

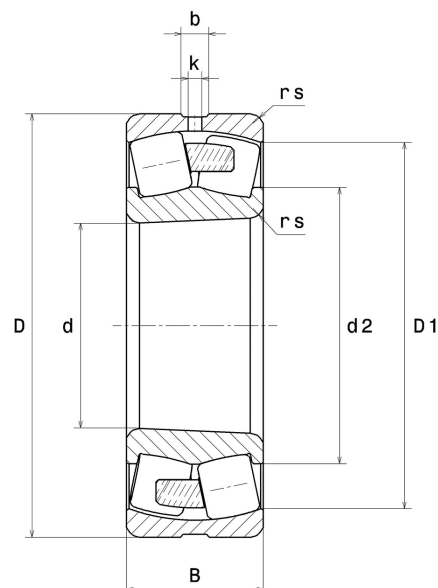
PDF technical sheet 22308EKF800



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	1.5748 "
D	3.5433 "
B	1.2992 "
d2	2.0669 "
D1	3.0315 "
rs min	0.0591 "
Number of lubrication holes	3
b	0.2323 "
k	0.1181 "
Associated sleeve reference	H2308
e	0.36
Y1	1.87
Y2	2.79
Y0	1.83
Radial clearance class	C4 Special
Mass	3.33 oz
Brand	SNR



Product performance	
Dynamic load, C	169 kN
Static load, C0	152 kN
Fatigue limit load, Cu	13.70 kN
Nref	5,800 RPM
Nlim	7,400 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	392 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	4.94 Hz
Characteristic outer ring frequency, BPF0	5.67 Hz
Characteristic inner ring frequency, BPF1	8.33 Hz



Abutment dimensions

da min	1.9291 "
db min	1.7717 "
Ce min	0.1969 "
Da max	3.1890 "
ra max	0.0591 "

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 .