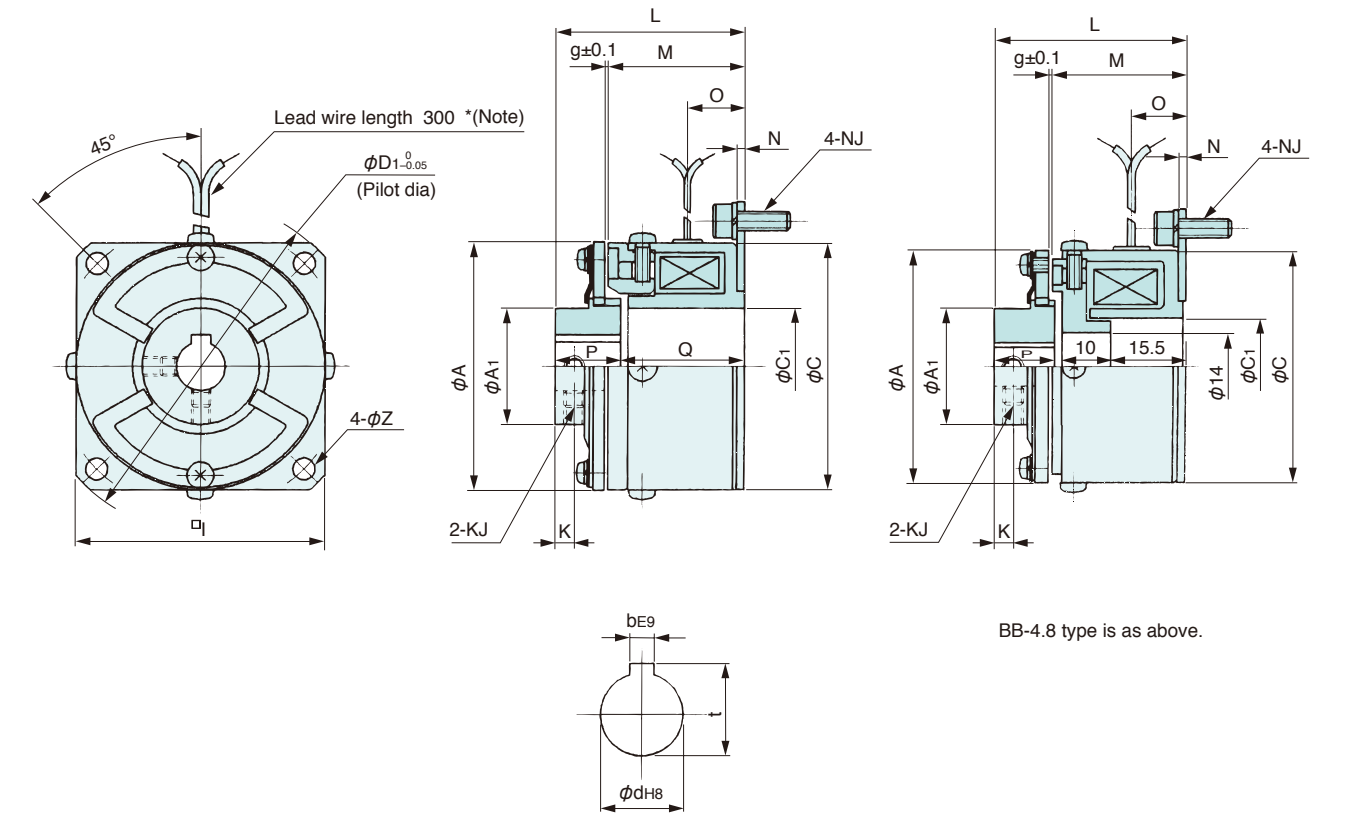


Brake

BB-3.5, 4, 4.8, 5, 6, 7, 9

Model	Static friction torque(Nm)	Rated voltage(DC-V)	Power consumption at75°C(W)	Mass(kg)
BB-3.5	0.25	24	2	0.13
BB-4	0.5	24	4.6	0.15
BB-4.8	1.2	24	5	0.27
BB-5	2	24	6.4	0.31
BB-6	4	24	10.6	0.45
BB-7	7	24	10	0.58
BB-9	15	24	13.5	1.2

(Note) BB-9 is terminal stand type.



