Technical data

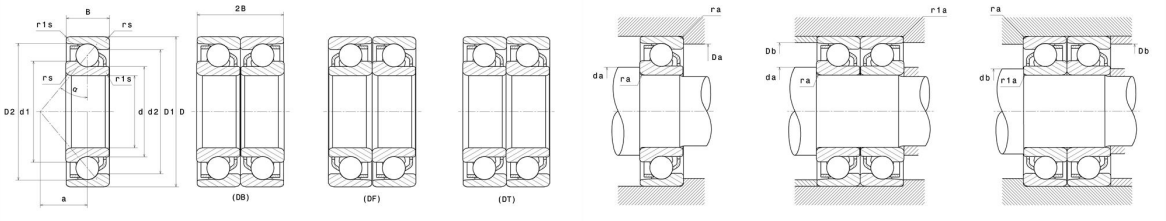
7303BG

Single row or matched pairs of angular contact ball bearings

Angular contact ball bearings, pressed steel cage



Visual(s)



Product definition

d	17 mm
D	47 mm
B	14 mm
a	20.5 mm
Contact angle α	40 °
rs min	1 mm
r1s min	0.6 mm
Radial clearance class	CN
Mass	0.11 kg
Brand	NTN

Product performance

Dynamic load, C	14.8 kN
Static load, C0	8 kN
Fatigue limit load, Cu	0.36 kN
Nlim (oil)	20,000 Tr/min
Nlim (grease)	15,000 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C

Abutment dimensions

da min	22.5 mm
db min	21.5 mm
Da max	41.5 mm
Db max	42.5 mm
r1a max	0.6 mm
ra max	0.6 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 $P_0 = Fr$