



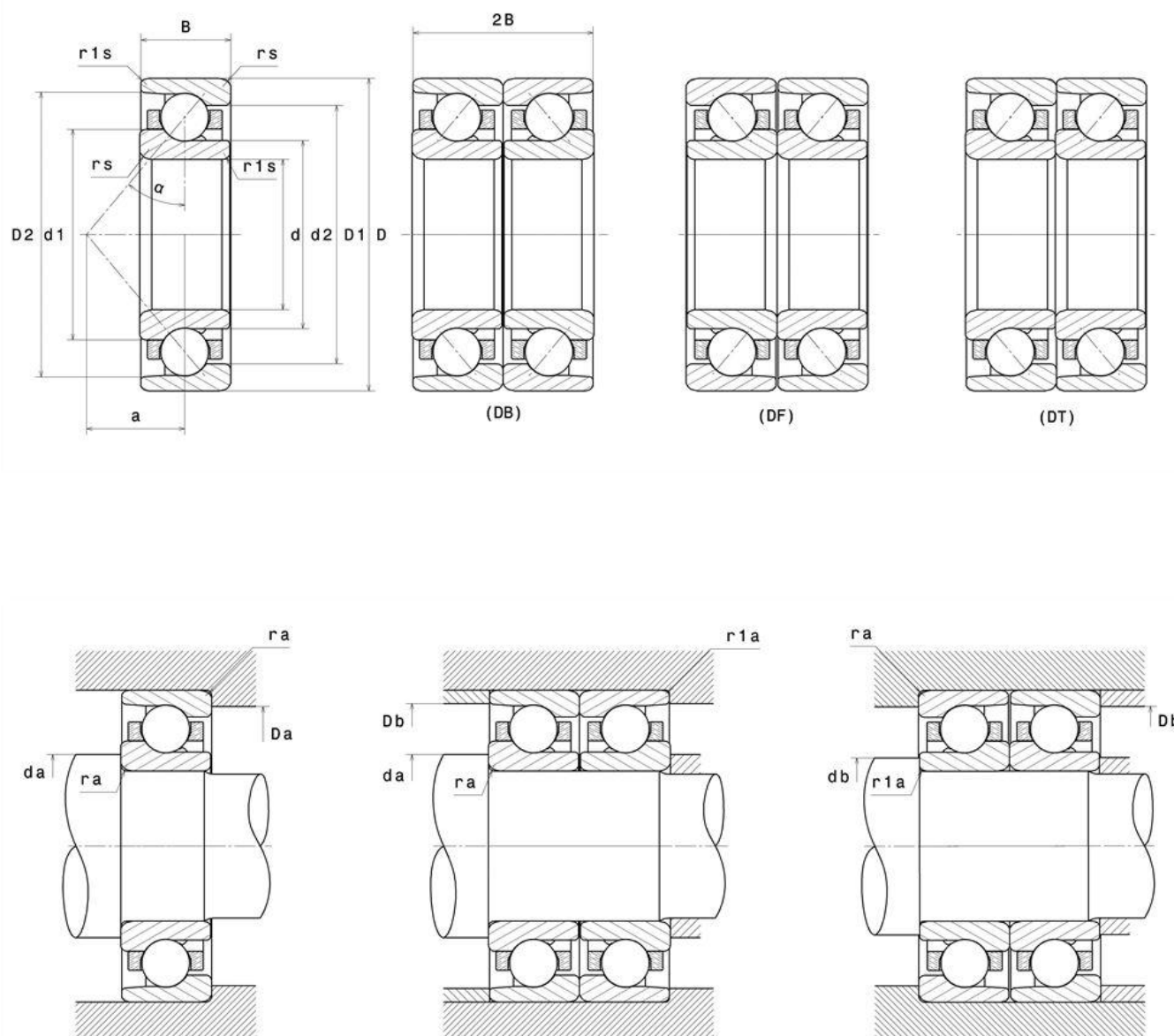
Technical data

7324B

Single row or matched pairs of angular contact ball bearings

Angular contact ball bearing, brass cage inner ring guided

VISUAL (S)



7324B

Single row or matched pairs of angular contact ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	120 mm
D - External diameter	260 mm
B - Bearing/Inner ring width	55 mm
a - Charge load application point	107 mm
- Contact angle	40 °
rs - Min fillet radius	3 mm
r1s - Min fillet radius	1,1 mm
Radial clearance class	CN
Mass	14,7 kg

PRODUCT PERFORMANCE

C - Dynamic load	249000000 mN
C0 - Static load	231000000 mN
Cu - Fatigue limit load	13100000 mN
N lim - Oil lubrication limit speed	19800 °/s
N lim - Grease lubrication limit speed	15000 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	134 mm
db min - Min IR shoulder diameter	246 mm
Da max - Max shoulder diameter OR	246 mm
Db max - Max OR shoulder diameter	253 mm



NTN Europe

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ABUTMENT

r1a - Max fillet radius	1 mm
ra max - Max shaft & housing fillet radius	2,5 mm

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 $P_0 = F_r$



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