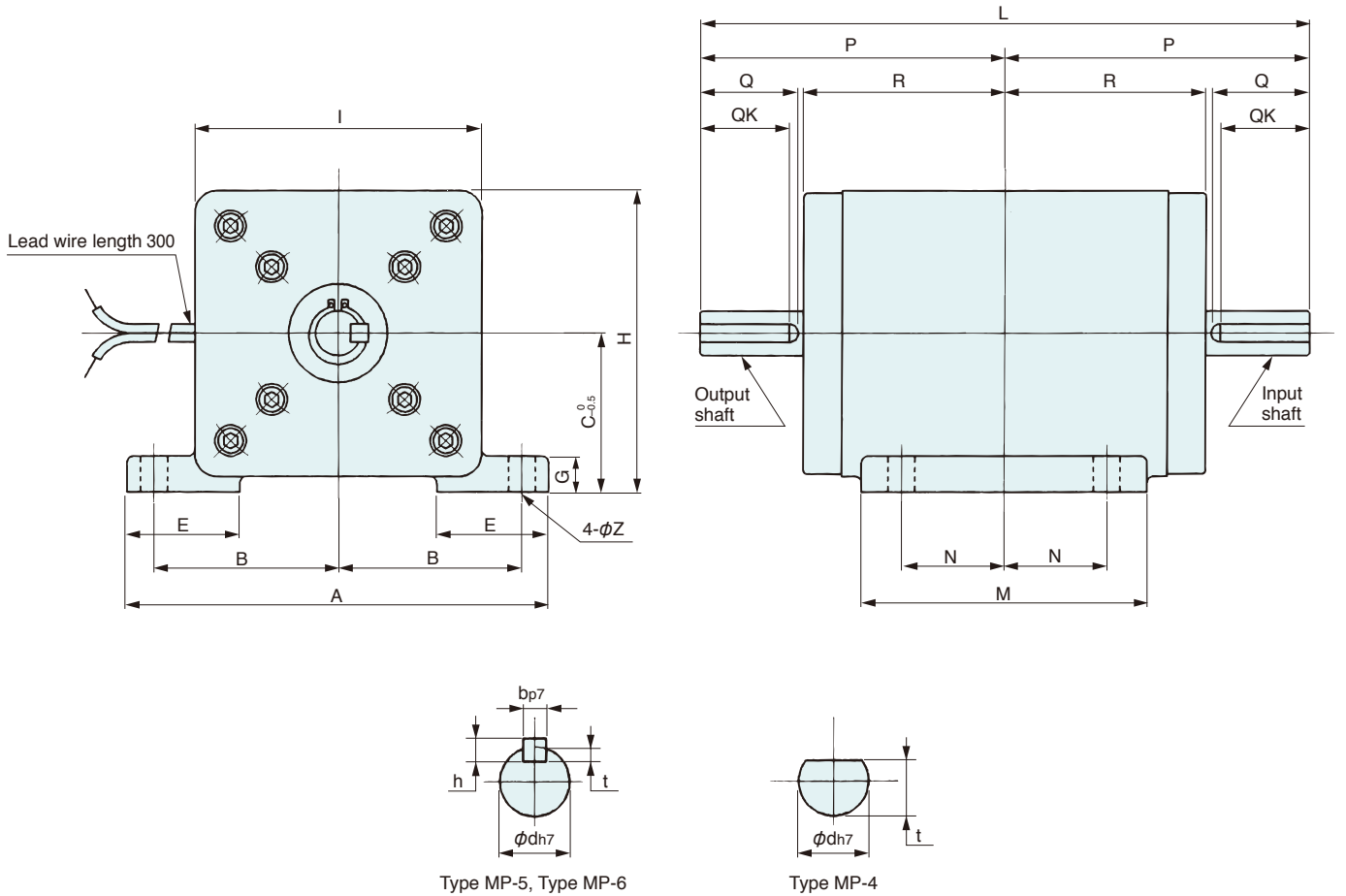
Unit : mm

Model	Diameter direction						Shaft direction								Attachment				Shaft hole		
															K	KJ	NJ				
	A	A ₁	C	C ₁	D ₁	I	L	M	N	O	P	Q	g	Z			P.C.D	Bolt	d	b	t
BB-3.5	33.5	16	35	13.5	47	35	31	22	1.6	8.1	10	21	0.2	3.2	3	M3x3	41	M3x6	6	2	6.9
BB-4	36.5	16	38	13.5	50	38	31	22	1.6	7.6	10	21	0.2	3.2	3	M3x3	44	M3x6	6	2	6.9
BB-4.8	48	24	48	20	65	48	39.5	28	1.6	15	12.5	27	0.3	4.5	4	M4x4	57	M4x12	8	2.5	8.9
BB-5	51.3	24	51	24	68	51	39	28.5	1.6	5.6	13.5	25.5	0.3	4.5	4	M4x4	60	M4x12	10	4	11.5
BB-6	58.5	28	61	25.5	80	61	42	28	1.6	6.6	15	27	0.3	4.5	5	M5x5	70	M4x12	12	4	13.5
BB-7	64	29	67	26.95	88.87	67	47.4	31.7	1.6	11.5	18	29.4	0.4	4.7	4.5	M5x5	79.4	M4x12	15	5	17
BB-9	86	25	86	49	112	86	56	39	4	20	22	34	0.5	5.8	4.8	M6x6	100	—	17	5	19

Clutch/Brake Unit

MP-4, 5, 6

Model		Static friction torque(Nm)	Rated voltage(DC-V)	Power consumption at75°C(W)	Mass(kg)
MP-4	Clutch	0.5	24	4.6	0.6
	Brake				
MP-5	Clutch	2	24	6.4	1.3
	Brake				
MP-6	Clutch	4	24	10.6	1.7
	Brake				



