Technical data

22324.EMC3

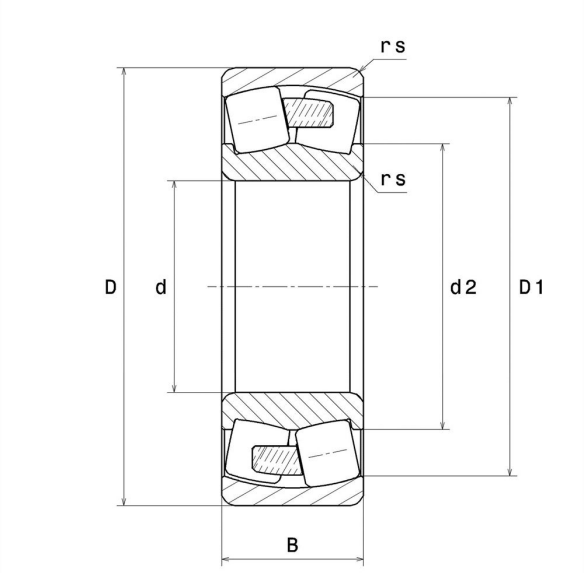
Double row spherical roller bearings

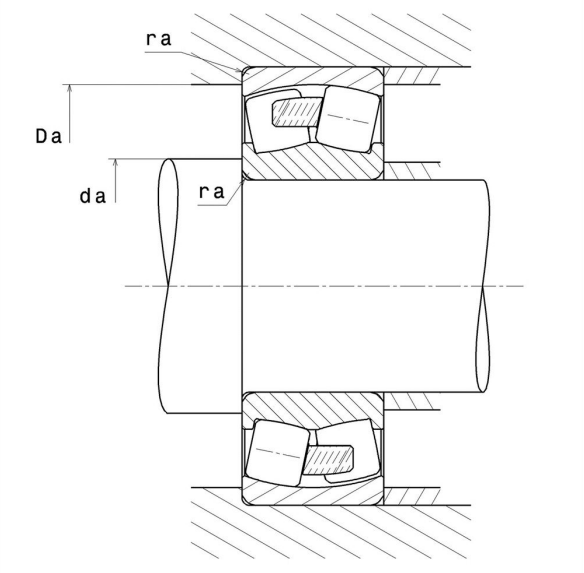
Spherical roller bearing, one-piece machined cage

ULTAGE



Visual(s)





Product definition

d	120 mm
D	260 mm
B	86 mm
d2	156.9 mm
D1	224 mm
rs min	3 mm
Number of lubrication holes	0
b	2 mm
k	0 mm
Associated sleeve reference	P0
e	0.32
Y1	2.09
Y2	3.11
Y0	2.04
Radial clearance class	C3
Mass	22.75 kg
Brand	SNR

Product performance

Dynamic load, C	1,170 kN
Static load, C0	1,280 kN
Fatigue limit load, Cu	96.2 kN
Nref	2,000 Tr/min
Nlim	2,500 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	5.33 Hz
Characteristic outer ring frequency, BPF0	6.58 Hz
Characteristic inner ring frequency, BPFI	9.42 Hz

Abutment dimensions

da min	134 mm
da max	2.5 mm
Da max	246 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 .