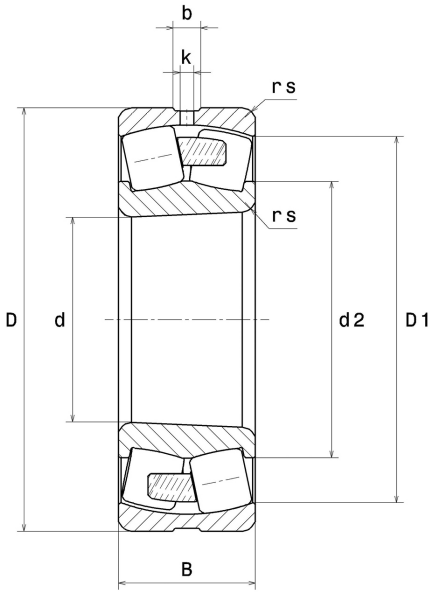
PDF technical sheet
23144EMKW33C3

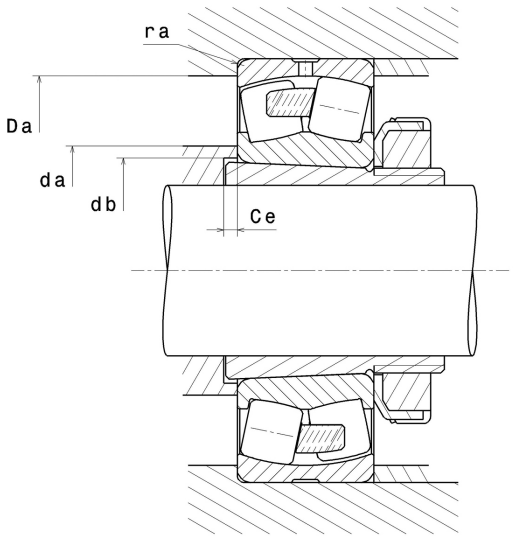
Double row spherical roller bearings

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

Product definition	
d	8.6614 "
D	14.5669 "
B	4.7244 "
D1	12.9094 "
rs min	0.1575 "
Number of lubrication holes	3
b	0.7520 "
k	0.3543 "
Associated sleeve reference	H3144
e	0.3
Y1	2.28
Y2	3.39
Y0	2.23
Radial clearance class	C3
Mass	177.96 oz
Brand	SNR



Product performance	
Dynamic load, C	2,190 kN
Static load, C0	2,940 kN
Fatigue limit load, Cu	185 kN
Nref	1,200 RPM
Nlim	1,700 RPM
Min operating temperature, Tmin	−40 °C
Max operating temperature, Tmax	392 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	7.16 Hz
Characteristic outer ring frequency, BPF0	9.09 Hz
Characteristic inner ring frequency, BPFI	11.91 Hz



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Code APE 2815 Z – Code NACE 28.15

Abutment dimensions	
da min	9.3307 "
Da max	13.8976 "
ra max	0.1181 "

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 .