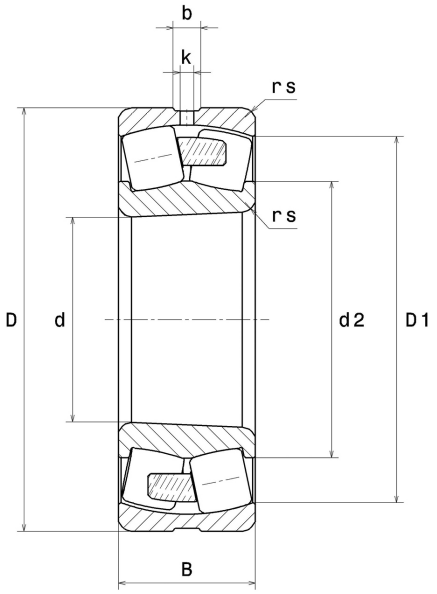
PDF technical sheet
22212EMKW33C3

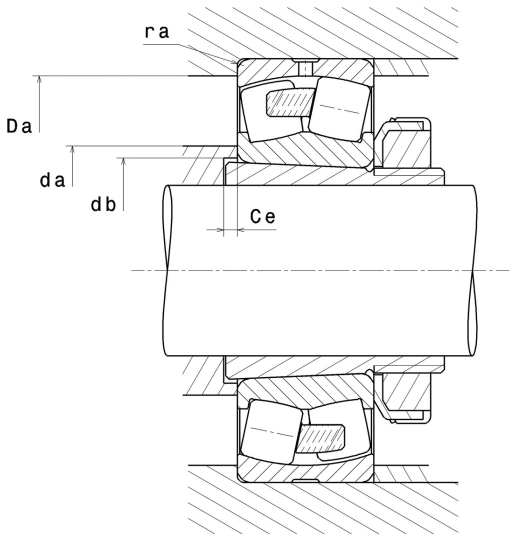
Double row spherical roller bearings

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

Product definition	
d	2.3622 "
D	4.3307 "
B	1.1024 "
D1	3.8780 "
rs min	0.0591 "
Number of lubrication holes	3
b	0.2717 "
k	0.1181 "
Associated sleeve reference	H312
e	0.24
Y1	2.84
Y2	4.23
Y0	2.78
Radial clearance class	C3
Mass	3.95 oz
Brand	SNR



Product performance	
Dynamic load, C	179 kN
Static load, C0	171 kN
Fatigue limit load, Cu	20.80 kN
Nref	5,700 RPM
Nlim	7,500 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	6.17 Hz
Characteristic outer ring frequency, BPF0	7.17 Hz
Characteristic inner ring frequency, BPFI	9.83 Hz



NTN-SNR ROULEMENTS – www.ntn-snr.com
1 rue des Usines – 74010 Annecy Cedex – France – Tel. +33 (0)4 50 65 30 00

Abutment dimensions	
da min	2.7165 "
Da max	3.9764 "
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 .