

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

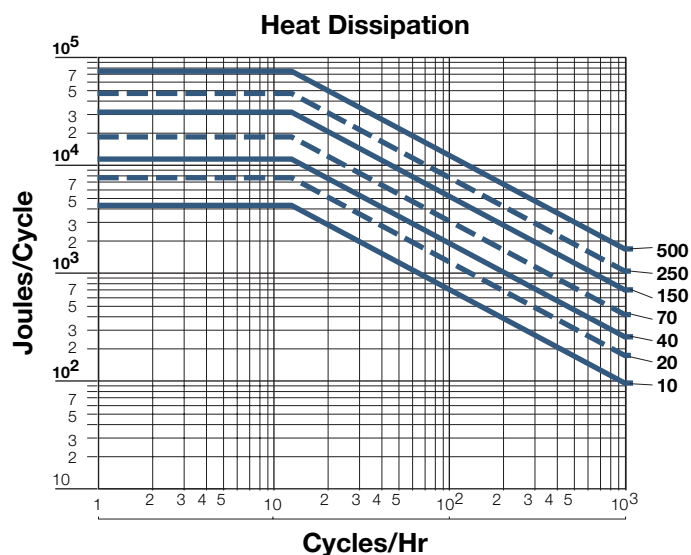
- SM 304

Mounting Precautions

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

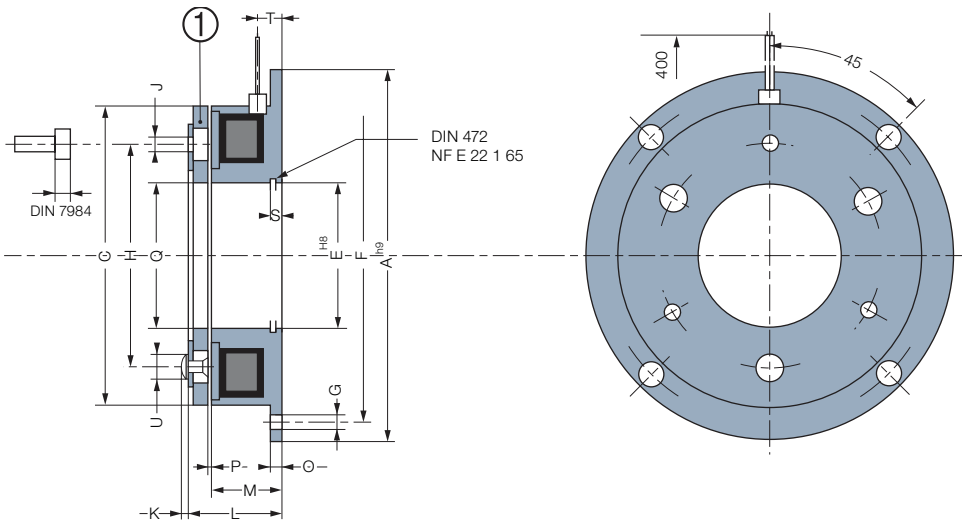
Power Supply

- 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**

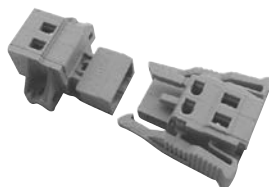


Sizes		10	20	40	70	150	250	500
Nom. Torque	[Nm]	7	15	30	60	120	250	500
Max. Speed	[min.⁻¹]	8000	6000	5000	4000	3000	2500	2000
Power	P20 [12/24/103,5V] [W]	9	16,5	21	24	30	43	58
	A	80	100	125	150	190	230	290
	C	63	81	100	125	160	200	250
	E	35	41	52	62	80	100	125
	F	72	90	112	137	175	215	270
	G For Screw	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
Inertia	[kgm²]	0,00004	0,00012	0,0005	0,0013	0,0049	0,0140	0,0360
Weight	[kg]	0,3	0,5	0,95	1,7	3,3	5,9	11,5
Connection		Leads			Cable			

