Technical data

23044.EMW33C3

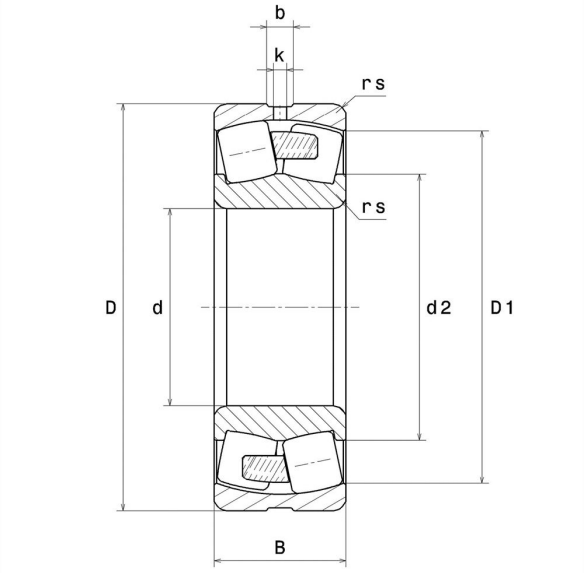
Double row spherical roller bearings

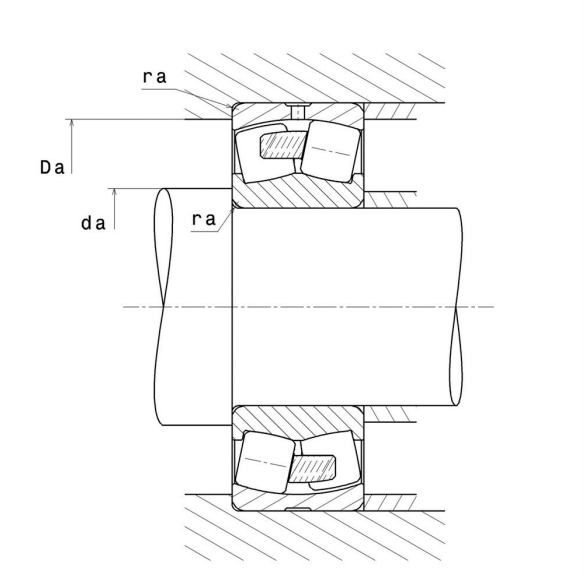


Spherical roller bearing, one-piece machined cage, groove and lubrication holes on outer ring

ULTAGE

Visual(s)





Product definition

d	220 mm
D	340 mm
B	90 mm
D1	310 mm
rs min	3 mm
Number of lubrication holes	3
b	15.4 mm
k	7 mm
Associated sleeve reference	P0
e	0.23
Y1	2.95
Y2	4.4
Y0	2.89
Radial clearance class	C3
Mass	31.8 kg
Brand	SNR

Product performance

Dynamic load, C	1,530 kN
Static load, C0	2,110 kN
Fatigue limit load, Cu	157 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	0.44 Hz
Characteristic rolling element frequency, BSF	8.45 Hz
Characteristic outer ring frequency, BPF0	10.62 Hz
Characteristic inner ring frequency, BPFI	13.38 Hz

Abutment dimensions

da min	232.4 mm
da max	2.5 mm
Da max	327.6 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 .