

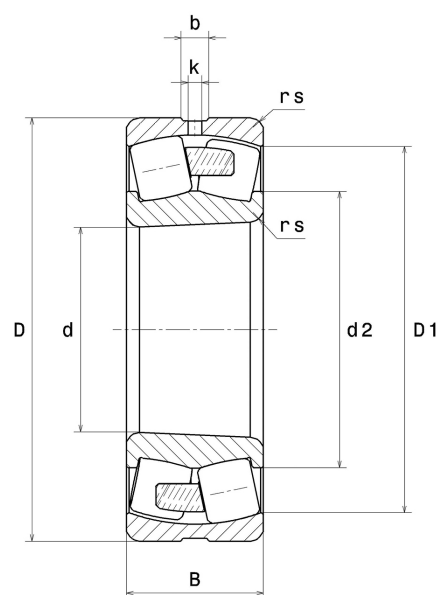
PDF technical sheet 22338EMKW33C3



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	7.4803 "
D	15.7480 "
B	5.1969 "
d2	10.3228 "
D1	13.6063 "
rs min	0.1969 "
Number of lubrication holes	3
b	0.8189 "
k	0.3937 "
Associated sleeve reference	H2338
e	0.32
Y1	2.12
Y2	3.15
Y0	2.07
Radial clearance class	C3
Mass	281.73 oz
Brand	SNR



Product performance	
Dynamic load, C	2,600 kN
Static load, C0	3,120 kN
Fatigue limit load, Cu	209 kN
Nref	1,100 RPM
Nlim	1,600 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	5.62 Hz
Characteristic outer ring frequency, BPF0	7.06 Hz
Characteristic inner ring frequency, BPF1	9.94 Hz



Abutment dimensions

da min	8.2677 "
db min	8.1102 "
Ce min	0.3543 "
Da max	14.9606 "
ra max	0.1575 "

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 .