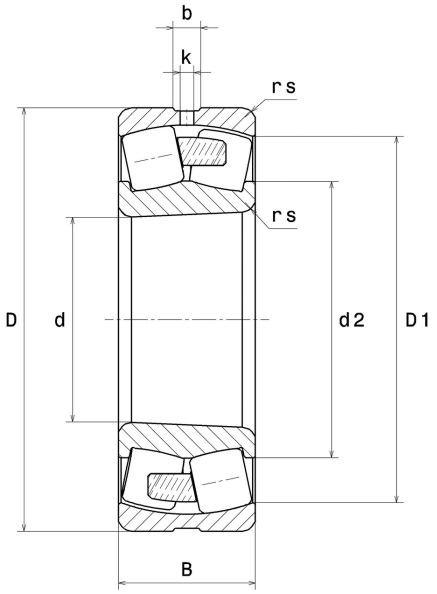
PDF technical sheet
23168EMKW33C3

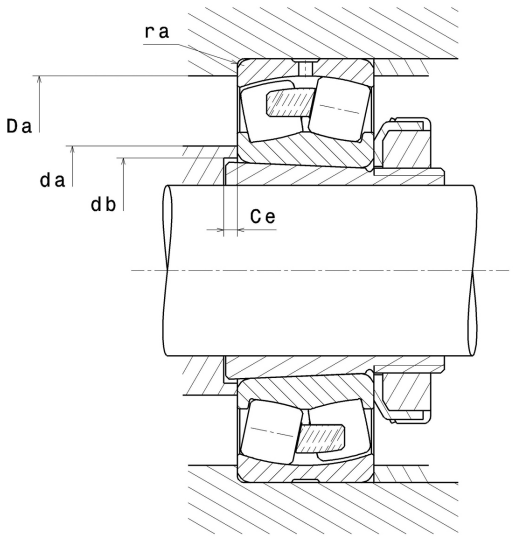
Double row spherical roller bearings

Spherical roller bearing, one-piece machined cage, groove and lubrication holes on outer ring, tapered bore 1:12

Product definition	
d	13.3858 "
D	22.8346 "
B	7.4803 "
D1	19.9449 "
rs min	0.1969 "
Number of lubrication holes	8
b	1.0630 "
k	0.6299 "
Associated sleeve reference	H3168H
e	0.31
Y1	2.18
Y2	3.24
Y0	2.13
Radial clearance class	C3
Mass	768.97 oz
Brand	SNR



Product performance	
Dynamic load, C	5,100 kN
Static load, C0	7,770 kN
Fatigue limit load, Cu	394 kN
Nref	620 RPM
Nlim	1,100 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	7.72 Hz
Characteristic outer ring frequency, BPF0	10.07 Hz
Characteristic inner ring frequency, BPFI	12.94 Hz



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Abutment dimensions	
da min	14.1732 "
Da max	22.0472 "
ra max	0.1575 "

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

Fa / Fr ≤ e		Fa / Fr > e	
X	Y	X	Y
1	Y1	0.67	Y2

Equivalent static radial load

$P_0 = X_0.Fr + Y_0.Fa$

X_0	Y_0
1	Y0

The values for e, Y1, Y2 and Y0 are shown in the above table .