

# PBM VAR 00

## Electro-Magnetic Single Disc Brake

### Characteristics

- Electrically operated 12, 24, 103,5 VDC
- Single friction face
- Activated by power on

### Utilisation

- Braking or maintaining a pulley or a hub

### Particularities

- No backlash
- For dry use
- No residual torque in disengaged position

### Adjustments

- Airgap "P" should be adjusted at installation
- Requires wear compensation

### Maintenance Manual

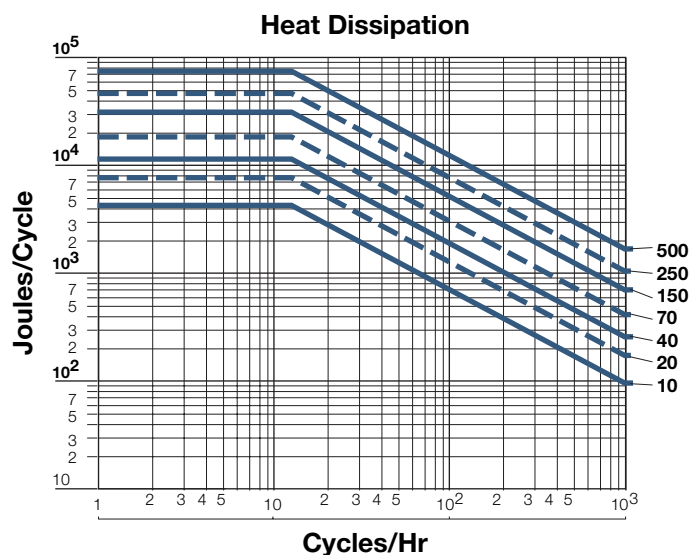
- SM 304

### Mounting Precautions

- Centre the inductor
- Device intended for horizontal or vertical use

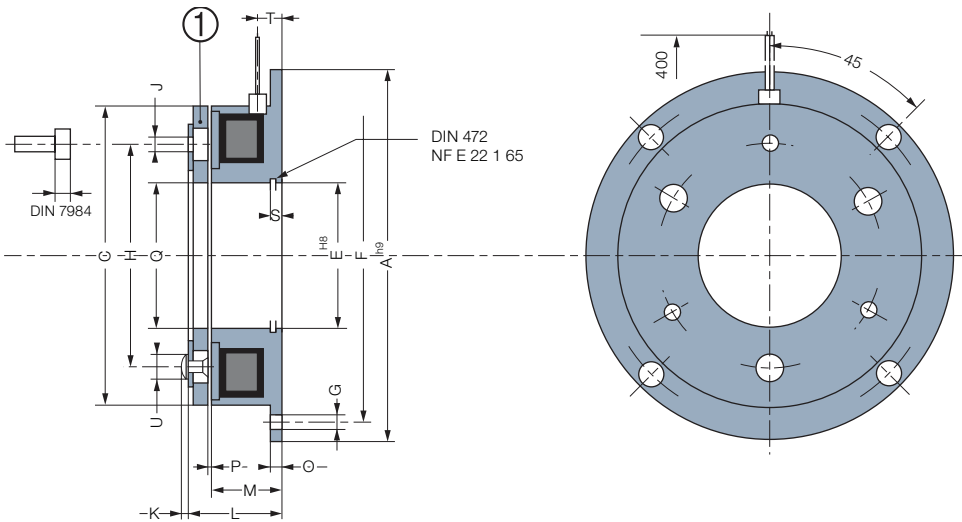
### Power Supply

- For 24 volts versions only :  
CBC 400-24, CBC 450-24  
CBC 500-24, CBC 550-24  
CBC 700 (overexcitation)  
CBC 140-5 + CBC 140-T (24V)  
CBC 140-5 (103,5V)



