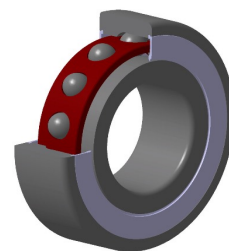


PDF technical sheet

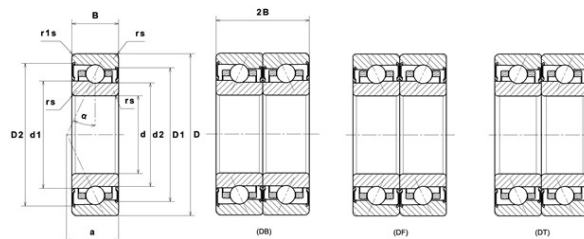
MLE7008CVUJ84S



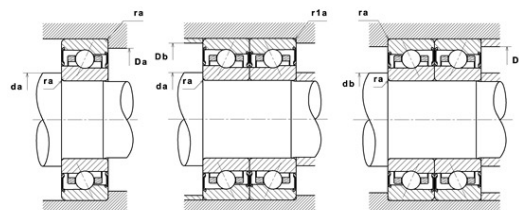
High precision angular contact ball bearings

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

Product definition	
d	40 mm
D	68 mm
B	15 mm
d1	49.20 mm
d2	46.90 mm
D1	60.91 mm
D2	63.31 mm
a	16 mm
Contact angle, α	17 °
rs min	1 mm
r1s min	0.60 mm
f0	8.148
Precision class	P4S
Mass	0.19 kg
Brand	SNR



Product performance	
Dynamic load, C	10.90 kN
Static load, C0	6.90 kN
Fatigue limit load, Cu	0.40 kN
Nlim (grease)	30,000 Tr/min
Axial displacement K Factor	1.23
Preload level	8
Peloid value	160 kN
axial rigidity	65 N/μm
radial rigidity	308 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	8.29 Hz
Characteristic outer ring frequency, BPF0	9.75 Hz
Characteristic inner ring frequency, BPFI	12.25 Hz



Abutment dimensions

da min	45.50 mm
db min	45.50 mm
Da max	62.50 mm
Db max	62.50 mm
r1a max	0.60 mm
ra max	1 mm
D6	51.40 mm

Calculation factors

Equivalent dynamic radial load

$$P = X \cdot Fr + Y \cdot Fa$$

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

$$P_0 = X_0 \cdot Fr + Y_0 \cdot Fa$$

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 $P_0 < Fr$, then use $P_0 = Fr$