

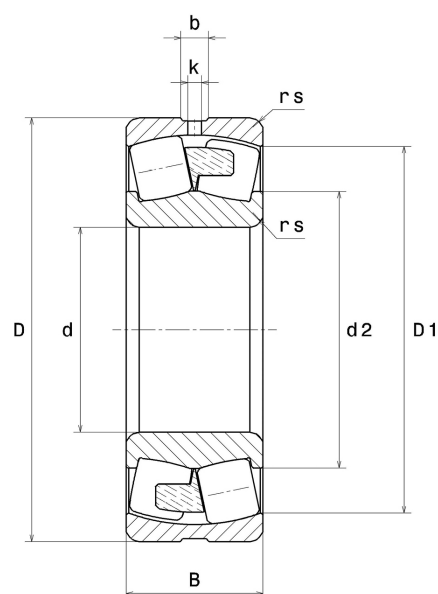
PDF technical sheet 23060EMW33C4



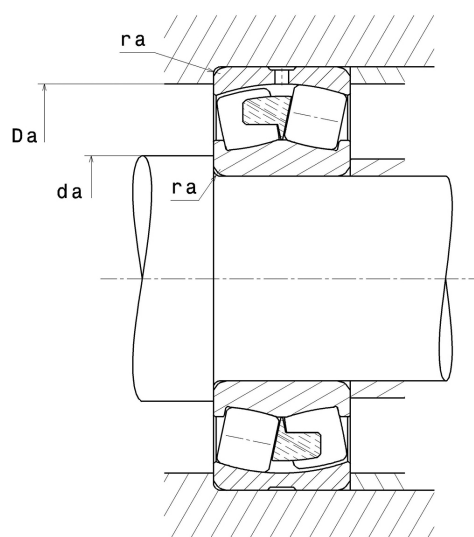
Double row spherical roller bearings

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

Product definition	
d	11.8110 "
D	18.1102 "
B	4.6457 "
d2	14.5394 "
D1	16.5394 "
rs min	0.1575 "
Number of lubrication holes	8
b	0.6299 "
k	0.3937 "
e	0.22
Y1	3.07
Y2	4.57
Y0	3
Radial clearance class	C4
Mass	262.79 oz
Brand	SNR



Product performance	
Dynamic load, C	2,420 kN
Static load, C0	4,230 kN
Fatigue limit load, Cu	251 kN
Nref	1,000 RPM
Nlim	1,500 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	392 °C
Characteristic cage frequency, FTF	0.46 Hz
Characteristic rolling element frequency, BSF	11.72 Hz
Characteristic outer ring frequency, BPF0	15.12 Hz
Characteristic inner ring frequency, BPF1	17.88 Hz



Abutment dimensions

da min	12.3858 "
Da max	17.5354 "
ra max	0.1181 "

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 .