu	404 kN
Nref	700 RPM
Nlim	1,100 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	392 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.69 Hz
Characteristic outer ring frequency, BPF0	7.08 Hz
Characteristic inner ring frequency, BPF1	9.92 Hz



Abutment dimensions

da min	12.0472 "
Da max	21.8110 "
ra max	0.1969 "

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 .