

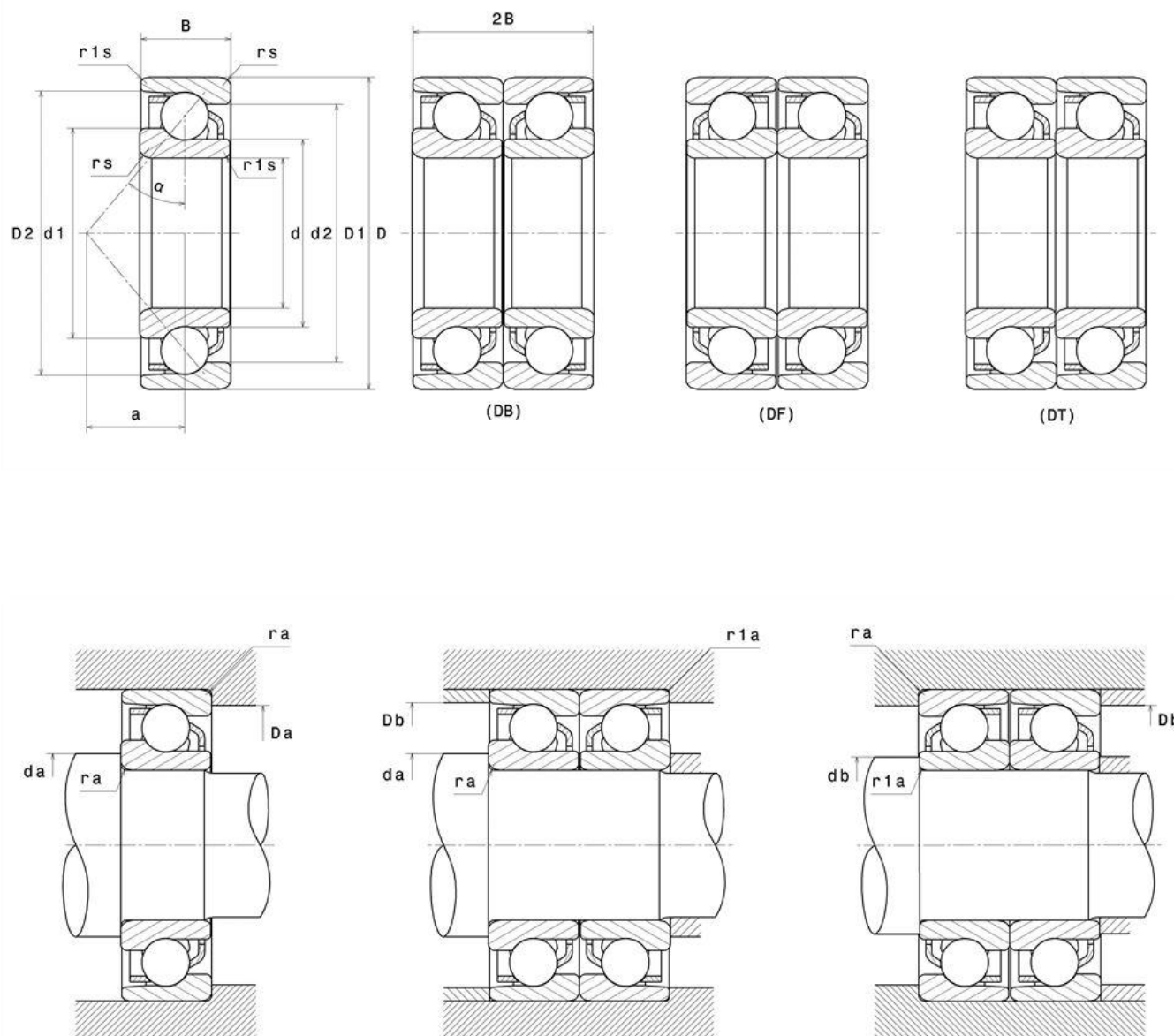


Technical data

7224BG

Single row or matched pairs of angular contact ball bearings

VISUAL (S)



7224BG

Single row or matched pairs of angular contact ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	120 mm
D - External diameter	215 mm
B - Bearing/Inner ring width	40 mm
a - Charge load application point	90,5 mm
- Contact angle	40 °
rs - Min fillet radius	2,1 mm
r1s - Min fillet radius	1,1 mm
Radial clearance class	CN
Mass	6,21 kg

PRODUCT PERFORMANCE

C - Dynamic load	183000000 mN
C0 - Static load	162000000 mN
Cu - Fatigue limit load	9400000 mN
N lim - Oil lubrication limit speed	22200 °/s
N lim - Grease lubrication limit speed	16800 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	132 mm
Da max - Max shoulder diameter OR	203 mm
Db max - Max OR shoulder diameter	208 mm
r1a - Max fillet radius	1 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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ABUTMENT	
ra max - Max shaft & housing fillet radius	2 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	
	Xo	Yo	Xo	Yo
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 $P_0 = Fr$