Connector Options

(Delivered without cable)

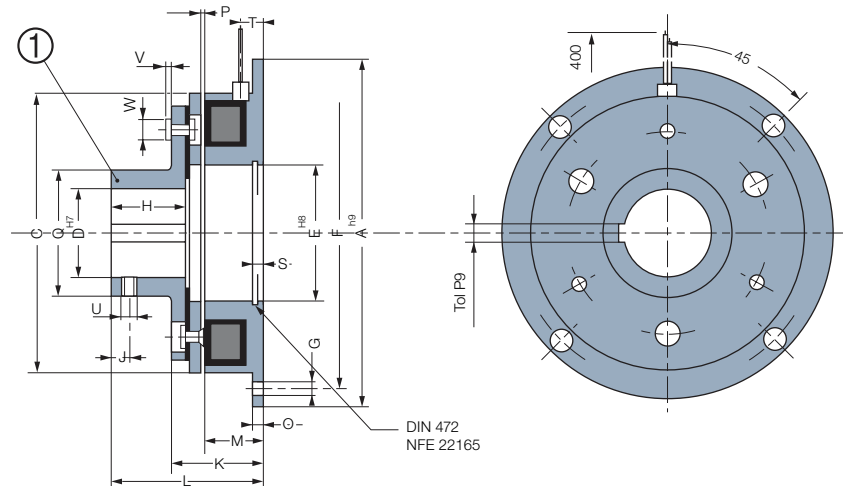
2 poles, capacity : 0,5/2,5mm²



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

PBM VAR 01

Electro-Magnetic Single Disc Brake



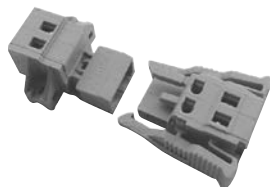
**EUROstandard
Direct Drive**

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 ²]		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			

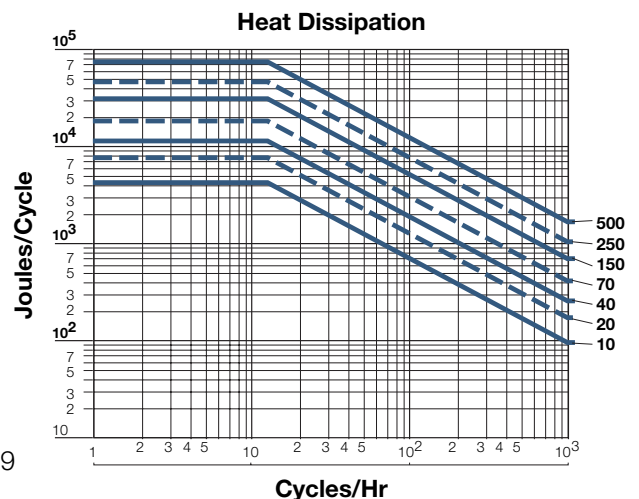
Connector Options

(Delivered without cable)

2 poles, capacity : 0,5/2,5mm²

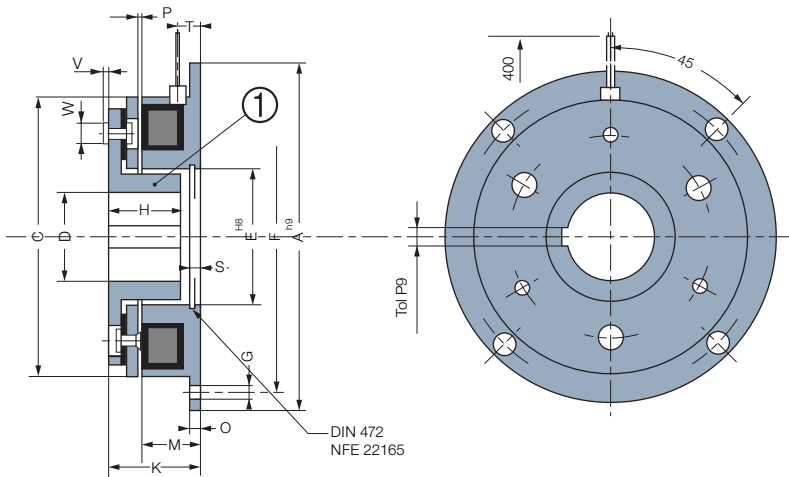


Keyways according to
ISO/R 773 / BS 4235 / DIN 6885-1 / NF E 22-175, tolerance P9