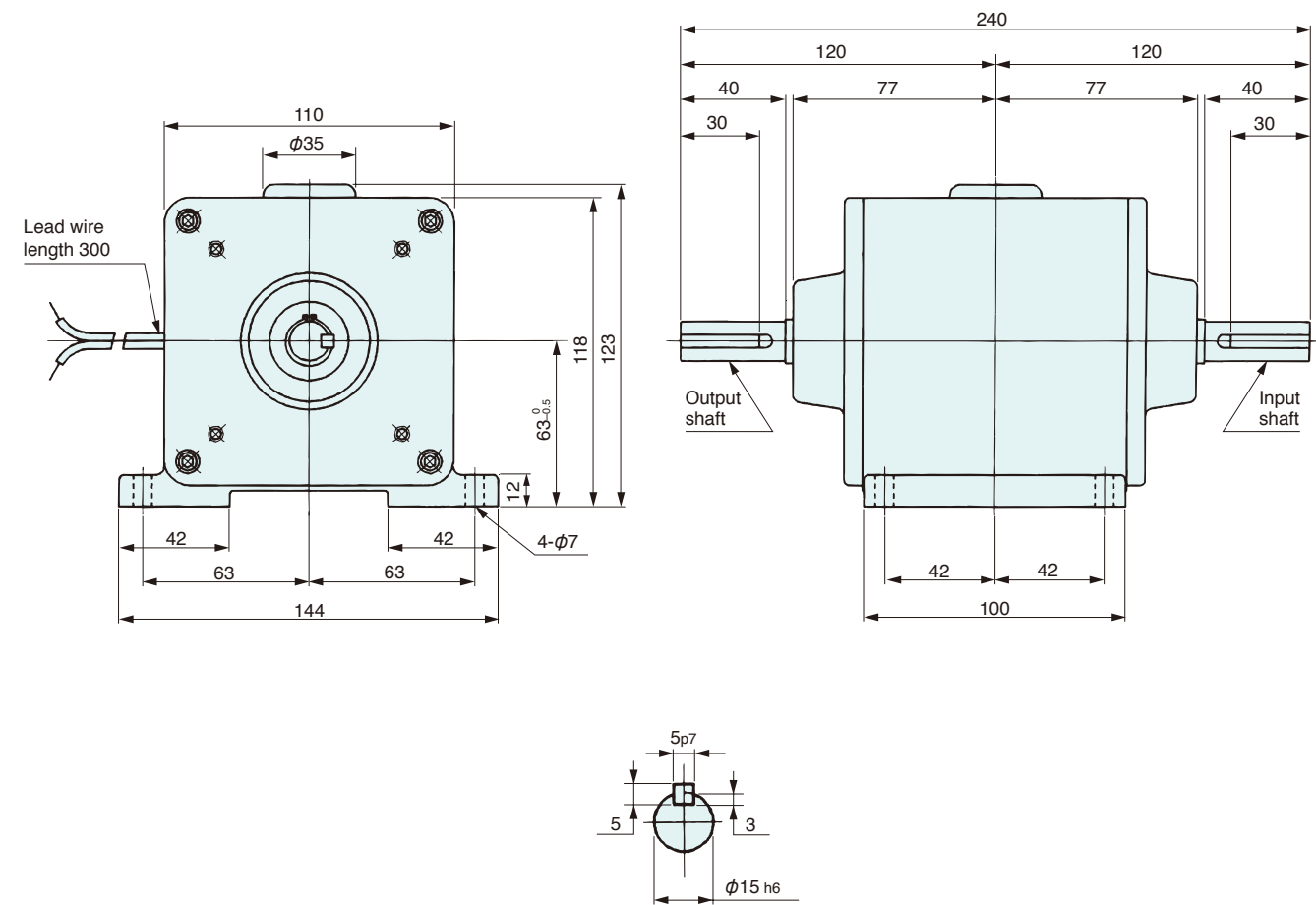
Unit : mm

Model	Diameter direction							Shaft direction						Shaft end					
	A	B	C	E	G	H	I	L	M	N	P	R	Z	Q	QK	d	b	h	t
MP-4	72	31	25	20	6	48.5	47	100	48	17	50	34	5	15.1	14	6	—	—	5
MP-5	94	41	35.5	25	8	67.5	64	136	64	23	68	45	6	22	20	10	4	4	2.5
MP-6	110	48	40	30	10	77	74	156	68	24	78	48	7	22	20	12	4	4	2.5

Clutch/Brake Unit

MP-9

Model		Static friction torque(Nm)	Rated voltage(DC-V)	Power consumption at75°C(W)	Mass(kg)
MP-9	Clutch	15	24	12	5
	Brake			13.5	



Unit : mm

Non-excitation Electromagnetic Clutches/Brakes

INDEX

1	Permanently Closed Clutches/Brakes	143
2	Spring Closed Brakes	157
3	Spring Closed Large Scale Clutch	170