

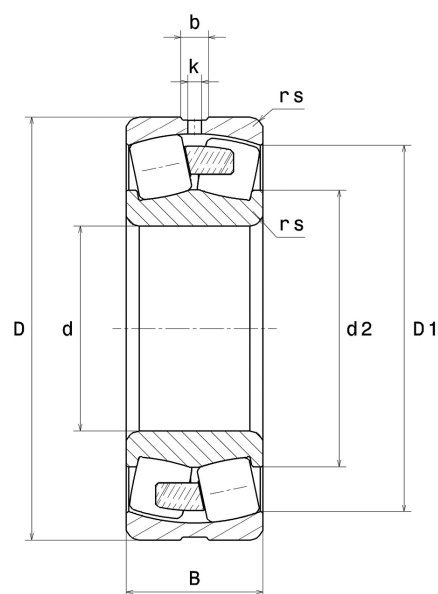
PDF technical sheet 24152EMW33



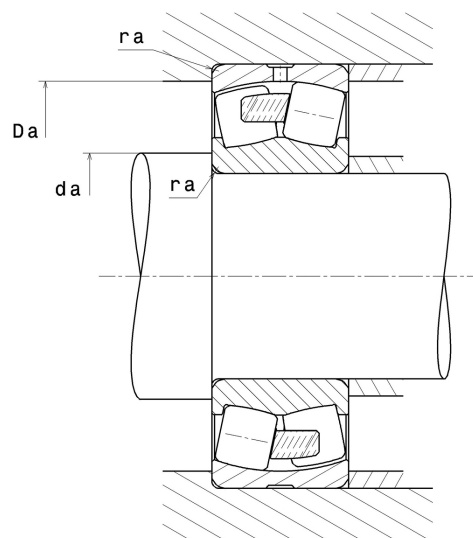
Double row spherical roller bearings

Spherical roller bearing, one-piece machined cage, groove and lubrication holes on outer ring

Product definition	
d	10.2362 "
D	17.3228 "
B	7.0866 "
d2	11.8937 "
D1	15.0630 "
rs min	0.1575 "
Number of lubrication holes	8
b	1.1311 "
k	0.6299 "
e	0.39
Y1	1.72
Y2	2.56
Y0	1.68
Radial clearance class	CN
Mass	391.75 oz
Brand	SNR



Product performance	
Dynamic load, C	3,690 kN
Static load, C0	5,230 kN
Fatigue limit load, Cu	253 kN
Nref	640 RPM
Nlim	1,200 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	6.73 Hz
Characteristic outer ring frequency, BPF0	8.59 Hz
Characteristic inner ring frequency, BPF1	11.41 Hz



Abutment dimensions

da min	10.9055 "
Da max	16.6535 "
ra max	0.1181 "

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 .