



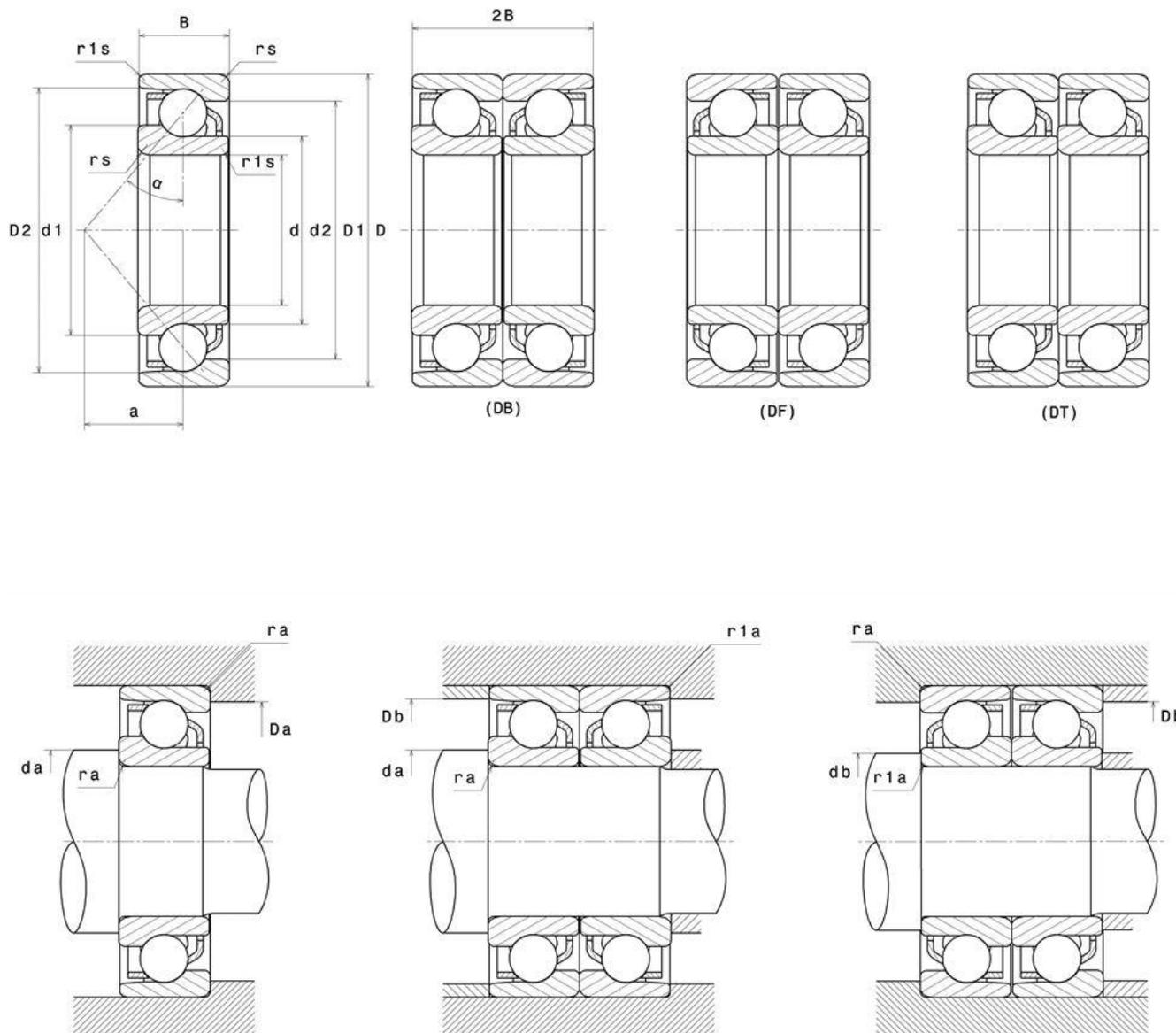
Technical data

7208B

Single row or matched pairs of angular contact ball bearings

Angular contact ball bearings, pressed steel cage

VISUAL (S)



7208B

Single row or matched pairs of angular contact ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	40 mm
D - External diameter	80 mm
B - Bearing/Inner ring width	18 mm
a - Charge load application point	34 mm
- Contact angle	40 °
rs - Min fillet radius	1,1 mm
r1s - Min fillet radius	0,6 mm
Radial clearance class	CN
Mass	0,375 kg

PRODUCT PERFORMANCE

C - Dynamic load	35500000 mN
C0 - Static load	23000000 mN
Cu - Fatigue limit load	1800000 mN
N lim - Oil lubrication limit speed	66000 °/s
N lim - Grease lubrication limit speed	49800 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	47 mm
db min - Min IR shoulder diameter	44,5 mm
Da max - Max shoulder diameter OR	73 mm
Db max - Max OR shoulder diameter	75,5 mm



NTN Europe

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ABUTMENT

r1a - Max fillet radius	0,6 mm
ra max - Max shaft & housing fillet radius	1 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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