## Electro-Magnetic Single Disc Brake

**EUROstandard  
Indirect Drive**

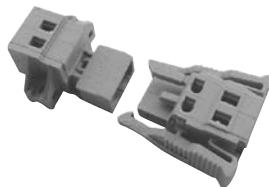


Sizes		10	20	40	70	150	250	500
<b>Nom. Torque</b>	[Nm]	7	15	30	60	120	250	500
<b>Max. Speed</b>	[min.⁻¹]	8000	6000	5000	4000	3000	2500	2000
<b>Power</b>	P20 [12/24/103,5V] [W]	9	16,5	21	24	30	43	58
	A	80	100	125	150	190	230	290
	C	63	81	100	125	160	200	250
	E	35	41	52	62	80	100	125
	F	72	90	112	137	175	215	270
	G For Screw	4xM4	4xM5	4xM6	4xM6	4xM8	4xM8	4xM10
	H	46	60	76	95	120	158	210
	J For Screw	3xM3	3xM4	3xM5	3xM6	3xM8	3xM10	4xM12
	K	1	1,5	2	2,5	3	3	5
	L	22	24,5	28	31	35	41,5	48,3
	M	18	20	22	24	26	30	35
	O	2	2,5	3	3,5	4	5	6
	P	0,2	0,2	0,3	0,3	0,3	0,5	0,5
	Q	35	42	52	62	80	100	125
	S	3,5	4,3	5	5,5	6	7	8
	T	6	6,5	9	9,5	10,5	12	12
	U	6	6	10	12	12	17	20
<b>Inertia</b>	[kgm²]	0,00004	0,00012	0,0005	0,0013	0,0049	0,0140	0,0360
<b>Weight</b>	[kg]	0,3	0,5	0,95	1,7	3,3	5,9	11,5
<b>Connection</b>		<b>Leads</b>			<b>Cable</b>			

### Connector Options

(Delivered without cable)

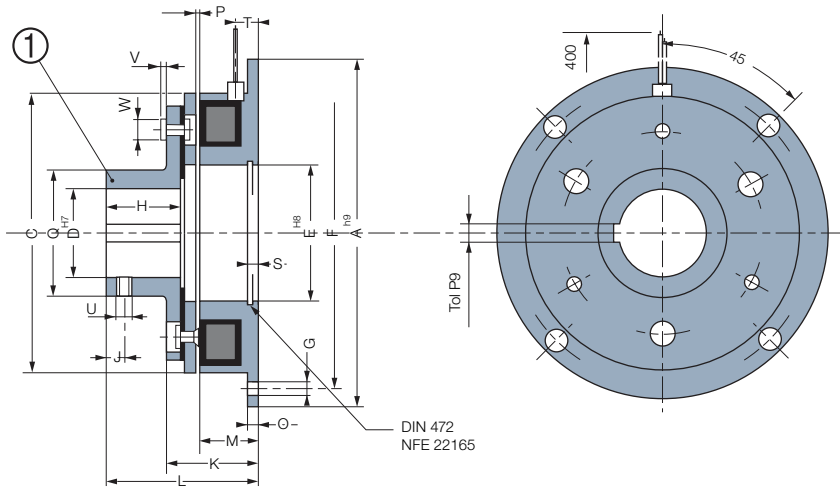
2 poles, capacity : 0,5/2,5mm²



(1)- Fixing "J" on mobile armature by mean of screws DIN 7984 (not provided)

