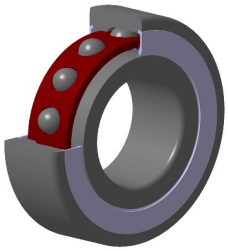
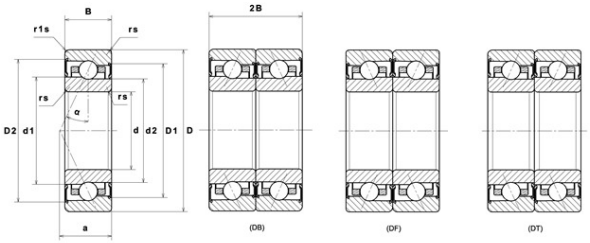
PDF technical sheet
MLE71908HVUJ84S



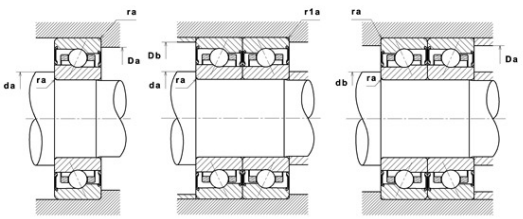
High precision angular contact ball bearings

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

Product definition	
d	40 mm
D	62 mm
B	12 mm
d1	46.80 mm
d2	44.70 mm
D1	55.91 mm
D2	57.41 mm
a	18 mm
Contact angle, a	25 °
rs min	0.60 mm
r1s min	0.30 mm
f0	8.479
Precision class	P4S
Mass	0.11 kg
Brand	SNR



Product performance	
Dynamic load, C	6.50 kN
Static load, C0	4.35 kN
Fatigue limit load, Cu	0.29 kN
Nlim (grease)	26,000 Tr/min
Axial displacement K Factor	0.69
Preload level	8
Peload value	160 kN
axial rigidity	114 N/μm
radial rigidity	245 N/μm
Min operating temperature, Tmin	−20 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.46 Hz
Characteristic rolling element frequency, BSF	10.36 Hz
Characteristic outer ring frequency, BPF0	11.42 Hz
Characteristic inner ring frequency, BPFI	13.59 Hz



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S.A. au capital de 123 599 542 € - RCS ANNECY B 325 821 072 – Id. Fiscale : FR 48 325 821 072 – SIRET 325 821 072 00015 –
Code APE 2815 Z – Code NACE 28.15

Abutment dimensions	
da min	44.50 mm
db min	44.50 mm
Da max	57.50 mm
Db max	57.50 mm
r1a max	0.30 mm
ra max	0.60 mm
D6	48.30 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°	0.38	1	0	0.44	1.47	1	1.65	0.72	2.39
		0.4				1.4		1.57		2.28
		0.43				1.3		1.46		2.11
		0.46				1.23		1.38		2
		0.47				1.19		1.34		1.93
		0.5				1.12		1.26		1.82
		0.55				1.02		1.14		1.66
		0.56						1.12		1.63
		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