

PDF technical sheet 22211EAS02

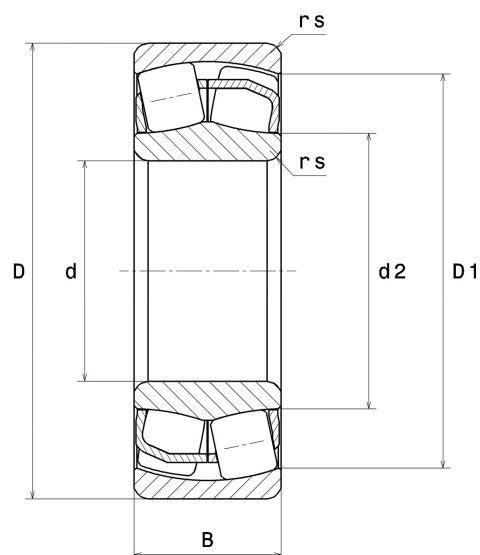


Double row spherical roller bearings

Spherical roller bearing, pressed steel cage

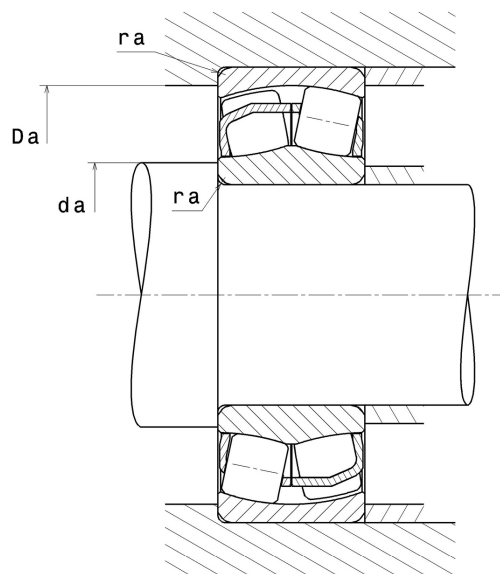
Product definition

d	2.1654 "
D	3.9370 "
B	0.9843 "
d2	2.5984 "
D1	3.5433 "
rs min	0.0591 "
Number of lubrication holes	
e	0.23
Y1	2.95
Y2	4.39
Y0	2.89
Radial clearance class	CN
Mass	2.90 oz
Brand	SNR



Product performance

Dynamic load, C	155 kN
Static load, C0	148 kN
Fatigue limit load, Cu	17.90 kN
Nref	6,100 RPM
Nlim	8,200 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	6.29 Hz
Characteristic outer ring frequency, BPF0	7.62 Hz
Characteristic inner ring frequency, BPF1	10.38 Hz



Abutment dimensions

da min	2.5197 "
Da max	3.5827 "
ra max	0.0591 "

Calculation factors

Equivalent dynamic radial load

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

Fa / Fr ≤ e		Fa / Fr > 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 .