Technical data

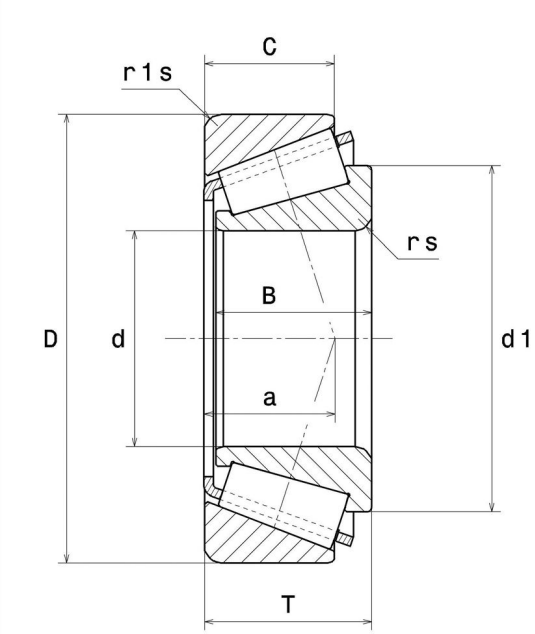
30303.A

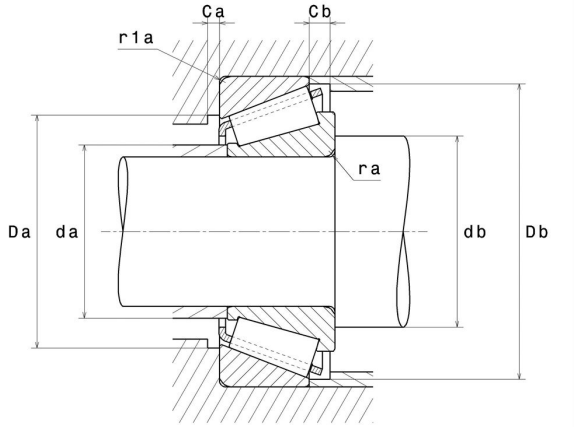
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	17 mm
D	47 mm
B	14 mm
C	12 mm
T	15.25 mm
d1	31.2 mm
a	10.4 mm
rs min	1 mm
r1s min	1 mm
e	0.29
Y2	2.11
Y0	1.16
Mass	0.13 kg
ISO 355 reference	T2FB017
Brand	SNR

Product performance

Dynamic load, C	29.7 kN
Rating life coefficient, A2	1
Static load, C0	27.3 kN
Fatigue limit load, Cu	3.35 kN
Nref	11,000 Tr/min
Nlim	17,000 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.39 Hz
Characteristic rolling element frequency, BSF	4.13 Hz
Characteristic outer ring frequency, BPF0	4.65 Hz
Characteristic inner ring frequency, BPFI	7.35 Hz

Abutment dimensions

da max	24 mm
db min	22.5 mm
Da min	40 mm
Da max	41.5 mm
Db min	42 mm
Ca min	3 mm
Cb min	3.5 mm
ra max	1 mm
r1a max	1 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