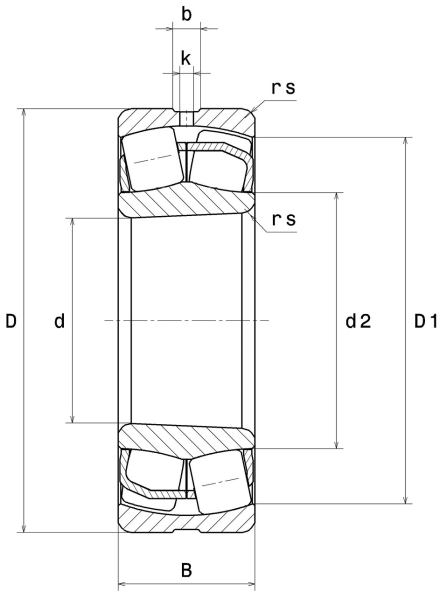
PDF technical sheet
22211EAKW33

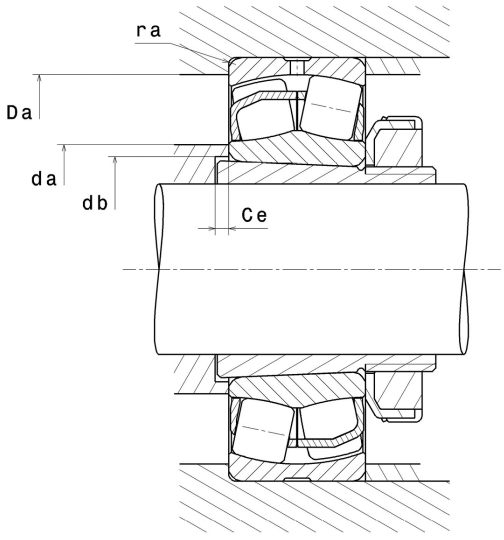
Double row spherical roller bearings

Spherical roller bearing, pressed steel cage, groove and lubrication holes on outer ring, tapered bore 1:12

Product definition	
d	2.1654 "
D	3.9370 "
B	0.9843 "
d2	2.5984 "
D1	3.5315 "
rs min	0.0591 "
Number of lubrication holes	3
b	0.2520 "
k	0.1181 "
Associated sleeve reference	H311
e	0.23
Y1	2.95
Y2	4.39
Y0	2.89
Radial clearance class	CN
Mass	2.70 oz
Brand	SNR



Product performance	
Dynamic load, C	155 kN
Static load, C0	148 kN
Fatigue limit load, Cu	17.90 kN
Nref	6,100 RPM
Nlim	8,200 RPM
Min operating temperature, Tmin	−40 °C
Max operating temperature, Tmax	392 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	6.29 Hz
Characteristic outer ring frequency, BPF0	7.62 Hz
Characteristic inner ring frequency, BPFI	10.38 Hz



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Abutment dimensions	
da min	2.5197 "
Da max	3.5827 "
ra max	0.0591 "

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 .