Deep groove ball bearing, radial contact, pressed steel cage, contact seals on both sides

VISUAL (S)

NTN Europe
1 rue des Usines · BP 2017 · 74010 Annecy Cedex · France · Tel. +33 (0)4 50 65 30 00
S.A. au capital de 322 639 919 € · RCS ANNECY B 325 821 072 · Id. Fiscale : FR 48 325 821 072
SIRET 325 821 072 00015 · Code APE 2815 Z · Code NACE 28.15

Page 1/3
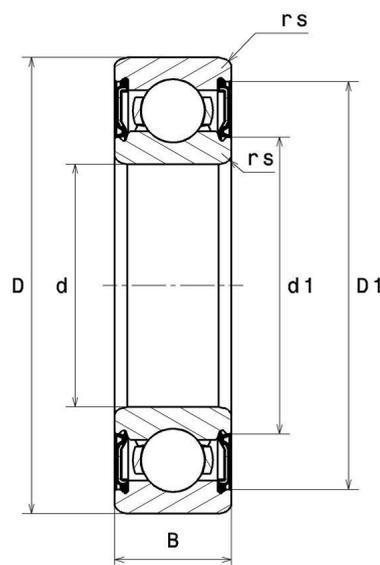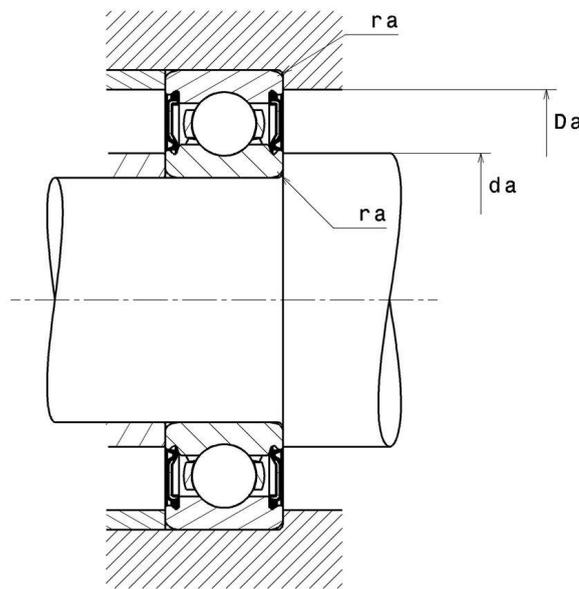
6016LLUCM/5K
Single row deep groove ball bearings

PRODUCT DEFINITION	
Brand	NTN
d - Internal diameter	80 mm
D - External diameter	125 mm
B - Bearing/Inner ring width	22 mm
rs - Min fillet radius	1,1 mm
Radial clearance class	CM
Mass	0,845 kg

PRODUCT PERFORMANCE	
C - Dynamic load	53000000 mN
C0 - Static load	40000000 mN
Cu - Fatigue limit load	2910000 mN
f0 - Coefficient	15.6
N lim - Grease lubrication limit speed	18600 °/s
Tmin - Min operating temperature	248,15 °K
Tmax - Max operating temperature	383,15 °K

ABUTMENT	
da min - Min shoulder diameter IR	86,5 mm
da max - Max shoulder diameter IR	91,5 mm
Da max - Max shoulder diameter OR	118,5 mm
ra max - Max shaft & housing fillet radius	1 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$\dfrac{f_0 F_a}{C_0}$	e	$Fa / Fr \le e$		$Fa / Fr > e$	
		X	Y	X	Y
0.172	0.19				2.3
0.345	0.22				1.99
0.689	0.26				1.71
1.03	0.28				1.55
1.38	0.3	1	0	0.56	1.45
2.07	0.34				1.31
3.45	0.38				1.15
5.17	0.42				1.04
6.89	0.44				1

Equivalent static radial load

$Po = Xo.Fr + Yo.Fa$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

If Po <Fr, then use Po = Fr