# PBM VAR 01

## Electro-Magnetic Single Disc Brake



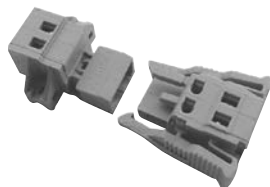
**EUROstandard  
Direct Drive**

Sizes		10	20	40	70	150	250	500	
Nom. Torque	[Nm]	7	15	30	60	120	250	500	
Max. Speed	[min.]	8,000	6,000	5000	4000	3000	2500	2000	
Power	P20 [12/24/103,5V] [W]	9	16,5	21	24	30	43	58	
	A	80	100	125	150	190	230	290	
	C	63	81	100	125	160	200	250	
	D min	10H8	10H8	14H8	14H7	20H7	25H7	25H7	
	D std	10/15/17	10/17/20	20/25/30	25/30/35	30/40/45	40/50/60	50/60/80	
	D max	17H8	20H8	30H8	35H7	45H7	60H7	80H7	
	E	35	42	52	62	80	100	125	
	F	72	90	112	137	175	215	270	
	G For Screw	4xM4	4xM5	4xM6	4xM6	4xM8	4xM8	4xM10	
	H	15	20	25	30	38	48	55	
	J	5	6	6	10	10	15	20	
	K	25,5	28,5	33	37	42	52,3	62,3	
	L	37	44,5	53	61	73	89,5	103,5	
	M	18	20	22	24	26	30	35	
	O	2	2,5	3	3,5	4	5	6	
	P	0,2	0,2	0,3	0,3	0,3	0,5	0,5	
	Q	27	32	42	49	65	83	105	
	S	3,5	4,3	5	5,5	6	7	8	
	T	6	6,5	9	9,5	10,5	12	12	
	U	M4	M4	M4	M6	M8	M10	M10	
	V	1,5	2	2,5	3	4	1,5	2,5	
	W	6	8	10	12	16	20	24	
Inertia	① [kgm <sup>2</sup> ]	0,00006	0,00021	0,00079	0,0020	0,0077	0,0242	0,0705	
Weight	[kg]	0,4	0,7	1,32	2,32	4,8	9	17,6	
Connection		Leads				Cable			

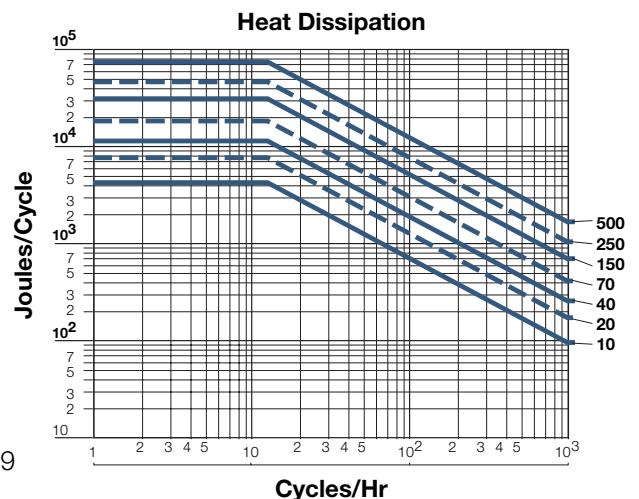
### Connector Options

(Delivered without cable)

2 poles, capacity : 0,5/2,5mm<sup>2</sup>

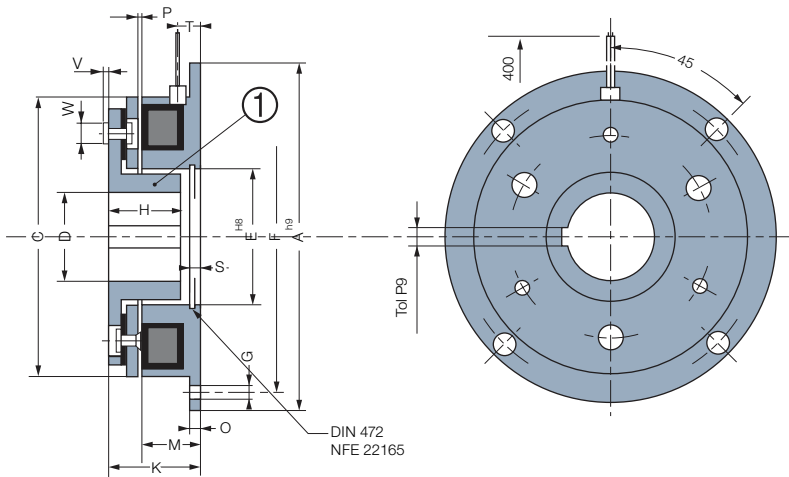


Keyways according to  
ISO/R 773 / BS 4235 / DIN 6885-1 / NF E 22-175, tolerance P9



