



Technical datasheet

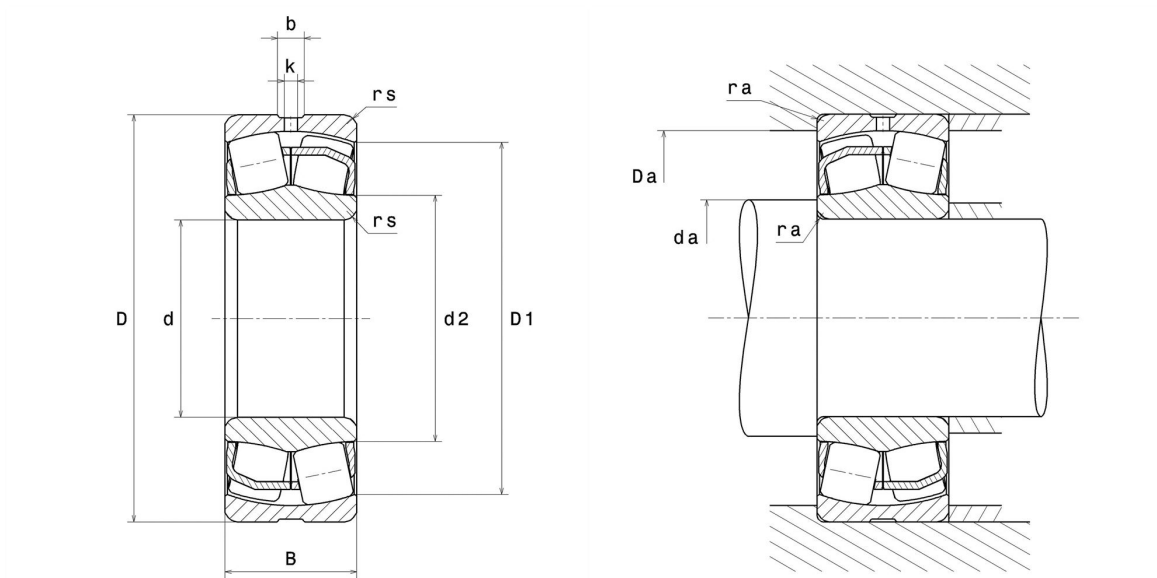
22211.EAW33

Double row spherical roller bearings

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

ULTAGE

Visual(s)



Product definition

d	55 mm
D	100 mm
B	25 mm
d2	66 mm
D1	89.7 mm
rs min	1.5 mm
Number of lubrication holes	3
b	6.4 mm
k	3 mm
e	0.23
Y1	2.95
Y2	4.39
Y0	2.89
Radial clearance class	CN
Mass	0.82 kg
Brand	SNR

Product performance

Dynamic load, C	155 kN
Static load, C0	148 kN
Fatigue limit load, Cu	17.9 kN
Nref	6,100 rpm
Nlim	8,200 rpm
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	6.29 Hz
Characteristic outer ring frequency, BPF0	7.62 Hz
Characteristic inner ring frequency, BPFI	10.38 Hz

Abutment dimensions

da min	64 mm
Da max	91 mm
ra max	1.5 mm

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 .