Technical data

32011.A

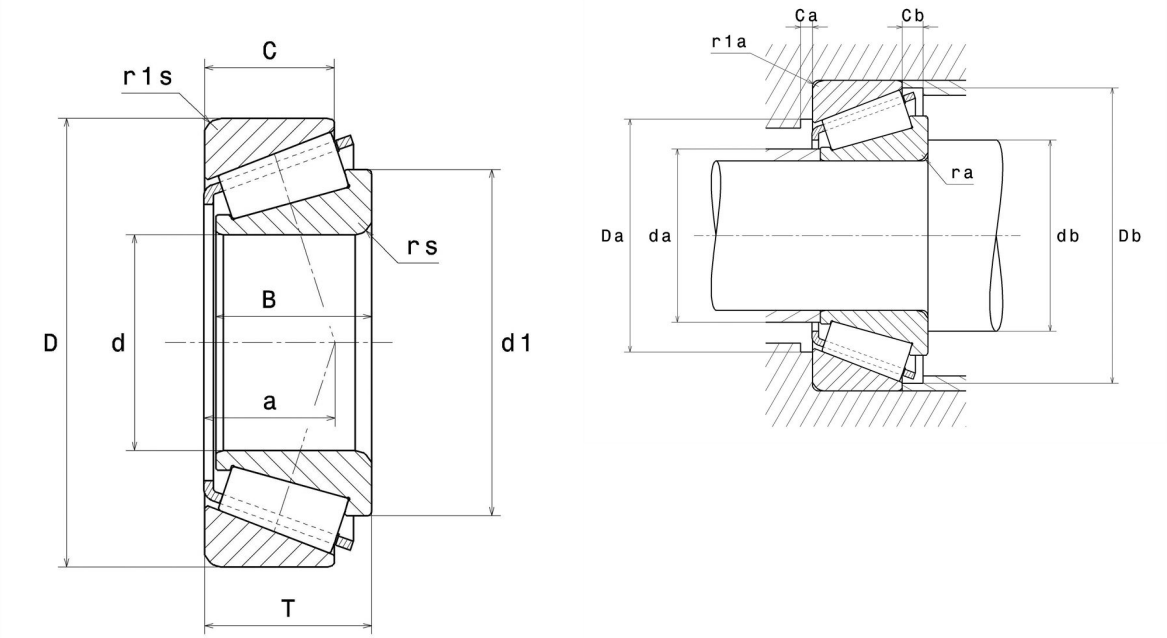
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

ULTAGE



Visual(s)



Product definition

d	55 mm
D	90 mm
B	23 mm
C	17.5 mm
T	23 mm
d1	73.3 mm
a	19.8 mm
rs min	1.5 mm
r1s min	1.5 mm
e	0.41
Y2	1.48
Y0	0.81
Mass	0.55 kg
ISO 355 reference	T3CC055
Brand	SNR

Product performance

Dynamic load, C	15.21 kN
Rating life coefficient, A2	1
Static load, C0	117 kN
Fatigue limit load, Cu	14.3 kN
Nref	4,700 Tr/min
Nlim	7,700 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	8.94 Hz
Characteristic outer ring frequency, BPF0	11.16 Hz
Characteristic inner ring frequency, BPFI	13.84 Hz

Abutment dimensions

da max	63 mm
db min	63.5 mm
Da min	81 mm
Da max	81.5 mm
Db min	86 mm
Ca min	4 mm
Cb min	5.5 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