

PDF technical sheet

22312EAC3

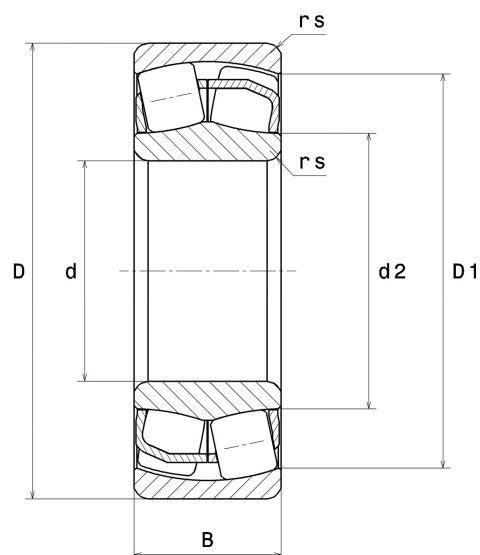


Double row spherical roller bearings

Spherical roller bearing, pressed steel cage

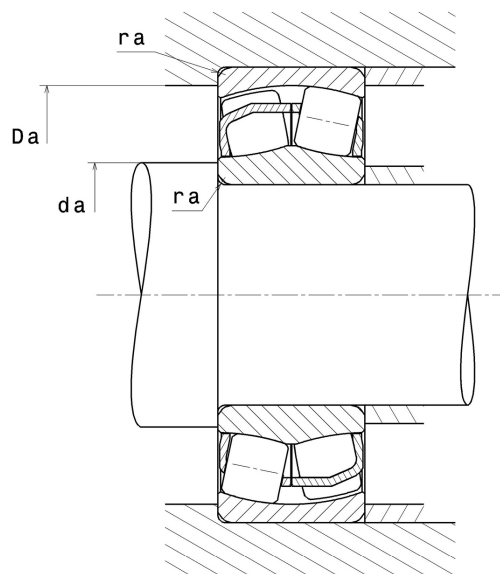
Product definition

d	2.3622 "
D	5.1181 "
B	1.8110 "
d2	2.9646 "
D1	4.4055 "
rs min	0.0827 "
Number of lubrication holes	
e	0.35
Y1	1.95
Y2	2.9
Y0	1.91
Radial clearance class	C3
Mass	10.16 oz
Brand	SNR



Product performance

Dynamic load, C	340 kN
Static load, C0	319 kN
Fatigue limit load, Cu	29.60 kN
Nref	4,300 RPM
Nlim	5,100 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	392 °C
Characteristic cage frequency, FTF	0.40 Hz
Characteristic rolling element frequency, BSF	4.77 Hz
Characteristic outer ring frequency, BPF0	5.63 Hz
Characteristic inner ring frequency, BPF1	8.38 Hz



Abutment dimensions

da min	2.8346 "
Da max	4.6457 "
ra max	0.0787 "

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 .