Technical data

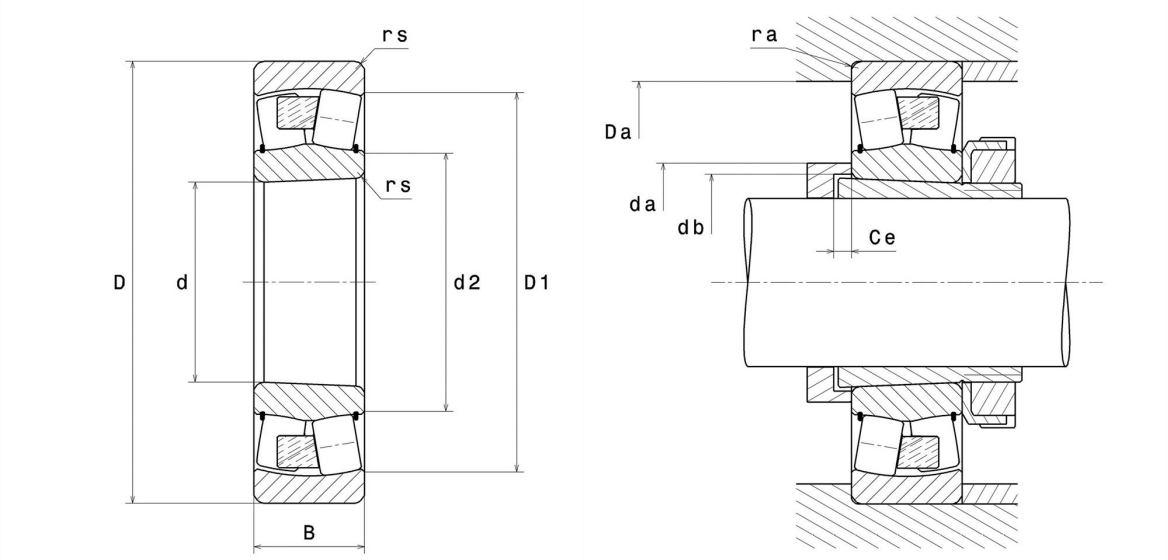
21317.VMK

Double row spherical roller bearings

Spherical roller bearing, one-piece machined cage, tapered bore 1:12

ULTAGE

Visual(s)



Product definition

d	85 mm
D	180 mm
B	41 mm
D1	153.1 mm
rs min	3 mm
Number of lubrication holes	0
b	2 mm
k	0 mm
Associated sleeve reference	H317
e	0.23
Y1	2.99
Y2	4.46
Y0	2.93
Radial clearance class	CN
Mass	5.16 kg
Brand	SNR

Product performance

Dynamic load, C	14.2 kN
Static load, C0	365 kN
Fatigue limit load, Cu	44.7 kN
Nref	3,600 Tr/min
Nlim	4,600 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	5.95 Hz
Characteristic outer ring frequency, BPF0	6.7 Hz
Characteristic inner ring frequency, BPFI	9.3 Hz

Abutment dimensions

da min	99 mm
da max	2.5 mm
db min	91 mm
Ce min	7 mm
Da max	166 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 .