

PDF technical sheet

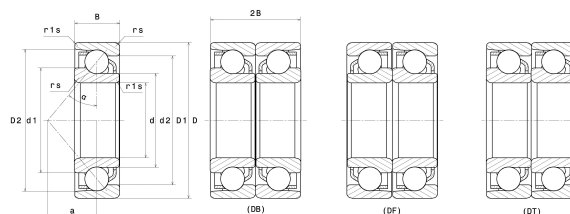
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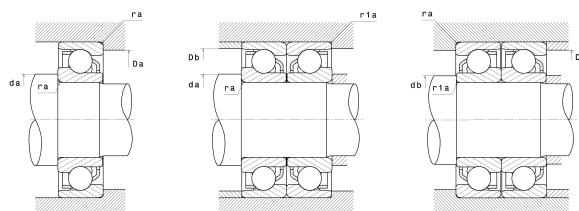
Single row or matched pairs of angular contact ball bearings

Angular contact ball bearings, pressed steel cage

Product definition	
d	4.1339 "
D	8.8583 "
B	1.9291 "
a	3.6811 "
Contact angle, α	40 °
rs min	0.1181 "
r1s min	0.0433 "
Mass	29.49 oz
Brand	NTN



Product performance	
Dynamic load, C	202 kN
Static load, C0	194 kN
Fatigue limit load, Cu	6.90 kN
Nlim (oil)	3,800 RPM
Nlim (grease)	2,900 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	4.19 Hz
Characteristic outer ring frequency, BPF0	4.94 Hz
Characteristic inner ring frequency, BPFI	7.06 Hz



Abutment dimensions	
da min	4.6850 "
db min	4.4094 "
Da max	8.3071 "
Db max	8.5827 "
r1a max	0.0394 "
ra max	0.0984 "

Calculation 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 $P_0 = F_r$