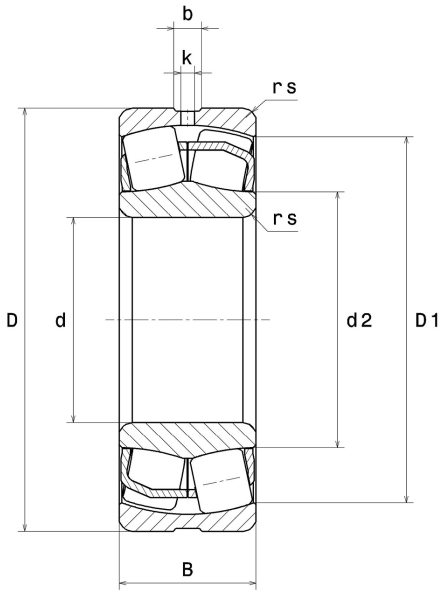
PDF technical sheet
24122EAW33

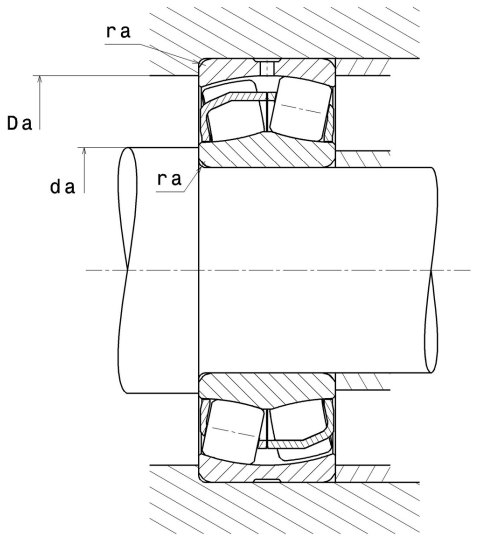
Double row spherical roller bearings

Spherical roller bearing, pressed steel cage, groove and lubrication holes on outer ring

Product definition	
d	4.3307 "
D	7.0866 "
B	2.7165 "
d2	4.7913 "
D1	6.1890 "
rs min	0.0787 "
Number of lubrication holes	3
b	0.3307 "
k	0.1575 "
e	0.36
Y1	1.9
Y2	2.83
Y0	1.86
Radial clearance class	CN
Mass	23.56 oz
Brand	SNR



Product performance	
Dynamic load, C	622 kN
Static load, C0	769 kN
Fatigue limit load, Cu	52.40 kN
Nref	2,200 RPM
Nlim	2,900 RPM
Min operating temperature, Tmin	−40 °C
Max operating temperature, Tmax	392 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	7.17 Hz
Characteristic outer ring frequency, BPF0	8.67 Hz
Characteristic inner ring frequency, BPFI	11.33 Hz



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Abutment dimensions	
da min	4.7638 "
Da max	6.6535 "
ra max	0.0787 "

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$Fa / Fr \leq e$		$Fa / Fr > e$	
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 .