Technical data

23136.EMW33C3

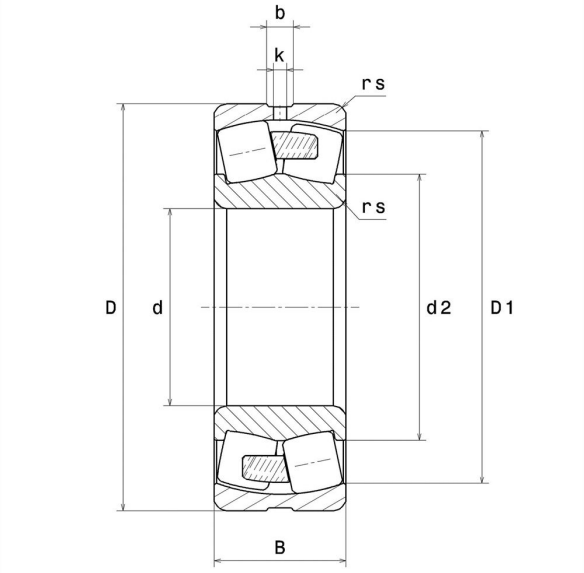
Double row spherical roller bearings

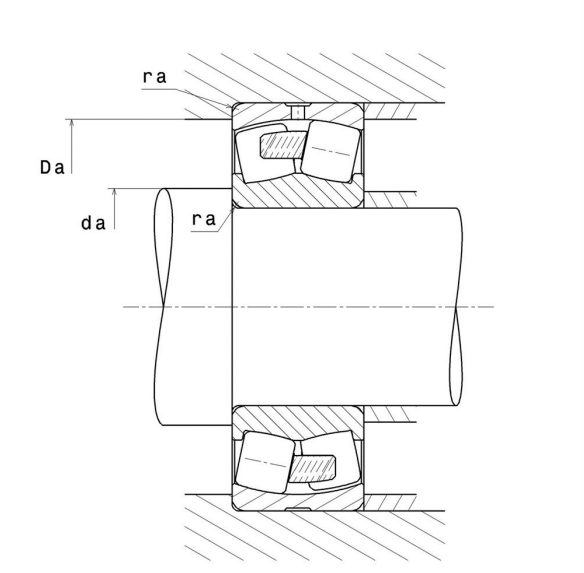


Spherical roller bearing, one-piece machined cage, groove and lubrication holes on outer ring

ULTAGE

Visual(s)





Product definition

d	180 mm
D	300 mm
B	96 mm
D1	266.8 mm
rs min	3 mm
Number of lubrication holes	3
b	14.9 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	27.21 kg
Brand	SNR

Product performance

Dynamic load, C	1,490 kN
Static load, C0	1,960 kN
Fatigue limit load, Cu	128 kN
Nref	1,600 Tr/min
Nlim	2,100 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	7.26 Hz
Characteristic outer ring frequency, BPF0	9.1 Hz
Characteristic inner ring frequency, BPFI	11.9 Hz

Abutment dimensions

da min	194 mm
da max	2.5 mm
Da max	286 mm
ra max	2.5 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 .