## Electro-Magnetic Single Disc Brake

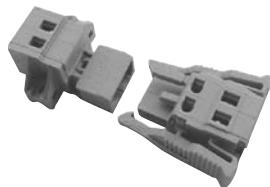
**EUROstandard  
Direct Drive**



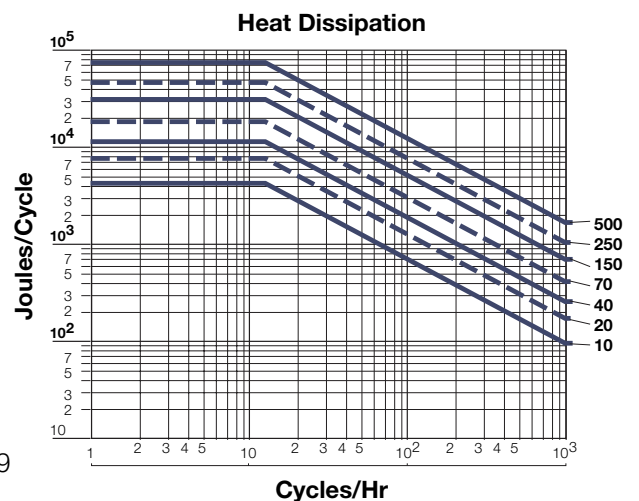
Sizes		10	20	40	70	150	250	500	
<b>Nom. Torque</b>	[Nm]	7	15	30	60	120	250	500	
<b>Max. Speed</b>	[min.-]	8000	6000	5000	4000	3000	2500	2000	
<b>Power</b>	P20 [12/24/103,5V] [W]	9	16,5	21	24	30	43	58	
	A	80	100	125	150	190	230	290	
	C	63	81	100	125	160	200	250	
	D min	10H8	10H8	14H8	14H7	20H7	25H7	25H7	
	D std	10/15/17	10/17/20	20/25/30	25/30/35	30/40/45	40/50/60	50/60/80	
	D max	17H8	20H8	30H8	35H7	45H7	60H7	80H7	
	E	35	42	52	62	80	100	125	
	F	72	90	112	137	175	215	270	
	G For Screw	4xM4	4xM5	4xM6	4xM6	4xM8	4xM8	4xM10	
	H	15	20	25	30	38	48	55	
	K	25,5	28,5	33	37	42	52,3	62,3	
	M	18	20	22	24	26	30	35	
	O	2	2,5	3	3,5	4	5	6	
	P	0,2	0,2	0,3	0,3	0,3	0,5	0,5	
	S	3,5	4,3	5	5,5	6	7	8	
	T	6	6,5	9	9,5	10,5	12	12	
	V	1,5	2	2,5	3	4	1,5	2,5	
	W	6	8	10	12	16	20	24	
<b>Inertia</b>	① [kgm <sup>2</sup> ]	0,00006	0,00021	0,00079	0,0020	0,0077	0,0242	0,0705	
<b>Weight</b>	[kg]	0,4	0,7	1,32	2,32	4,8	9	17,6	
<b>Connection</b>		<b>Leads</b>				<b>Cable</b>			

### Connector Options

(Delivered without cable)  
2 poles, capacity : 0,5/2,5mm<sup>2</sup>



Keyways according to  
ISO/R 773 / BS 4235 / DIN 6885-1 / NF E 22-175, tolerance P9



# E510 VAR 00

## Electro-Magnetic Single Disc Brake

### Characteristics

- Electrically operated 24 or 103,5 VDC depending size
- Single friction face
- Activated by power on

### Utilisation

- Braking or holding of a shaft

### Particularities

- No Backlash
- For dry use
- No residual torque in disengaged position

### Adjustments

- Airgap "P" should be adjusted at installation
- Does not require wear compensation

