



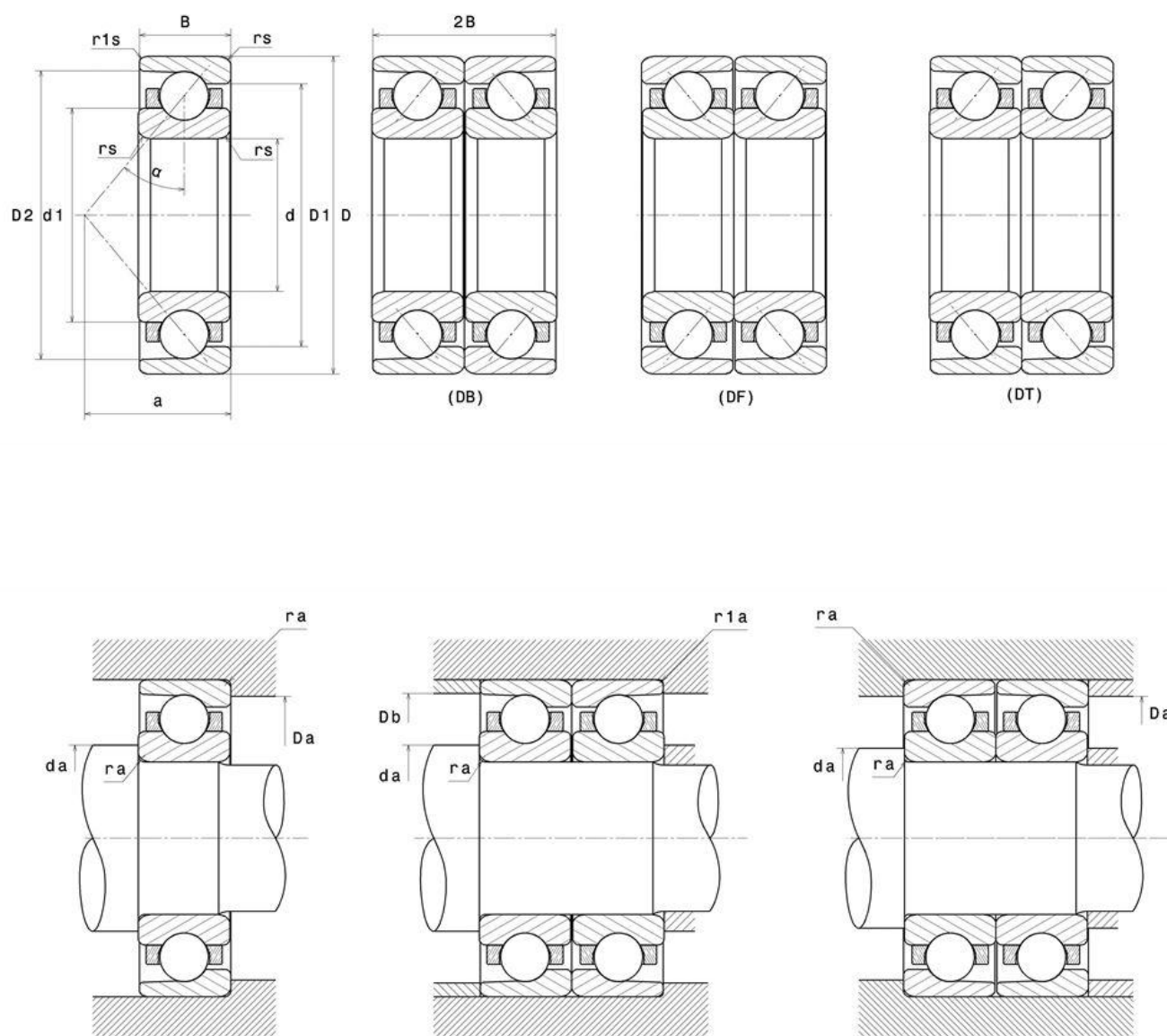
Technical data

7412BG

Single row or matched pairs of angular contact ball bearings

Angular contact ball bearing, brass cage inner ring guided

VISUAL (S)



7412BG

Single row or matched pairs of angular contact ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	60 mm
D - External diameter	150 mm
B - Bearing/Inner ring width	35 mm
- Contact angle	40 °
rs - Min fillet radius	2,1 mm
r1s - Min fillet radius	1,1 mm
Radial clearance class	CN
Mass	3,27 kg

PRODUCT PERFORMANCE

C - Dynamic load	110000000 mN
C0 - Static load	76500000 mN
Cu - Fatigue limit load	3400000 mN
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	336 mm
Da max - Max shoulder diameter OR	138 mm
Db max - Max OR shoulder diameter	143 mm
r1a - Max fillet radius	1 mm
ra max - Max shaft & housing fillet radius	2 mm



NTN Europe

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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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INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$P = X.F_r + Y.F_a$

	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

$P_0 = X_0.F_r + Y_0.F_a$

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 $P_0 < F_r$, then use $P_0 = F_r$