

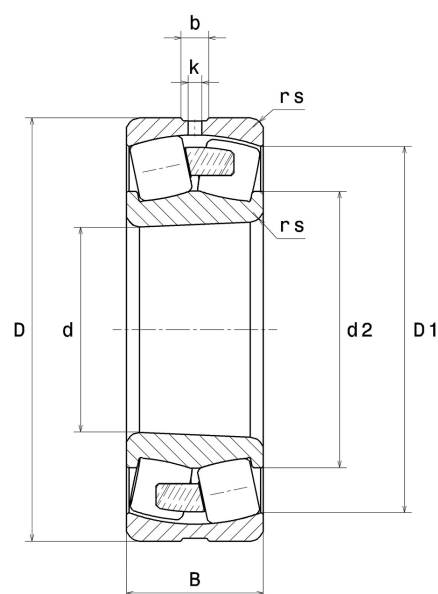
PDF technical sheet 22210EMKW33C3



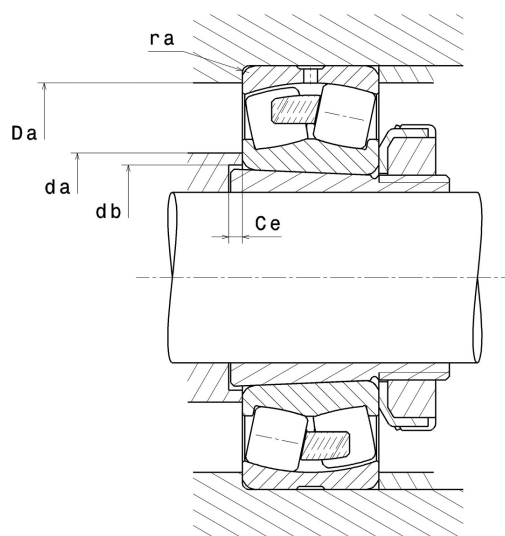
Double row spherical roller bearings

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

Product definition	
d	1.9685 "
D	3.5433 "
B	0.9055 "
D1	3.1772 "
rs min	0.0433 "
Number of lubrication holes	3
b	0.2283 "
k	0.0984 "
Associated sleeve reference	H310
e	0.24
Y1	2.84
Y2	4.23
Y0	2.78
Radial clearance class	C3
Mass	2.08 oz
Brand	SNR



Product performance	
Dynamic load, C	125 kN
Static load, C0	117 kN
Fatigue limit load, Cu	13.70 kN
Nref	6,700 RPM
Nlim	9,100 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	6.34 Hz
Characteristic outer ring frequency, BPF0	7.21 Hz
Characteristic inner ring frequency, BPF1	9.79 Hz



Abutment dimensions

da min	2.2441 "
Da max	3.2677 "
ra max	0.0394 "

Calculation factors

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$F_a / F_r \leq e$		$F_a / F_r > e$	
X	Y	X	Y
1	Y1	0.67	Y2

Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
1	Y0

The values for e, Y1, Y2 and Y0 are shown in the above table .