### Maintenance Manual

- SM 315

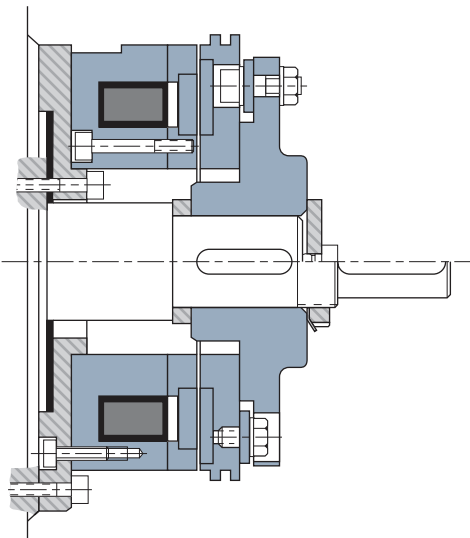
### Mounting Precautions

- Device intended for horizontal or vertical use

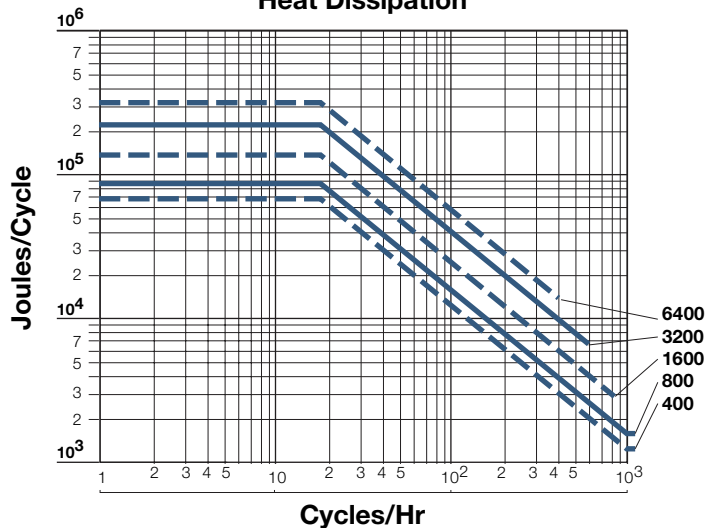
### Power Supply

- For sizes until 1600 :  
CBC 400-24, CBC 450-24  
CBC 500-24, CBC 550-24  
CBC 140-5 + CBC 140-T (24V)
- For size 3200 :  
CBC 140-5 (103,5V)