Electro-Magnetic Single Disc Brake

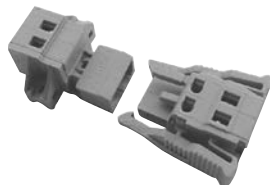
**EUROstandard
Direct Drive**



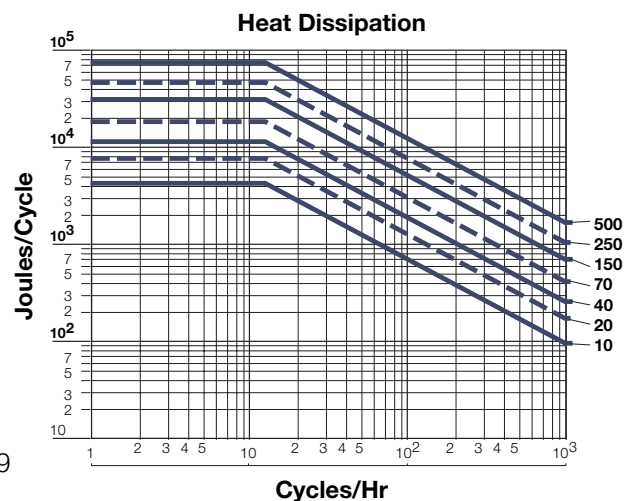
Sizes		10	20	40	70	150	250	500	
Nom. Torque	[Nm]	7	15	30	60	120	250	500	
Max. Speed	[min.-]	8000	6000	5000	4000	3000	2500	2000	
Power	P20 [12/24/103,5V]	[W]	9	16,5	21	24	30	43	58
	A	80	100	125	150	190	230	290	
	C	63	81	100	125	160	200	250	
	D min	10H8	10H8	14H8	14H7	20H7	25H7	25H7	
	D std	10/15/17	10/17/20	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	
	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	
Inertia	①	[kgm ²]	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 : 0,5/2,5mm²



