

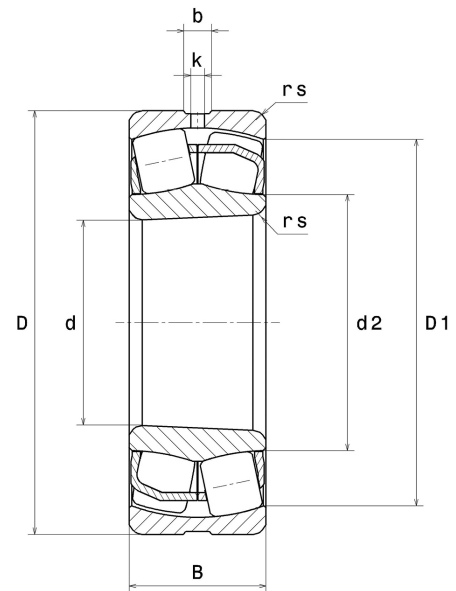
PDF technical sheet 22319EAKW33C3



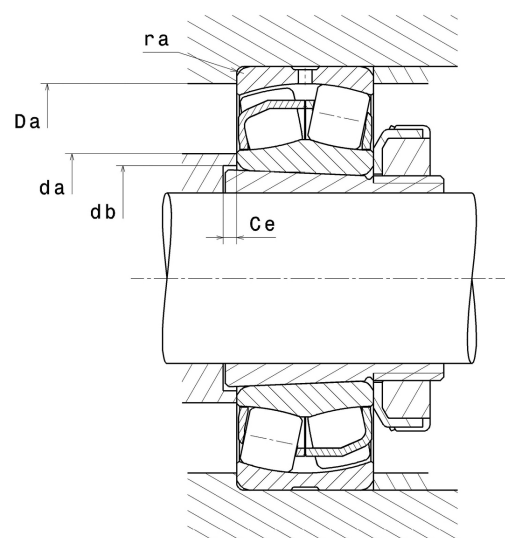
Double row spherical roller bearings

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

Product definition	
d	3.7402 "
D	7.8740 "
B	2.6378 "
d2	4.7244 "
D1	6.8504 "
rs min	0.1181 "
Number of lubrication holes	3
b	0.4764 "
k	0.2362 "
Associated sleeve reference	H2319
e	0.32
Y1	2.09
Y2	3.11
Y0	2.04
Radial clearance class	C3
Mass	33.90 oz
Brand	SNR



Product performance	
Dynamic load, C	732 kN
Static load, C0	750 kN
Fatigue limit load, Cu	62.80 kN
Nref	2,800 RPM
Nlim	3,300 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	5.10 Hz
Characteristic outer ring frequency, BPF0	6.11 Hz
Characteristic inner ring frequency, BPF1	8.89 Hz



Abutment dimensions

da min	4.2913 "
db min	4.1339 "
Ce min	0.2756 "
Da max	7.3228 "
ra max	0.0984 "

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 .