Technical data

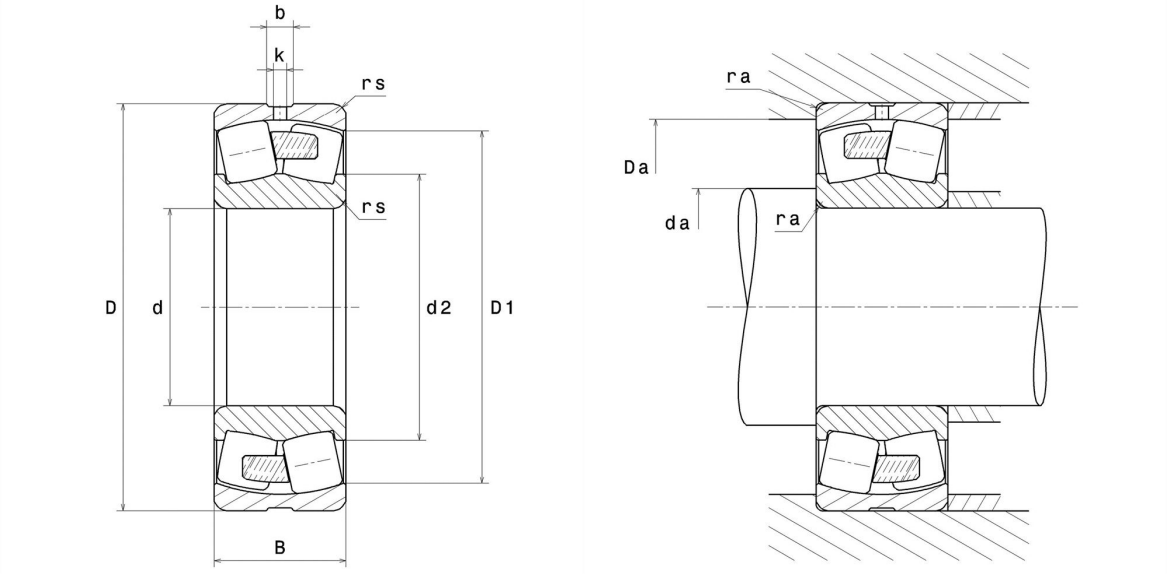
24048.EMW33C3

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	240 mm
D	360 mm
B	118 mm
D1	323 mm
rs min	3 mm
Number of lubrication holes	3
b	15.3 mm
k	7 mm
Associated sleeve reference	P0
e	0.29
Y1	2.32
Y2	3.45
Y0	2.26
Radial clearance class	C3
Mass	41.6 kg
Brand	SNR

Product performance

Dynamic load, C	2,020 kN
Static load, C0	3,050 kN
Fatigue limit load, Cu	172 kN
Nref	1,100 Tr/min
Nlim	1,700 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	8.8 Hz
Characteristic outer ring frequency, BPF0	11.12 Hz
Characteristic inner ring frequency, BPFI	13.88 Hz

Abutment dimensions

da min	252.4 mm
da max	2.5 mm
Da max	347.6 mm
ra max	2.5 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 .