PDF technical sheet
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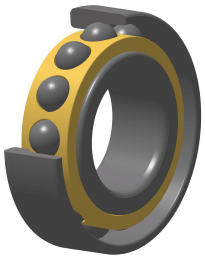
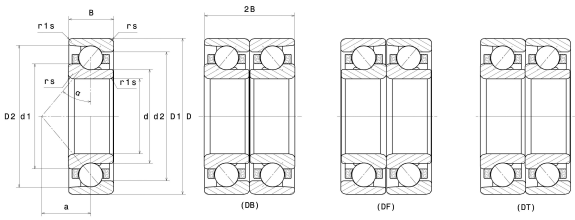
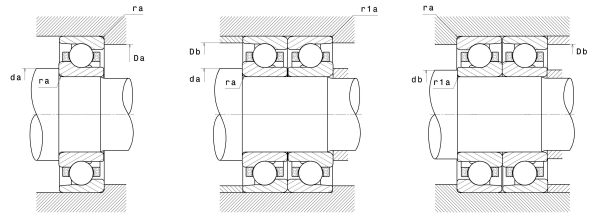


Single row or matched pairs of angular contact ball bearings
Angular contact ball bearing, brass cage inner ring guided

Product definition	
d	75 mm
D	160 mm
B	37 mm
a	68 mm
Contact angle, a	40 °
rs min	2.10 mm
r1s min	1.10 mm
Radial clearance class	CN
Mass	3.51 kg
Brand	NTN



Product performance	
Dynamic load, C	118 kN
Static load, C0	89.30 kN
Fatigue limit load, Cu	3.75 kN
Nlim (oil)	5,400 Tr/min
Nlim (grease)	4,100 Tr/min
Min operating temperature, Tmin	−40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	4.22 Hz
Characteristic outer ring frequency, BPF0	4.53 Hz
Characteristic inner ring frequency, BPFI	6.47 Hz



Abutment dimensions	
da min	87 mm
db min	82 mm
Da max	148 mm
Db max	153 mm
r1a max	1 mm
ra max	2 mm

Calculation 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	
	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 $P_0 < Fr$, then use $P_0 = Fr$