

PDF technical sheet

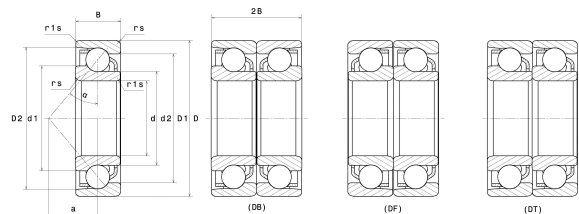
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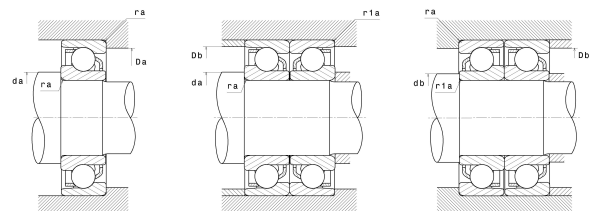
Single row or matched pairs of angular contact ball bearings

Angular contact ball bearings, pressed steel cage

Product definition	
d	5.1181 "
D	11.0236 "
B	2.2835 "
a	4.5276 "
Contact angle, α	40 °
rs min	0.1575 "
r1s min	0.0591 "
Mass	62.08 oz
Brand	NTN



Product performance	
Dynamic load, C	250 kN
Static load, C0	268 kN
Fatigue limit load, Cu	8.50 kN
Nlim (oil)	3,100 RPM
Nlim (grease)	2,300 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	4.49 Hz
Characteristic outer ring frequency, BPF0	5.00 Hz
Characteristic inner ring frequency, BPFI	7.00 Hz



Abutment dimensions	
da min	5.8268 "
db min	10.3150 "
Da max	10.6890 "
Db max	0.1181 "
r1a max	0.0591 "
ra max	0.1181 "

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 $P_0 = F_r$