Technical data

10X22211EAW33EEL

Double row spherical roller bearings

ULTAGE

Product definition

d	55 mm
D	100 mm
B	31 mm
d2	63.4 mm
D1	93.9 mm
rs min	1.5 mm
Number of lubrication holes	3
b	6.4 mm
k	3 mm
Associated sleeve reference	P0
e	0.23
Y1	2.95
Y2	4.4
Y0	2.89
Radial clearance class	CN
Mass	0.96 kg
Brand	SNR

Product performance

Dynamic load, C	155 kN
Static load, C0	148 kN
Fatigue limit load, Cu	18 kN
Nref	155 Tr/min
Nlim	1,700 Tr/min
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	120 °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	63.4 mm
da max	63.4 mm
db min	63.4 mm
Da max	93.9 mm
ra max	1.5 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 .