



Power-Off, Spring Applied Brake and Torque Limiter All-in-One

For Robotics and Medical Equipment



③ **Controlled Slip**

Functions as a torque limiter under external load while holding, emergency braking, or power outage.

③ **High Torque Stability**

Friction material allows stable torque during slipping, and after slipping as well.

③ **Special Friction Material**

Reduces friction and extends service life.

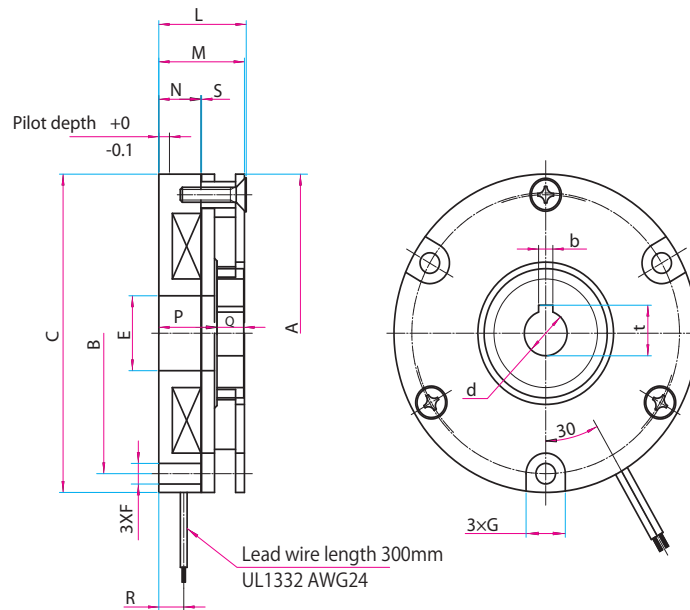
③ **Light Weight**



"What You Need in a Clutch®"

MCNB-TSp Series

Low Wear, Torque Limiting, EM Spring-Applied Brake



MCNB-TSp		3	10	30	40
Static Torque Rating [N • m]		0.32	1.37	3.0	4.0
Moment of Inertia Jx10 ⁻⁴ [kg • m ²]		0.002	0.018	0.047	0.16
Keyway	dH7	8	10	12	12
Bore	b JS9 xt	2 × 9+0.15/0	3 × 11.4+0.15/0	4 × 13.8+0.15/0	4 × 13.8+0.15/0
	A	35	52	68	85
	B ±0.2	29	46	60	75
	C 0/-0.1	35	52	68	85
	E	9	12	18	20
	F	3.4	3.4	4.5	5.5
	G	7	8	8	11
	L	20.5	20.5	20.5	22.5
	M	20	20	20	22
	N	13	12	10.7	11.8
	P ±0.2	16.2	15.8	14.7	16.3
	Q	3.5	4	4	7.5
	R	6	6.5	7	7
	S Initial air gap	0.06 ~0.13	0.07 ~0.15	0.08 ~0.15	0.1 ~0.25
Mass [kg]		0.1	0.25	0.4	0.67

Model MCNB-TSp	Rated Torque	Voltage (VDC)	Current (A)	Coil Resistance (Ω)	Power (W)	Engagement time (ms)	Release time (ms)	Max Speed r (min)
3	0.32	24 / 12	0.54 / 0.27	44.2	13 / 3.3	15	30 When using power supply OPC	6000
10	1.37	24 / 12	0.67 / 0.33	36.0	16 / 4.0	25	50 When using power supply OPC	6000
30	3.0	24 / 12	0.75 / 0.38	32.0	18 / 4.5	30	60 When using power supply OPC	6000
40	4.0	24 / 12	0.81 / 0.41	29.6	19.5 / 4.9	50	70 When using power supply OPC	6000



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