Technical data

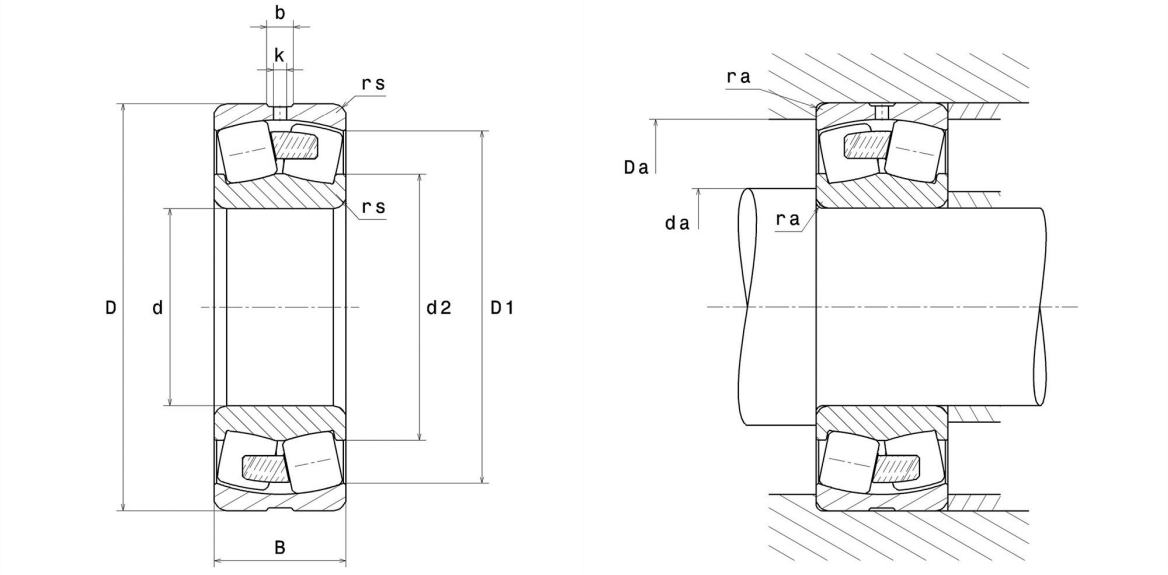
23120.EMW33

Double row spherical roller bearings

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

ULTAGE

Visual(s)



Product definition

d	100 mm
D	165 mm
B	52 mm
D1	146.9 mm
rs min	2 mm
Number of lubrication holes	3
b	8.4 mm
k	4 mm
Associated sleeve reference	P0
e	0.28
Y1	2.39
Y2	3.56
Y0	2.34
Radial clearance class	CN
Mass	5 kg
Brand	SNR

Product performance

Dynamic load, C	471 kN
Static load, C0	575 kN
Fatigue limit load, Cu	46.3 kN
Nref	3,200 Tr/min
Nlim	3,900 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	7.57 Hz
Characteristic outer ring frequency, BPF0	9.6 Hz
Characteristic inner ring frequency, BPFI	12.41 Hz

Abutment dimensions

da min	111 mm
da max	2 mm
Da max	154 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 .