Technical data

22309EMW33C4

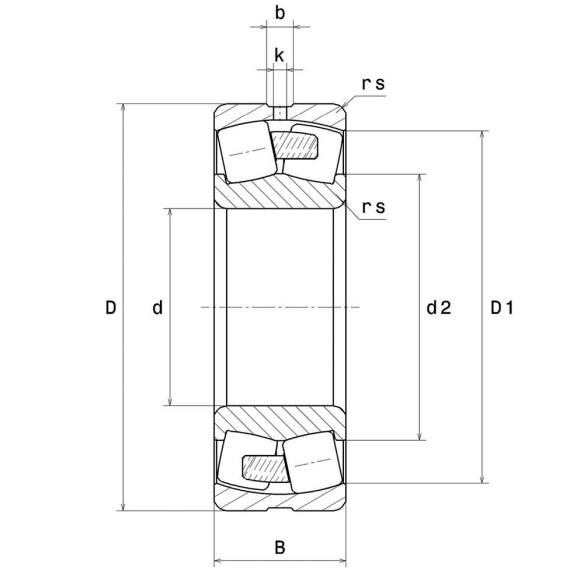
Double row spherical roller bearings

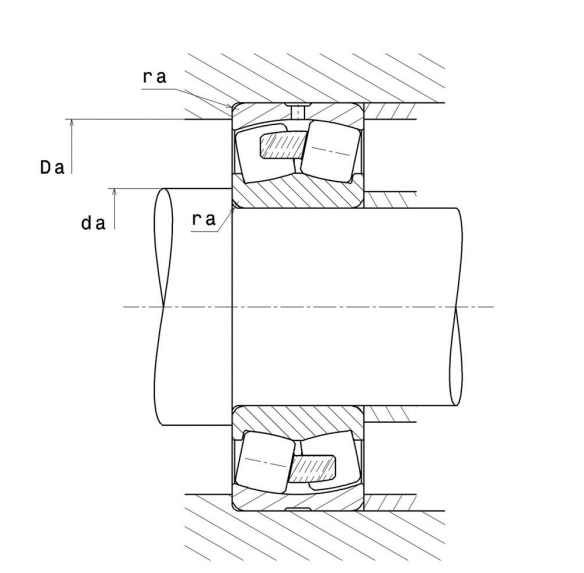


Spherical roller bearing, one-piece machined cage, groove and lubrication holes on outer ring

ULTAGE

Visual(s)





Product definition

d	45 mm
D	100 mm
B	36 mm
d2	58 mm
D1	85.8 mm
rs min	1.5 mm
Number of lubrication holes	3
b	6.4 mm
k	3 mm
Associated sleeve reference	P0
e	0.36
Y1	1.9
Y2	2.83
Y0	1.86
Radial clearance class	C4
Mass	1.37 kg
Brand	SNR

Product performance

Dynamic load, C	206 kN
Static load, C0	187 kN
Fatigue limit load, Cu	17.2 kN
Nref	5,300 Tr/min
Nlim	6,700 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.4 Hz
Characteristic rolling element frequency, BSF	4.85 Hz
Characteristic outer ring frequency, BPF0	5.65 Hz
Characteristic inner ring frequency, BPFI	8.35 Hz

Abutment dimensions

da min	54 mm
da max	1.5 mm
Da max	91 mm
ra max	1.5 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

Fa / Fr ≤ 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 .