Technical data

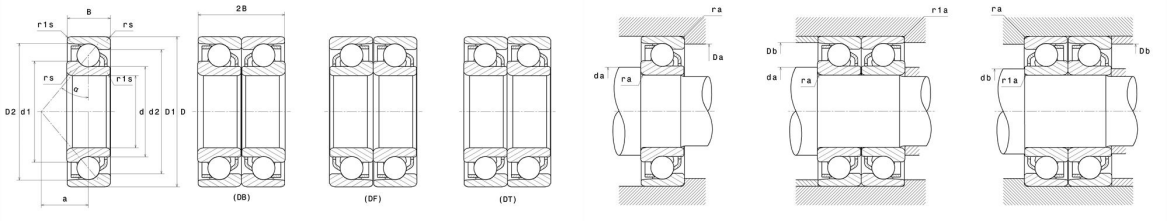
7315B

Single row or matched pairs of angular contact ball bearings

Angular contact ball bearings, pressed steel cage



Visual(s)



Product definition

d	75 mm
D	160 mm
B	37 mm
a	68 mm
Contact angle α	40 °
rs min	2.1 mm
r1s min	1.1 mm
Mass	3.13 kg
Brand	NTN

Product performance

Dynamic load, C	125 kN
Static load, C0	97.5 kN
Fatigue limit load, Cu	4.1 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	4.95 Hz
Characteristic inner ring frequency, BPFI	7.05 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 $P_0 = Fr$