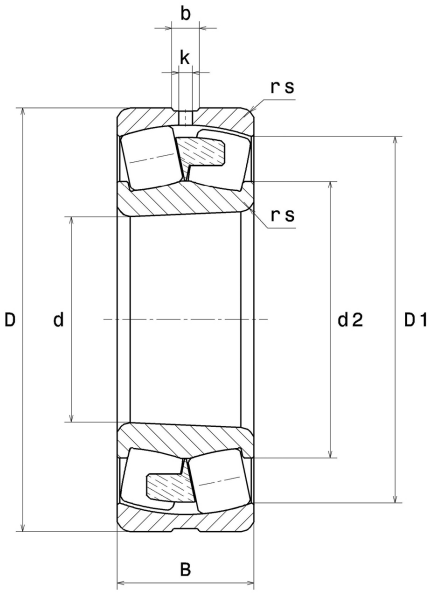
PDF technical sheet
23160EMKW33

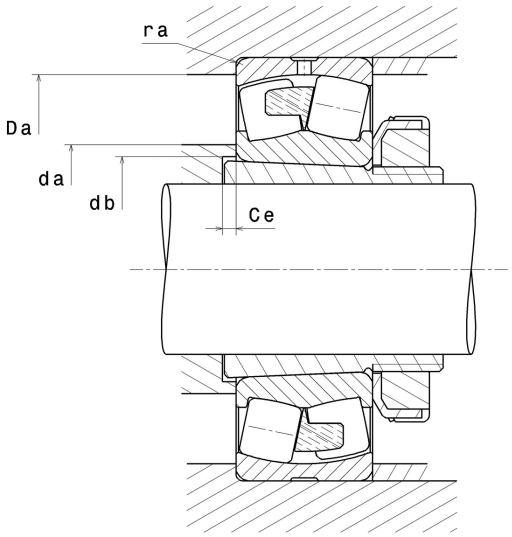
Double row spherical roller bearings

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

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 "
Associated sleeve reference	H3160H
e	0.29
Y1	2.29
Y2	3.42
Y0	2.24
Radial clearance class	CN
Mass	433.87 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, BPFI	11.87 Hz



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Abutment dimensions	
da min	12.5984 "
Da max	18.8976 "
ra max	0.1575 "

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$Fa / Fr \leq e$		$Fa / Fr > e$	
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 .