Technical data

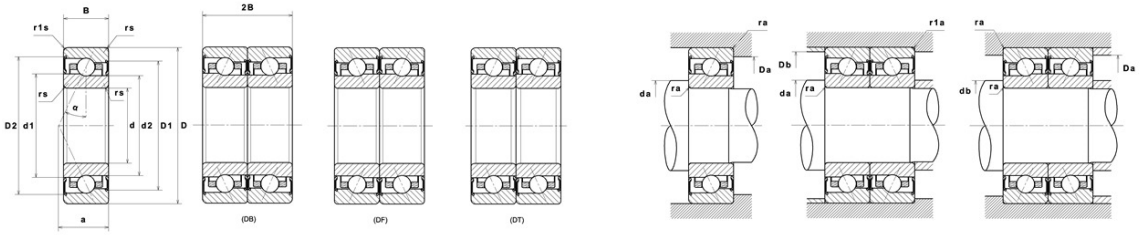
MLE71908CVUJ74S

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	40 mm
D	62 mm
B	12 mm
d1	46.8 mm
d2	44.7 mm
D1	55.91 mm
D2	57.41 mm
a	14 mm
Contact angle α	17 °
rs min	0.6 mm
r1s min	0.3 mm
f0	8.42
Precision class	P4S
Mass	0.11 kg
Brand	SNR

Product performance

Dynamic load, C	6.9 kN
Static load, C0	4.55 kN
Fatigue limit load, Cu	0.29 kN
Nlim (grease)	31,000 Tr/min
Axial displacement K Factor	1.24
Preload level	7
Preload value	0.035 kN
Axial rigidity	37 N/µm
Radial rigidity	186 N/µm
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	10.35 Hz
Characteristic outer ring frequency, BPF0	11.36 Hz
Characteristic inner ring frequency, BPFI	13.64 Hz

Abutment dimensions

da min	44.5 mm
db min	44.5 mm
Da max	57.5 mm
Db max	57.5 mm
r1a max	0.3 mm
ra max	0.6 mm
D6	48.3 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