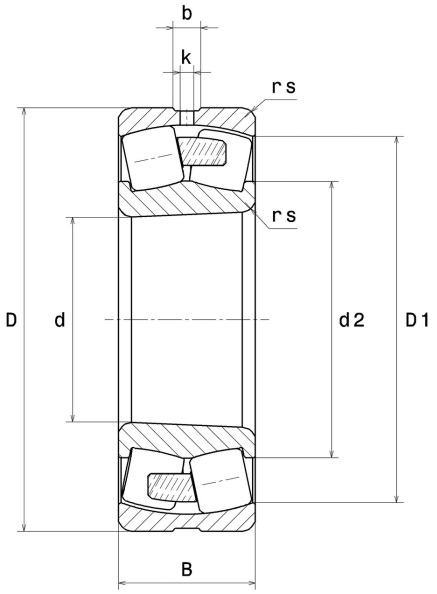
PDF technical sheet
23120EMKW33C4

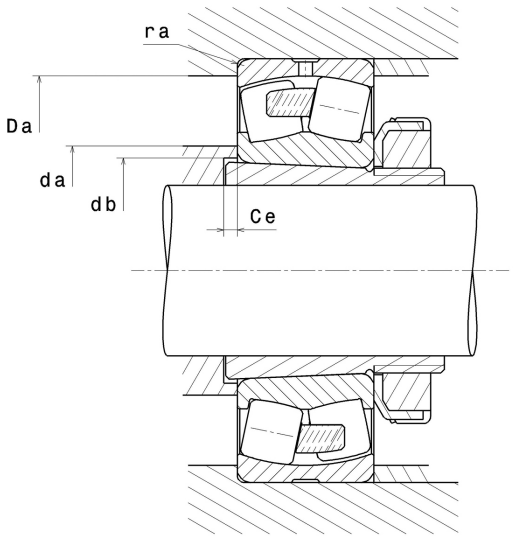
Double row spherical roller bearings

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

Product definition	
d	3.9370 "
D	6.4961 "
B	2.0472 "
D1	5.7835 "
rs min	0.0787 "
Number of lubrication holes	3
b	0.3307 "
k	0.1575 "
Associated sleeve reference	H3120
e	0.28
Y1	2.39
Y2	3.56
Y0	2.34
Radial clearance class	C4
Mass	15.52 oz
Brand	SNR



Product performance	
Dynamic load, C	471 kN
Static load, C0	575 kN
Fatigue limit load, Cu	46.30 kN
Nref	3,200 RPM
Nlim	3,900 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	7.57 Hz
Characteristic outer ring frequency, BPF0	9.60 Hz
Characteristic inner ring frequency, BPFI	12.41 Hz



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Code APE 2815 Z – Code NACE 28.15

Abutment dimensions	
da min	4.3701 "
Da max	6.0630 "
ra max	0.0787 "

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 .