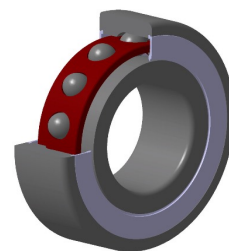


PDF technical sheet

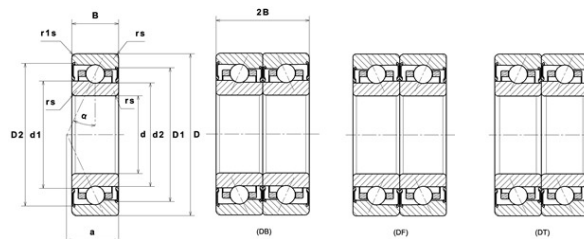
MLE71912HVUJ74S



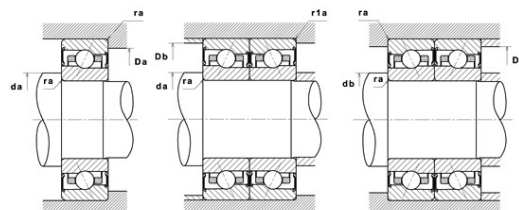
High precision angular contact ball bearings

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

Product definition	
d	60 mm
D	85 mm
B	13 mm
d1	68.10 mm
d2	66.15 mm
D1	78.71 mm
D2	80.31 mm
a	23 mm
Contact angle, α	25 °
rs min	1 mm
r1s min	0.30 mm
f0	8.684
Precision class	P4S
Mass	0.19 kg
Brand	SNR



Product performance	
Dynamic load, C	9.80 kN
Static load, C0	7.80 kN
Fatigue limit load, Cu	0.44 kN
Nlim (grease)	18,500 Tr/min
Axial displacement K Factor	0.56
Preload level	7
Peloid value	80 kN
axial rigidity	108 N/ μ m
radial rigidity	242 N/ μ m
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.47 Hz
Characteristic rolling element frequency, BSF	12.84 Hz
Characteristic outer ring frequency, BPF0	14.88 Hz
Characteristic inner ring frequency, BPFI	17.12 Hz



Abutment dimensions

da min	65.50 mm
db min	65.50 mm
Da max	79.50 mm
Db max	79.50 mm
r1a max	0.30 mm
ra max	1 mm
D6	70 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

$$Po = Xo \cdot Fr + Yo \cdot Fa$$

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 $Po < Fr$, then use $Po = Fr$