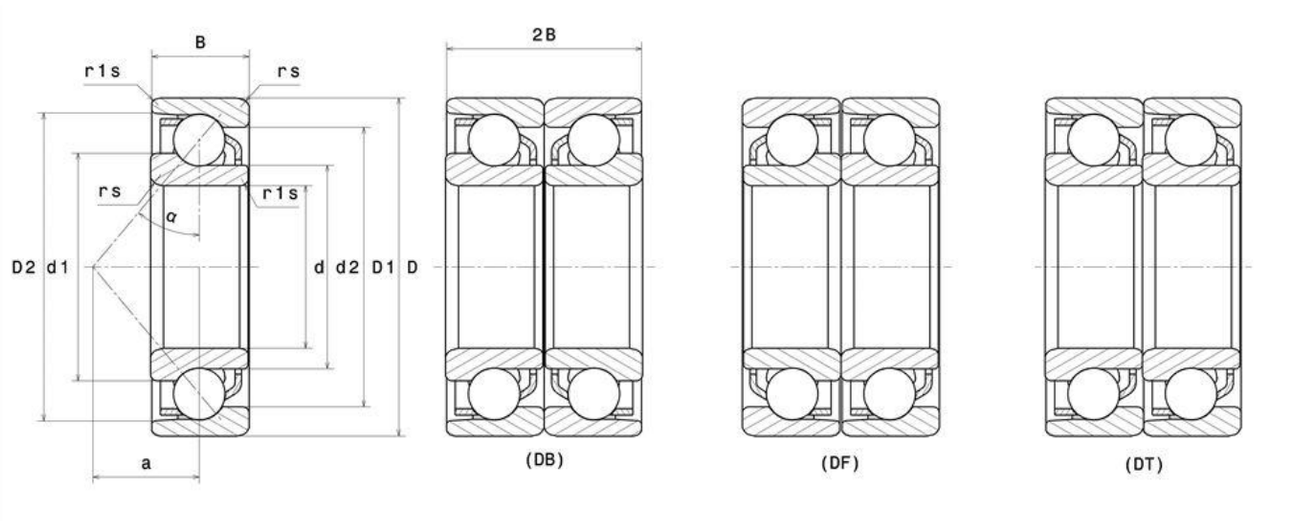
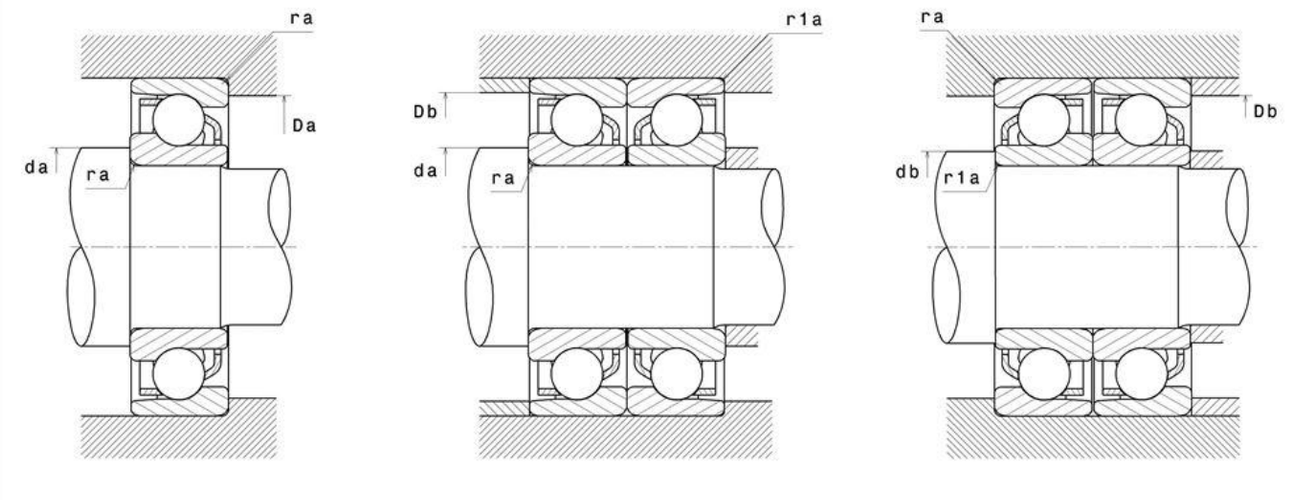
Technical data

7228BG

Single row or matched pairs of angular contact ball bearings

VISUAL (S)





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S.A. au capital de 322 639 919 € · RCS ANNECY B 325 821 072 · Id. Fiscale : FR 48 325 821 072
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PRODUCT DEFINITION	
Brand	NTN
d - Internal diameter	140 mm
D - External diameter	250 mm
B - Bearing/Inner ring width	42 mm
a - Charge load application point	103 mm
- Contact angle	40 °
rs - Min fillet radius	3 mm
r1s - Min fillet radius	1,1 mm
Radial clearance class	CN
Mass	8,78 kg

PRODUCT PERFORMANCE	
C - Dynamic load	203000000 mN
C0 - Static load	195000000 mN
Cu - Fatigue limit load	10100000 mN
N lim - Oil lubrication limit speed	18600 °/s
N lim - Grease lubrication limit speed	13800 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT	
da min - Min shoulder diameter IR	154 mm
Da max - Max shoulder diameter OR	236 mm
Db max - Max OR shoulder diameter	243 mm
r1a - Max fillet radius	1 mm

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ABUTMENT

ra max - Max shaft & housing fillet radius	2,5 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

P = X.Fr + Y.Fa

	e	Single or DT bearing arrangement				DB or DF arrangement			
		Fa / Fr ≤ e		Fa / Fr > e		Fa / Fr ≤ e		Fa / Fr > e	
		X	Y	X	Y	X	Y	X	Y
30°	0.8	1	0	0.9	0.76	1	0.78	0.63	1.24
40°	1.14			0.35	0.57		0.55	0.57	0.93

Equivalent static radial load

Po = Xo.Fr + Yo.Fa

a	Single or DT bearing arrangement		DB or DF arrangement	
	X_0	Y_0	X_0	Y_0
30°	0.5	0.33	1	0.66
40°		0.26		0.52

For single or DT bearing arrangement :

If P_0 <Fr, then use P_0 = Fr