### Mounting Example

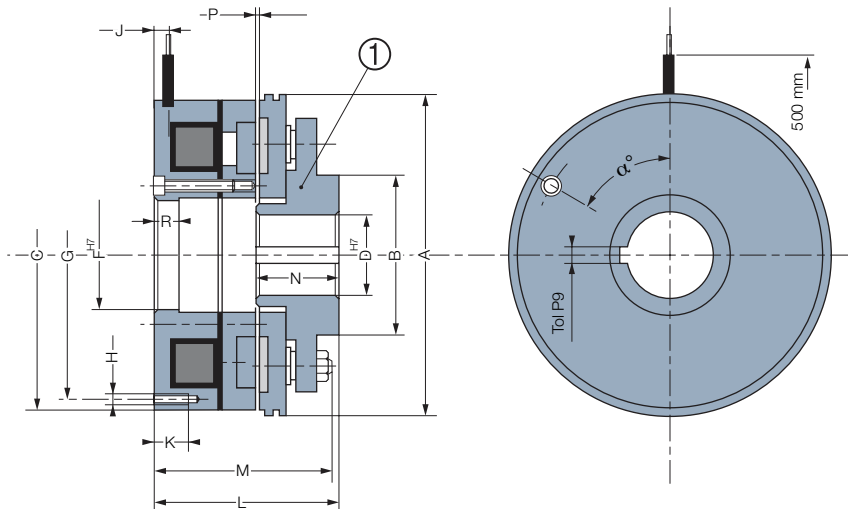


### Heat Dissipation



## Electro-Magnetic Single Disc Brake

**Direct Drive**

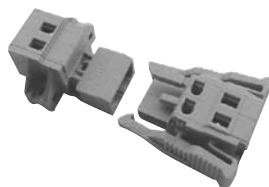


Sizes			400	800	1600	3200	6400
<b>Nom. Torque</b>		[Nm]	400	800	1600	3200	6400
<b>Max. Speed</b>		[min.]	2000	1700	1500	1500	1500
<b>Voltage</b>		[VDC]	24	24	24	103,5	103,5
<b>Power</b>	P20	[W]	29	36	59	89	121
	A		260	300	360	450	560
	B		100	120	140	175	230
	C		260	300	360	450	560
	D min		35	40	50	65	80
	D max		70	80	100	110	150
	E		-	-	-	-	-
	F		110	125	150	195	265
	G		225	265	320	400	500
	H		4xM8	4xM10	4xM12	6xM12	6xM16
	J		7	7	10	10	10
	K		20	20	25	25	30
	L		90	105	120	141	161
	M		95	110	128	146,5	166,5
	N		46	54	60	100	118
	P		0,5	0,6	0,8	0,8	1
	Q		-	-	-	-	-
	R		30	30	30	30	30
	$\alpha^\circ$		45°	45°	45°	30°	30°
<b>Inertia</b>	①	[kgm <sup>2</sup> ]	0,0342	0,0736	0,2042	0,681	1,975
<b>Weight</b>		[kg]	18,1	30	51	105	190
<b>Connection</b>	<b>Cable</b>						

### Connector Options

(Delivered without cable)

2 poles, capacity : 0,5/2,5mm<sup>2</sup>



Keyways according to  
ISO/R 773 / BS 4235 / DIN 6885-1 / NF E 22-175, tolerance P9

# E520 VAR 00

## Electro-Magnetic Single Disc Brake

### Characteristics

- Electrically operated 24 or 103,5 VDC depending on size
- Single friction face
- Activated by power on

### Utilisation

- Braking or maintaining a pulley or a hub

### Particularities

- No backlash
- For dry use
- No residual torque in disengaged position

### Adjustments

- Airgap "P" should be adjusted at installation
- Does not require wear compensation

