

PDF technical sheet

22315EM

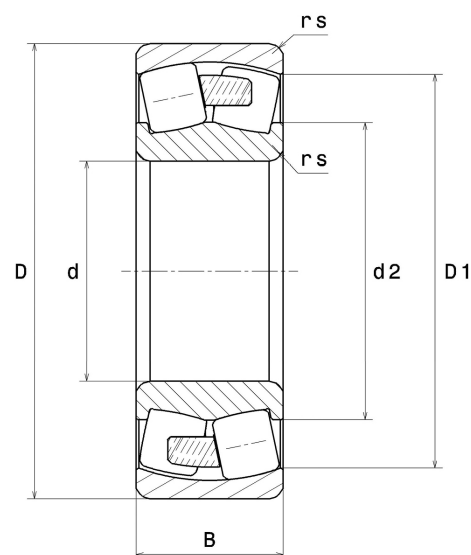


Double row spherical roller bearings

Spherical roller bearing, one-piece machined cage

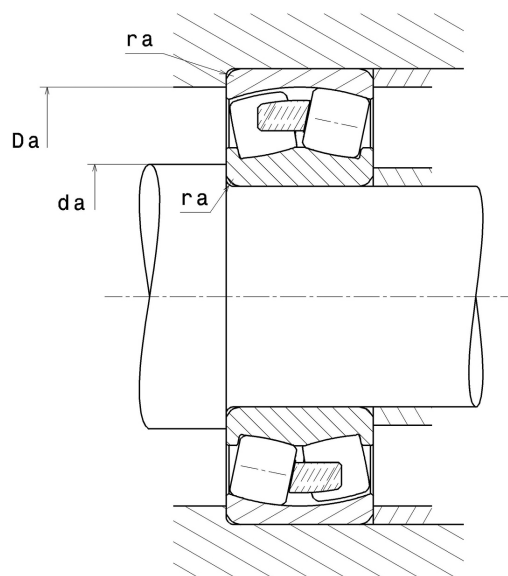
Product definition

d	2.9528 "
D	6.2992 "
B	2.1654 "
d2	3.6181 "
D1	5.4449 "
rs min	0.0827 "
Number of lubrication holes	
e	0.34
Y1	2
Y2	2.98
Y0	1.96
Radial clearance class	CN
Mass	19.51 oz
Brand	SNR



Product performance

Dynamic load, C	491 kN
Static load, C0	467 kN
Fatigue limit load, Cu	43.30 kN
Nref	3,600 RPM
Nlim	4,200 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	4.65 Hz
Characteristic outer ring frequency, BPF0	5.59 Hz
Characteristic inner ring frequency, BPF1	8.41 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 .