Technical data

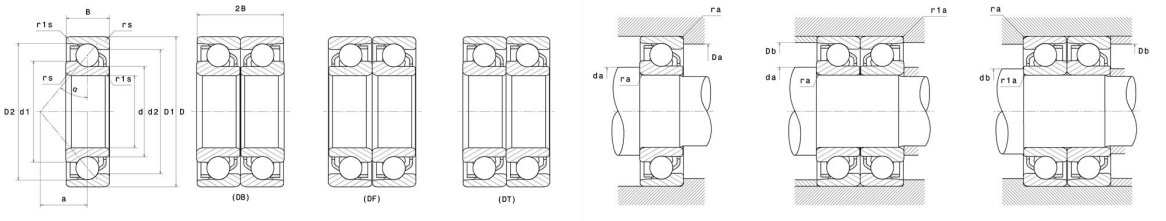
7210B

Single row or matched pairs of angular contact ball bearings

Angular contact ball bearings, pressed steel cage



Visual(s)



Product definition

d	50 mm
D	90 mm
B	20 mm
a	39.5 mm
Contact angle α	40 °
rs min	1.1 mm
r1s min	0.6 mm
Mass	0.47 kg
Brand	NTN

Product performance

Dynamic load, C	37.5 kN
Static load, C0	28.6 kN
Fatigue limit load, Cu	1.3 kN
Nlim (oil)	9,000 Tr/min
Nlim (grease)	6,700 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C

Abutment dimensions

da min	57 mm
db min	54.5 mm
Da max	83 mm
Db max	85.5 mm
r1a max	0.6 mm
ra max	1 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 $P_0 = Fr$