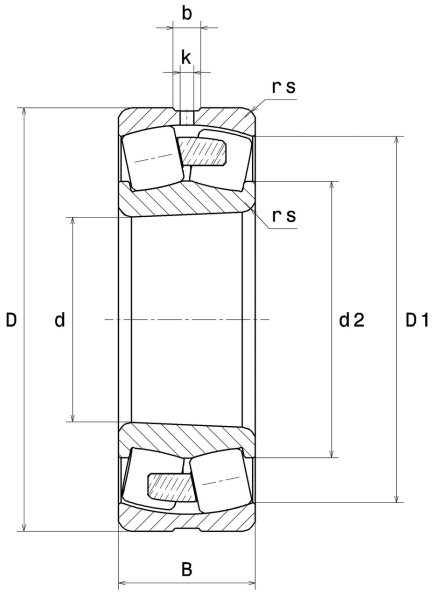
PDF technical sheet
22318EKF800

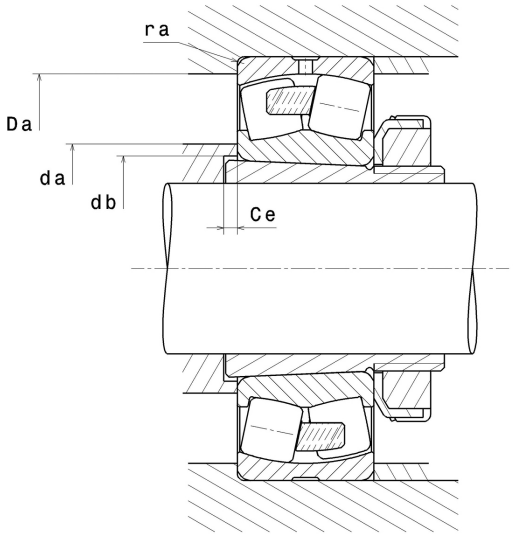
Double row spherical roller bearings

Spherical roller bearing for vibratory applications, one-piece machined cage, groove and lubrication holes on outer ring, tapered bore 1:12, special C4 class clearance

Product definition	
d	3.5433 "
D	7.4803 "
B	2.5197 "
d2	4.3346 "
D1	6.5000 "
rs min	0.1181 "
Number of lubrication holes	3
b	0.4567 "
k	0.1969 "
Associated sleeve reference	H2318
e	0.33
Y1	2.06
Y2	3.07
Y0	2.01
Radial clearance class	C4 Special
Mass	29.56 oz
Brand	SNR



Product performance	
Dynamic load, C	668 kN
Static load, C0	652 kN
Fatigue limit load, Cu	58 kN
Nref	3,000 RPM
Nlim	3,500 RPM
Min operating temperature, Tmin	−40 °C
Max operating temperature, Tmax	392 °C
Characteristic cage frequency, FTF	0.40 Hz
Characteristic rolling element frequency, BSF	4.69 Hz
Characteristic outer ring frequency, BPF0	5.60 Hz
Characteristic inner ring frequency, BPFI	8.40 Hz



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Code APE 2815 Z – Code NACE 28.15

Abutment dimensions	
da min	4.0945 "
db min	3.9370 "
Ce min	0.2756 "
Da max	6.9291 "
ra max	0.0984 "

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 .