

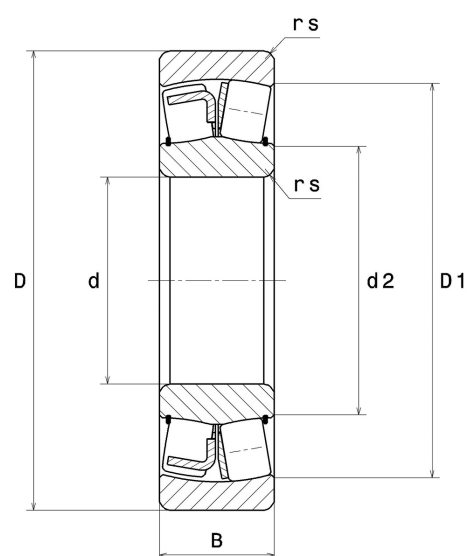
PDF technical sheet 21315VC3



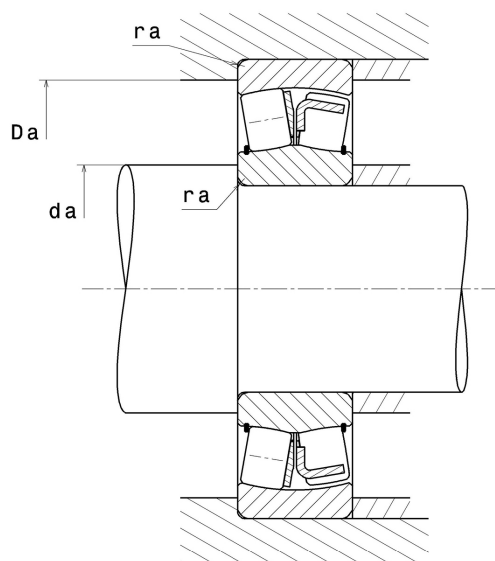
Double row spherical roller bearings

Spherical roller bearing, pressed steel cage

Product definition	
d	2.9528 "
D	6.2992 "
B	1.4567 "
d2	3.8465 "
D1	5.3543 "
rs min	0.0827 "
Number of lubrication holes	
e	0.23
Y1	2.93
Y2	4.37
Y0	2.87
Radial clearance class	C3
Mass	12.66 oz
Brand	SNR



Product performance	
Dynamic load, C	295 kN
Static load, C0	274 kN
Fatigue limit load, Cu	35.20 kN
Nref	4,000 RPM
Nlim	5,200 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	5.79 Hz
Characteristic outer ring frequency, BPF0	6.26 Hz
Characteristic inner ring frequency, BPF1	8.75 Hz



Abutment dimensions

da min	3.4252 "
Da max	5.8268 "
ra max	0.0787 "

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 .