



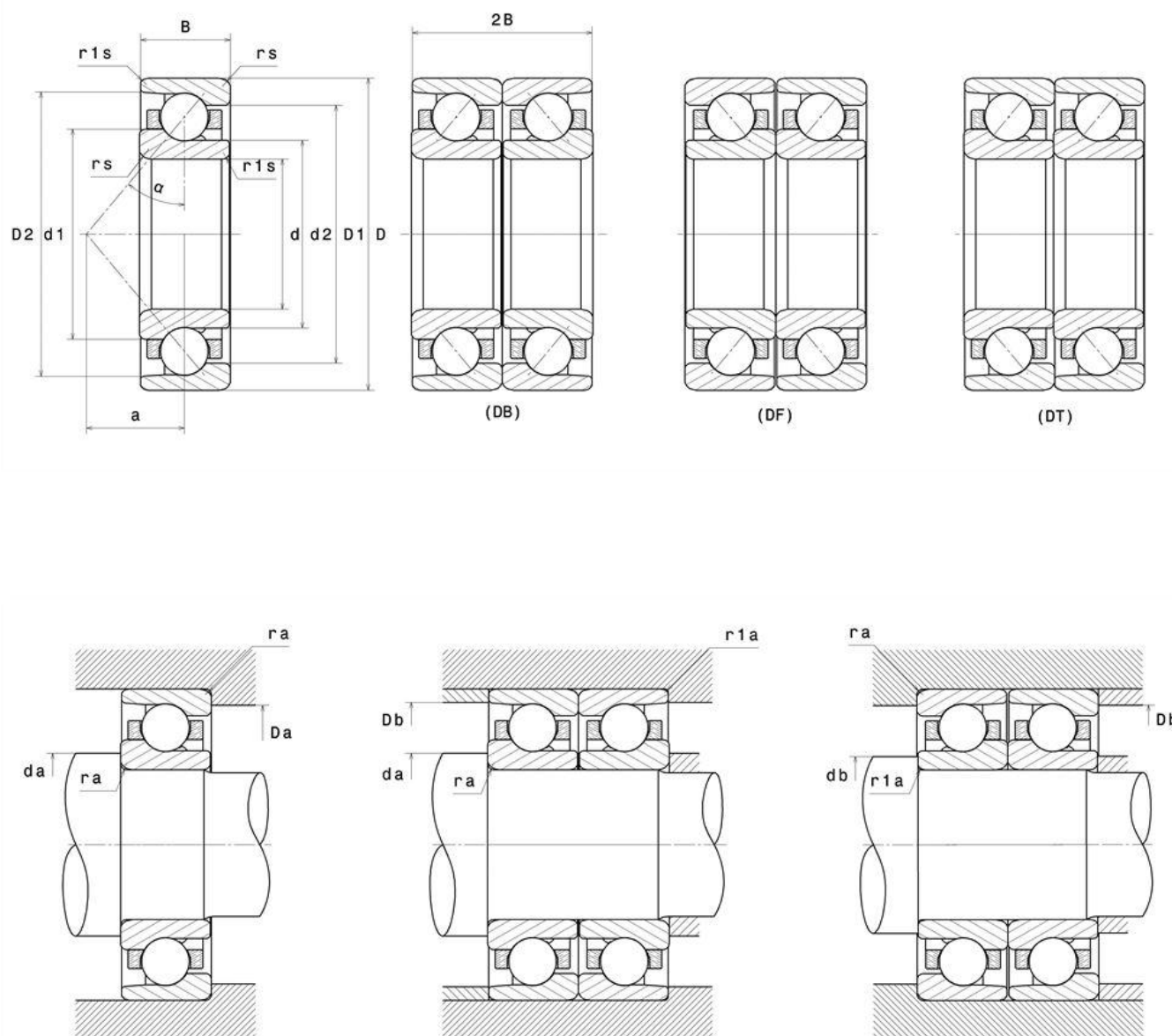
Technical data

7315BL1G

Single row or matched pairs of angular contact ball bearings

Angular contact ball bearing, brass cage inner ring guided

VISUAL (S)



7315BL1G

Single row or matched pairs of angular contact ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	75 mm
D - External diameter	160 mm
B - Bearing/Inner ring width	37 mm
a - Charge load application point	68 mm
- Contact angle	40 °
rs - Min fillet radius	2,1 mm
r1s - Min fillet radius	1,1 mm
Radial clearance class	CN
Mass	3,13 kg

PRODUCT PERFORMANCE

C - Dynamic load	138000000 mN
C0 - Static load	97500000 mN
Cu - Fatigue limit load	7000000 mN
N lim - Oil lubrication limit speed	32400 °/s
N lim - Grease lubrication limit speed	24600 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	87 mm
db min - Min IR shoulder diameter	82 mm
Da max - Max shoulder diameter OR	148 mm
Db max - Max OR shoulder diameter	153 mm



NTN Europe

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ABUTMENT

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