Technical data

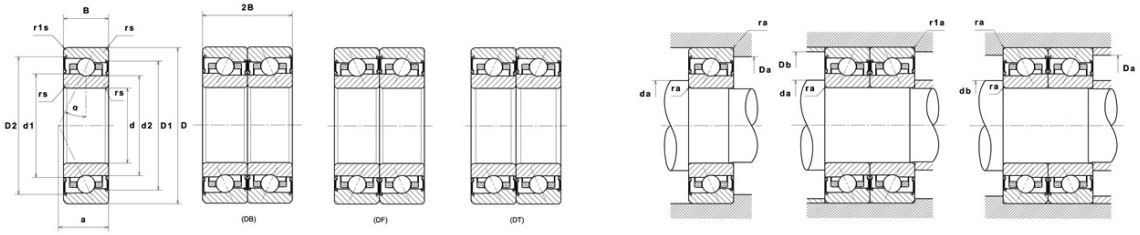
MLE7006HVUJ74S

High precision angular contact ball bearings



High precision angular contact ball bearing, sealed series ML, laminated resin cage centred on outer ring

Visual(s)



Product definition

d	30 mm
D	55 mm
B	13 mm
d1	38.1 mm
d2	36.15 mm
D1	48.55 mm
D2	50.15 mm
a	16 mm
Contact angle α	25 °
rs min	1 mm
r1s min	0.6 mm
f0	8.06
Precision class	P4S
Mass	0.11 kg
Brand	SNR

Product performance

Dynamic load, C	7.8 kN
Static load, C0	4.5 kN
Fatigue limit load, Cu	0.27 kN
Nlim (grease)	32,000 Tr/min
Axial displacement K Factor	0.76
Preload level	7
Preload value	0.065 kN
Axial rigidity	74 N/µm
Radial rigidity	165 N/µm
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	7.4 Hz
Characteristic outer ring frequency, BPF0	8.79 Hz
Characteristic inner ring frequency, BPFI	11.21 Hz

Abutment dimensions

da min	35.5 mm
db min	35.5 mm
Da max	49.5 mm
Db max	49.5 mm
r1a max	0.6 mm
ra max	1 mm
D6	40.1 mm

Calculation factors

Equivalent dynamic radial load

P = X.Fr + Y.Fa

Series				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
70 (NTN & SNR) 72 (NTN & SNR) 78 (NTN) 79 (NTN) 719 (SNR)		15°	0.178	0.38	1	0	0.44	1.47	1	1.65	0.72	2.39
			0.357	0.4				1.4		1.57		2.28
			0.714	0.43				1.3		1.46		2.11
			1.07	0.46				1.23		1.38		2
			1.43	0.47				1.19		1.34		1.93
			2.14	0.5				1.12		1.26		1.82
			3.57	0.55				1.02		1.14		1.66
			5.35	0.56						1.12		1.63
			7.14	0.56				1		1.12		1.63
		25°		0.68			0.41	0.87		0.92	0.67	1.41
		30°		0.8			0.39	0.76		0.78	0.63	1.24

Equivalent static radial load

Po = Xo.Fr + Yo.Fa

Series			Single or DT bearing arrangement		DB or DF arrangement	
			X_0	Y_0	X_0	Y_0
70 (NTN & SNR) 72 (NTN & SNR) 78 (NTN) 79 (NTN) 719 (SNR)		15°	0.5	0.46	1	0.92
		25°		0.38		0.76
		30°		0.33		0.66

For single or DT bearing arrangement :

If Po <Fr, then use Po = Fr