Technical data

22228.EMW33C3

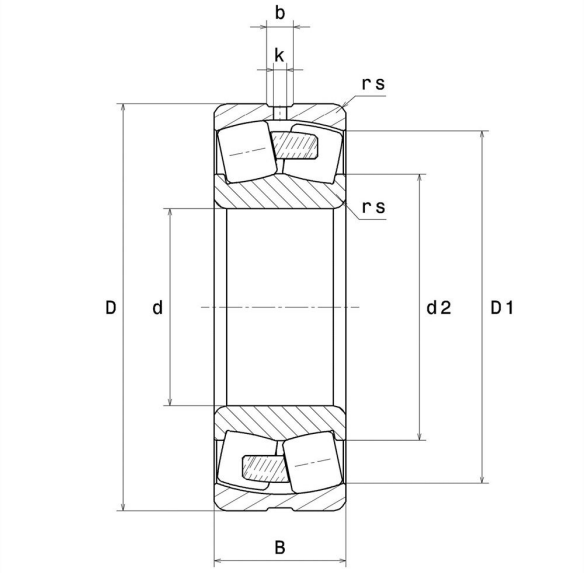
Double row spherical roller bearings

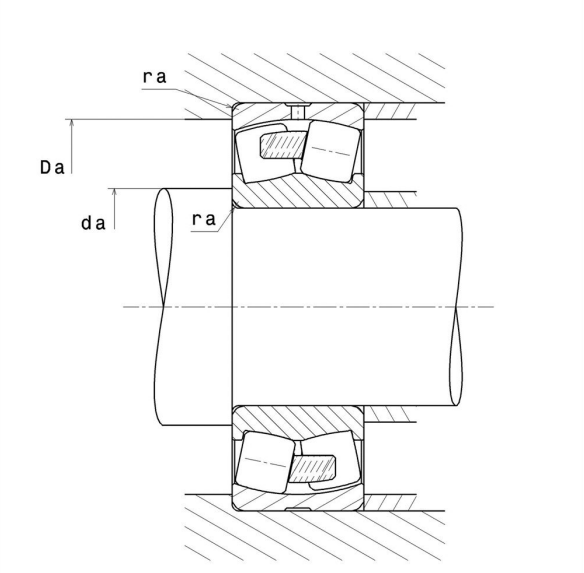


Spherical roller bearing, one-piece machined cage, groove and lubrication holes on outer ring

ULTAGE

Visual(s)





Product definition

d	140 mm
D	250 mm
B	68 mm
D1	223.9 mm
rs min	3 mm
Number of lubrication holes	3
b	14.2 mm
k	7 mm
Associated sleeve reference	P0
e	0.25
Y1	2.74
Y2	4.08
Y0	2.68
Radial clearance class	C3
Mass	14.4 kg
Brand	SNR

Product performance

Dynamic load, C	867 kN
Static load, C0	1,010 kN
Fatigue limit load, Cu	100 kN
Nref	2,500 Tr/min
Nlim	3,300 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	6.14 Hz
Characteristic outer ring frequency, BPF0	7.59 Hz
Characteristic inner ring frequency, BPFI	10.41 Hz

Abutment dimensions

da min	154 mm
da max	2.5 mm
Da max	236 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

$Po = Xo.Fr + Yo.Fa$

X_0	Y_0
1	Y0

The values for e, Y1, Y2 and Y0 are shown in the above table .