Technical data

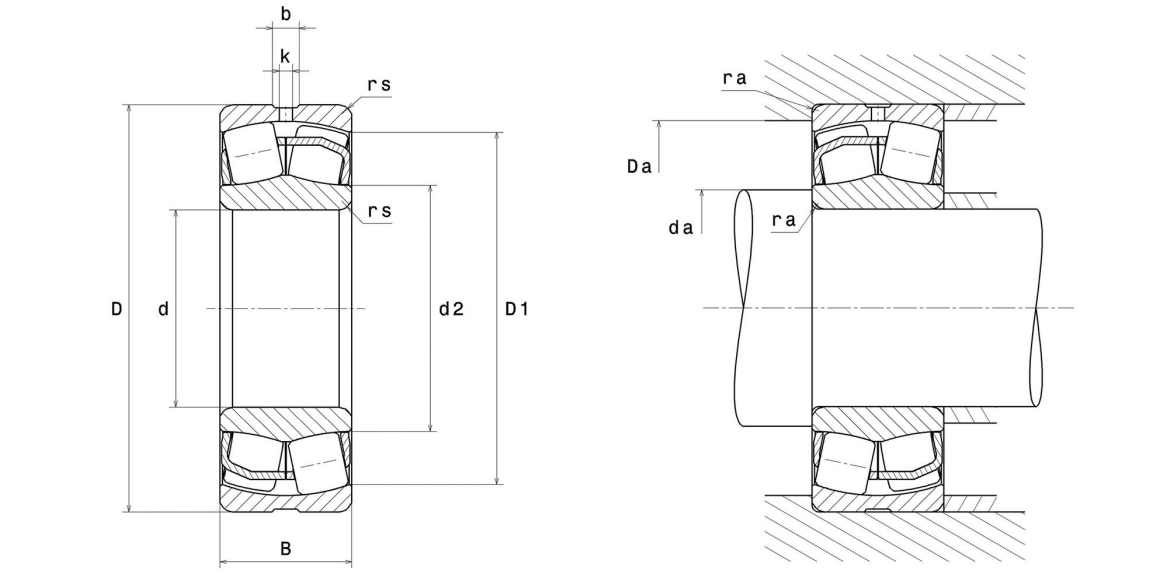
24022EAW33

Double row spherical roller bearings

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

ULTAGE

Visual(s)



Product definition

d	110 mm
D	170 mm
B	60 mm
d2	120.5 mm
D1	151.6 mm
rs min	2 mm
Number of lubrication holes	3
b	7.2 mm
k	3 mm
Associated sleeve reference	P0
e	0.31
Y1	2.15
Y2	3.2
Y0	2.1
Radial clearance class	CN
Mass	4.8 kg
Brand	SNR

Product performance

Dynamic load, C	518 kN
Static load, C0	663 kN
Fatigue limit load, Cu	46.7 kN
Nref	2,800 Tr/min
Nlim	3,700 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	8.04 Hz
Characteristic outer ring frequency, BPF0	9.68 Hz
Characteristic inner ring frequency, BPFI	12.32 Hz

Abutment dimensions

da min	118.8 mm
da max	2 mm
Da max	161.2 mm
ra max	2 mm

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 .