### Maintenance Manual

- SM 315

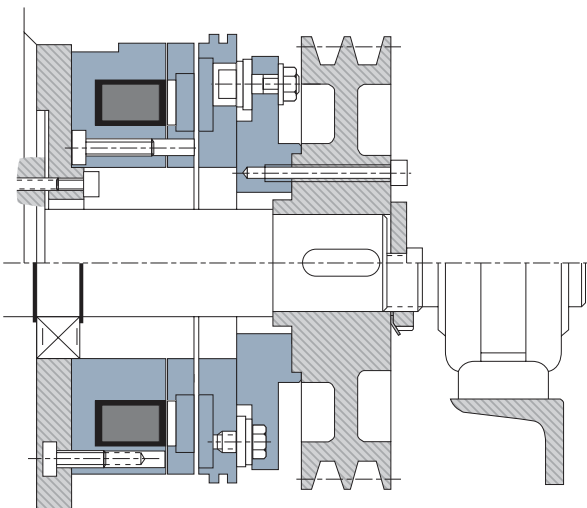
### Mounting Precautions

- Device intended for horizontal or vertical use

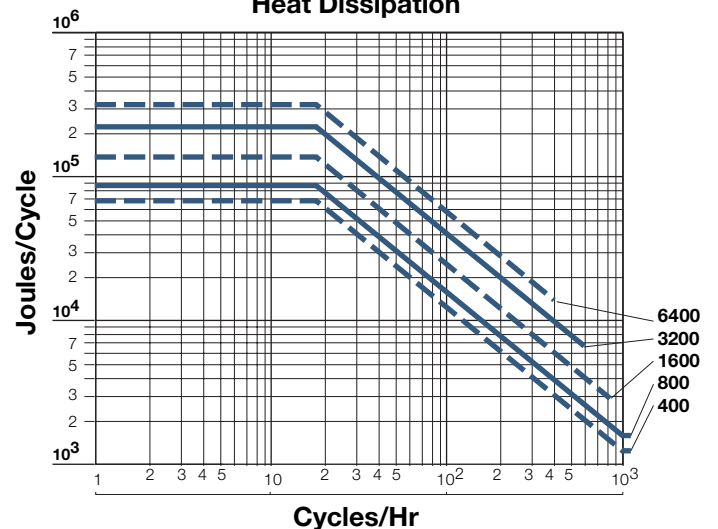
### Power Supply

- For sizes until 1600 :  
CBC 400-24, CBC 450-24  
CBC 500-24, CBC 550-24  
CBC 140-5 + CBC 140-T (24V)
- For size 3200 :  
CBC 140-5 (103,5V)

Mounting Example

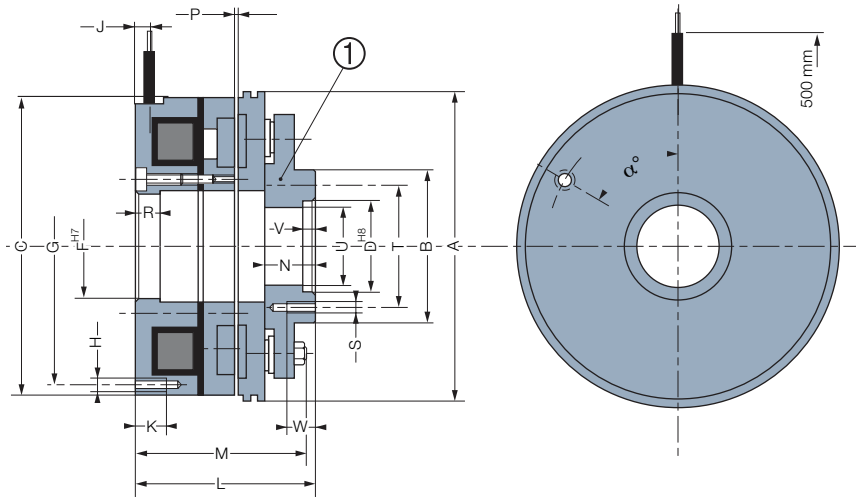


Heat Dissipation



## Electro-Magnetic Single Disc Brake

**Indirect Drive**



Sizes		400	800	1600	3200	6400
<b>Nom. Torque</b>	[Nm]	400	800	1600	3200	6400
<b>Max. Speed</b>	[min.]	2000	1700	1500	1500	1500
<b>Voltage</b>	[VDC]	24	24	24	103,5	103,5
<b>Power</b>	P20 [W]	29	36	59	89	121
	A	260	300	360	450	560
	B	140	155	180	220	295
	C	260	300	360	450	560
	D	100	115	140	150	180
	E	-	-	-	-	-
	F	110	125	150	195	265
	G	225	265	320	400	500
	H	4xM8	4xM10	4xM12	6xM12	6xM16
	J	7	7	10	10	10
	K	20	20	25	25	30
	L	114	131	152	172	198
	M	95	110	128	146,5	166,5
	N	41	49	55	60,4	71,2
	P	0,5	0,6	0,8	0,8	1
	Q	-	-	-	-	-
	R	30	30	30	30	30
	S	6xM8	6xM10	8xM12	8xM12	8xM16
	T	120	135	160	195	260
	U	90	106	126	135	160
	V	5	5	6	7	8
	W	14	15	18	20	25
	$\alpha^\circ$	45°	45°	45°	30°	30°
<b>Inertia</b>	<b>1</b> [kgm <sup>2</sup> ]	0,0342	0,0736	0,2042	0,681	1,975
<b>Weight</b>	[kg]	17,5	29	50	95	173
<b>Connection</b>	<b>Cable</b>					

### Connector Options

(Delivered without cable)

2 poles, capacity : 0,5/2,5mm<sup>2</sup>

