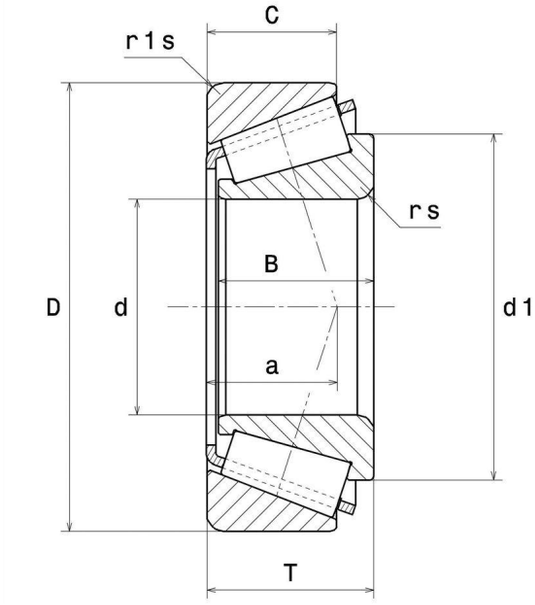
Technical data

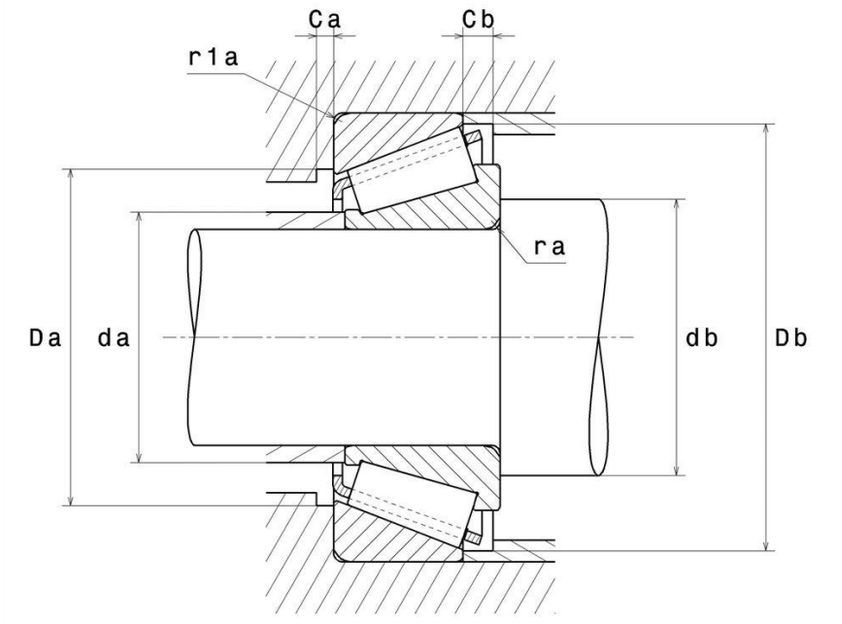
32016A

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

VISUAL (S)





PRODUCT DEFINITION	
Brand	SNR
d - Internal diameter	80 mm
D - External diameter	125 mm
B - Bearing/Inner ring width	29 mm
C - Outer ring width	22 mm
T - Total width	29 mm
d1 - External diameter inner ring	102,6 mm
a - Charge load application point	26,8 mm
rs - Min fillet radius	1,5 mm
r1s - Min fillet radius	1,5 mm
Mass	1,273 kg
ISO 355 reference	T3CC080

PRODUCT PERFORMANCE	
C - Dynamic load	141 kN
A2 - Rating life coefficient	1
C0 - Static load	220 kN
Cu - Fatigue limit load	26,6 kN
e - Coefficient	0.42
Y0 - Static axial load coefficient	0.78
Y2 - Upper axial load coefficient	1.42
Nref - Reference thermal speed	3400 tr/min
Nlim - Mechanical Limit Speed	5400 tr/min
Tmin - Min operating temperature	-40 °C

PRODUCT PERFORMANCE	
Tmax - Max operating temperature	120 °C

BEARING FREQUENCIES	
BPFO - Characteristic outer ring frequency (60 rpm)	12.118 Hz
BPFI - Characteristic inner ring frequency (60 rpm)	14.882 Hz
FTF - Characteristic cage frequency (60 rpm)	0.449 Hz
BSF - Characteristic rolling element frequency (60 rpm)	9.302 Hz

ABUTMENT	
da max - Max shoulder diameter IR	89 mm
db min - Min IR shoulder diameter	87 mm
Da min - Min shoulder diameter OR	112 mm
Da max - Max shoulder diameter OR	117 mm
Db min - Min OR shoulder diameter	120 mm
Ca - Min clearance	6 mm
Cb - Min clearance	7 mm
ra max - Max fillet radius	1,5 mm
r1a - Max fillet radius	1,5 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

P = X.Fr + Y.Fa

Fa / Fr ≤ 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