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

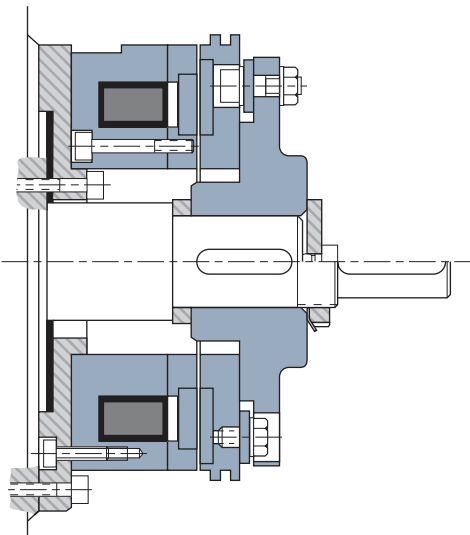
Mounting Precautions

- Device intended for horizontal or vertical use

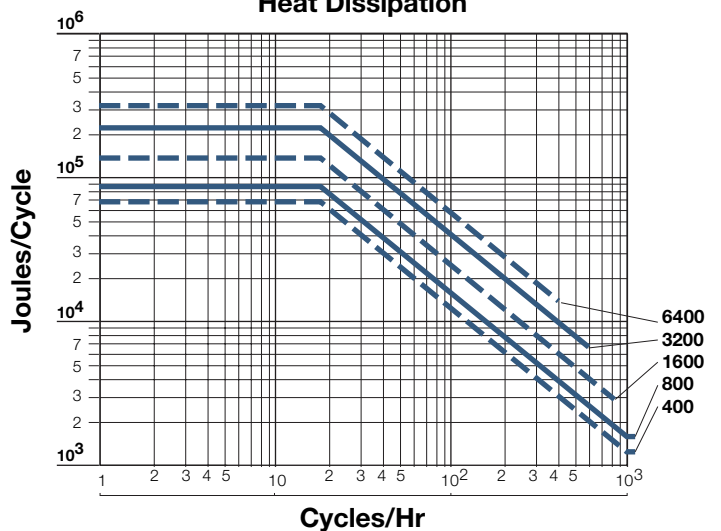
Power Supply

- 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

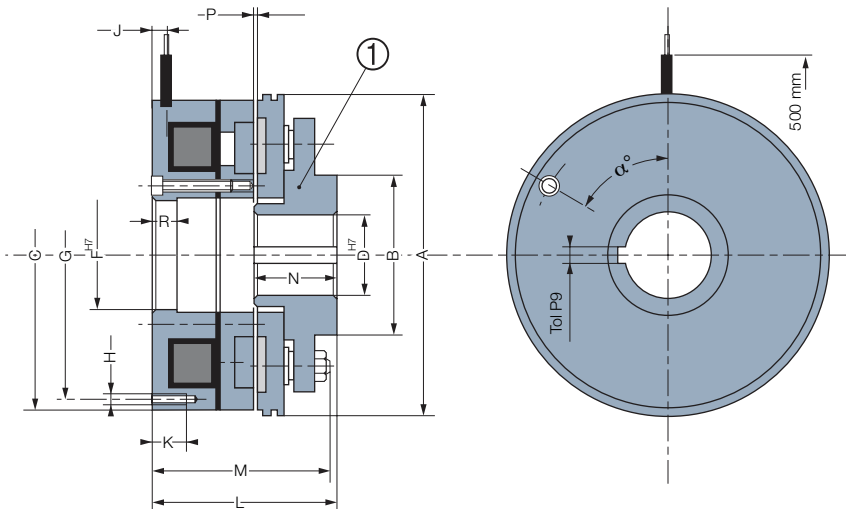


Heat Dissipation



Electro-Magnetic Single Disc Brake

Direct Drive

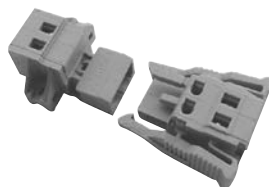


Sizes		400	800	1600	3200	6400
Nom. Torque	[Nm]	400	800	1600	3200	6400
Max. Speed	[min.]	2000	1700	1500	1500	1500
Voltage	[VDC]	24	24	24	103,5	103,5
Power	P20 [W]	29	36	59	89	121
	A	260	300	360	450	560
	B	100	120	140	175	230
	C	260	300	360	450	560
	D min	35	40	50	65	80
	D max	70	80	100	110	150
	E	-	-	-	-	-
	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
	α°	45°	45°	45°	30°	30°
Inertia	① [kgm²]	0,0342	0,0736	0,2042	0,681	1,975
Weight	[kg]	18,1	30	51	105	190
Connection	Cable					

Connector Options

(Delivered without cable)

