Technical data

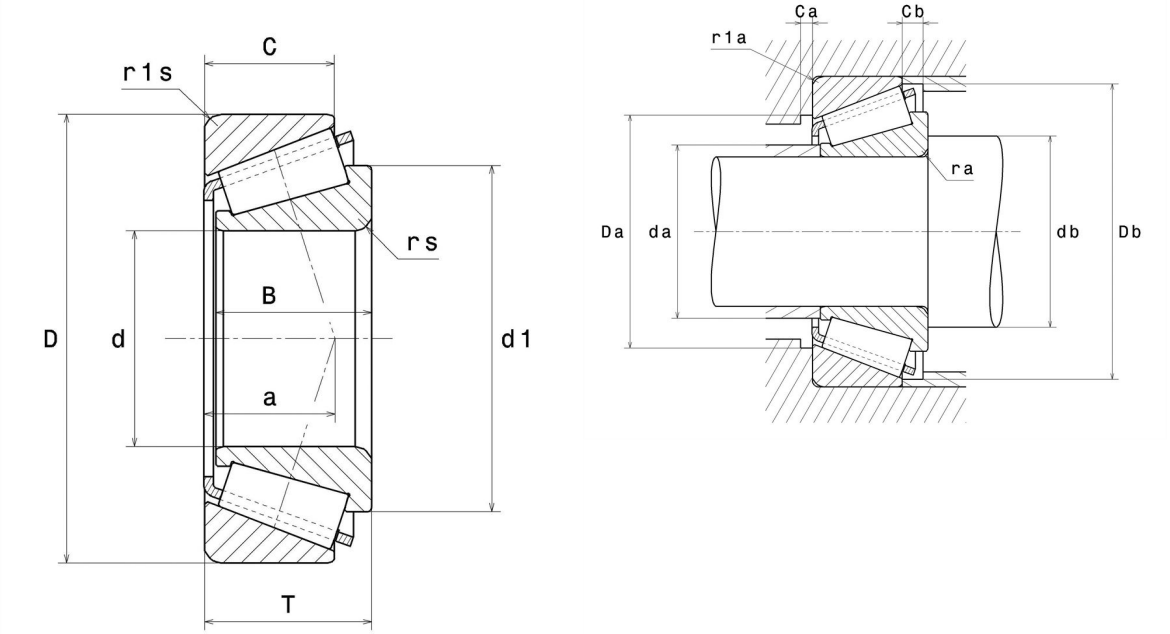
33013.A

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)



Product definition

d	65 mm
D	100 mm
B	27 mm
C	21 mm
T	27 mm
d1	82.7 mm
a	21 mm
rs min	1.5 mm
r1s min	1.5 mm
e	0.35
Y2	1.72
Y0	0.95
Mass	0.74 kg
ISO 355 reference	T2CE065
Brand	SNR

Product performance

Dynamic load, C	101 kN
Rating life coefficient, A2	1
Static load, C0	164 kN
Fatigue limit load, Cu	20 kN
Nref	4,300 Tr/min
Nlim	6,800 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	10.69 Hz
Characteristic outer ring frequency, BPF0	12.66 Hz
Characteristic inner ring frequency, BPFI	15.34 Hz

Abutment dimensions

da max	72 mm
db min	73.5 mm
Da min	89 mm
Da max	91.5 mm
Db min	96 mm
Ca min	5 mm
Cb min	6 mm
ra max	1.5 mm
r1a max	1.5 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$Fa / Fr \leq e$		$Fa / Fr > e$	
X	Y	X	Y
1	0	0.4	Y2

Equivalent static radial load

$Po = Xo.Fr + Yo.Fa$

X_0	Y_0
0.5	Y0

If $Po < Fr$, then use $Po = Fr$

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