2 poles, capacity : 0,5/2,5mm²



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

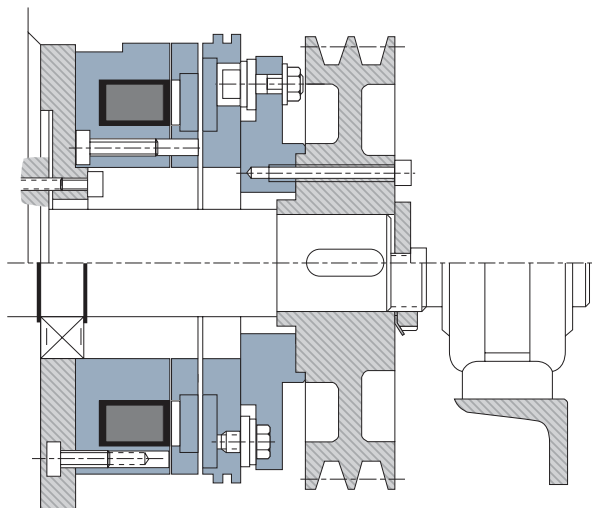
Mounting Precautions

- Device intended for horizontal or vertical use

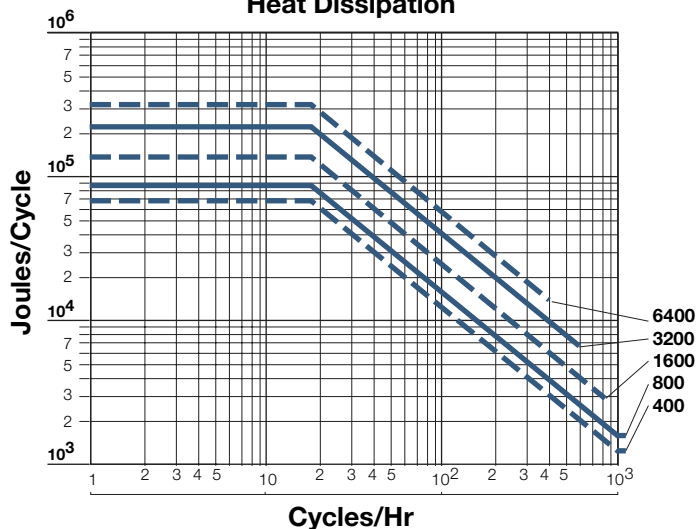
Power Supply

- 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

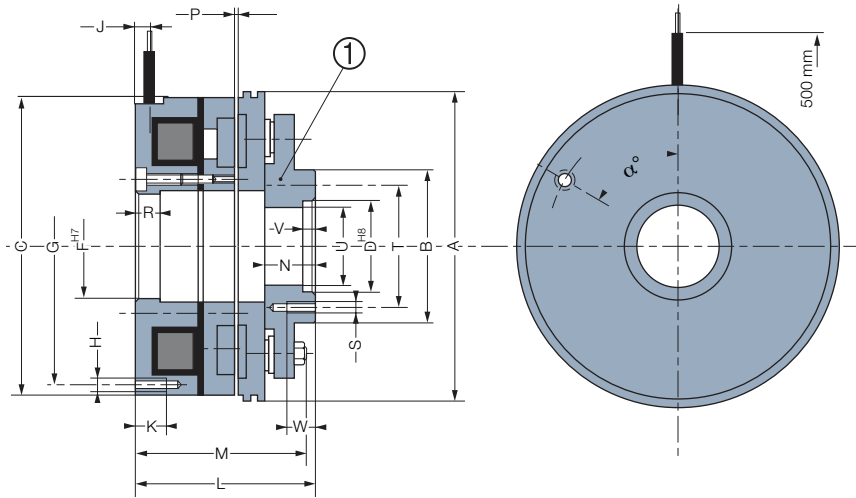


Heat Dissipation



Electro-Magnetic Single Disc Brake

Indirect Drive



Sizes		400	800	1600	3200	6400
Nom. Torque	[Nm]	400	800	1600	3200	6400
Max. Speed	[min.]	2000	1700	1500	1500	1500
Voltage	[VDC]	24	24	24	103,5	103,5
Power	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
	α°	45°	45°	45°	30°	30°
Inertia	1 [kgm ²]	0,0342	0,0736	0,2042	0,681	1,975
Weight	[kg]	17,5	29	50	95	173
Connection	Cable					

Connector Options

(Delivered without cable)

2 poles, capacity : 0,5/2,5mm²

