Service Brakes

ELECTROMAGNETIC SERVICE BRAKES

MAIN CHARACTERISTICS

- FAILSAFE BRAKE BY SPRING APPLICATION
- ELECTROMAGNETIC RELEASE
- OPENING PROVING SWITCH

OPTIONS

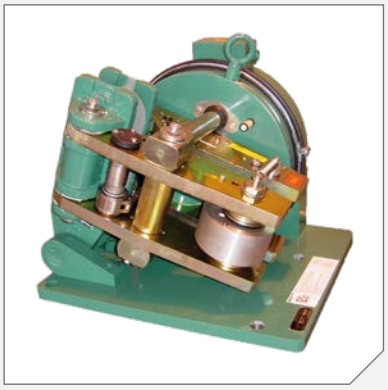
- MECHANICAL RELEASE LEVER
- HYDRAULIC RELEASE
- CLOSING PROVING SWITCH
- MANUAL RELEASE CONTROL SWITCH
- HIGH TEMPERATURE, IRON AND STEEL CONDITIONS

645-650-660

- Association with discs Ø175 to 625
- Manual wear compensation
- Option:
  Mounting on a vertical axis disc

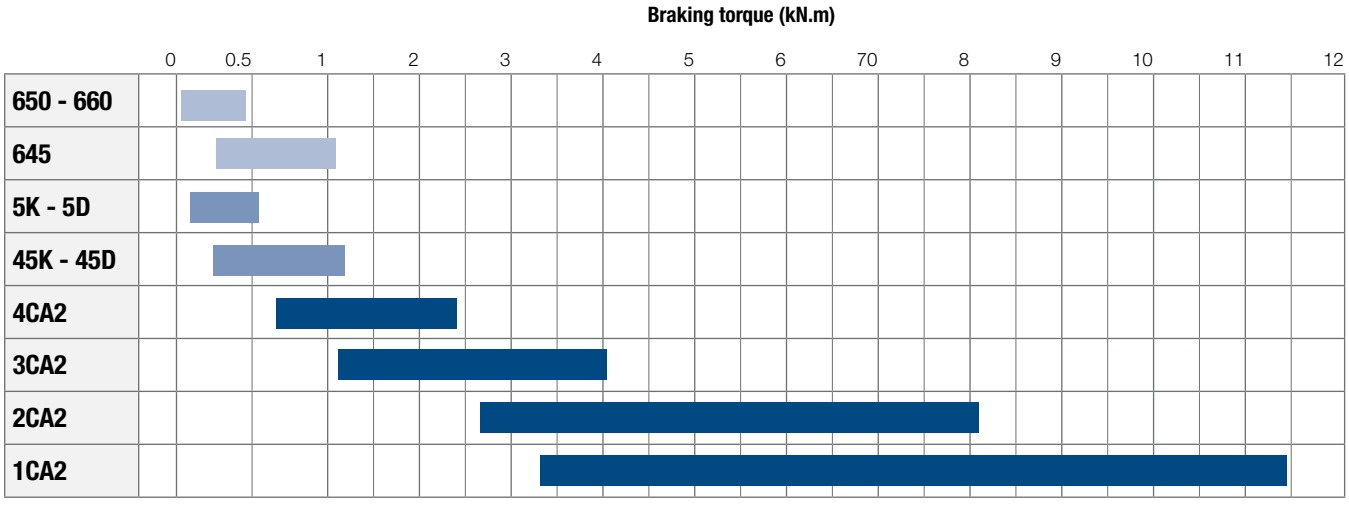
5K - 5D
45K - 45D

- Association with discs Ø315 to 625
- Automatic wear compensation
- Option:
  Mounting on a vertical axis disc



4CA2 - 3CA2
2CA2 - 1CA2

- Association with discs Ø445 to 995
- Automatic wear compensation
- Left and right hand calipers
- Option: Manual wear compensation



DISC BRAKE - 4CA2 CALIPER

Revision number: T10049-01-D **Revision date: 22.03.2016**

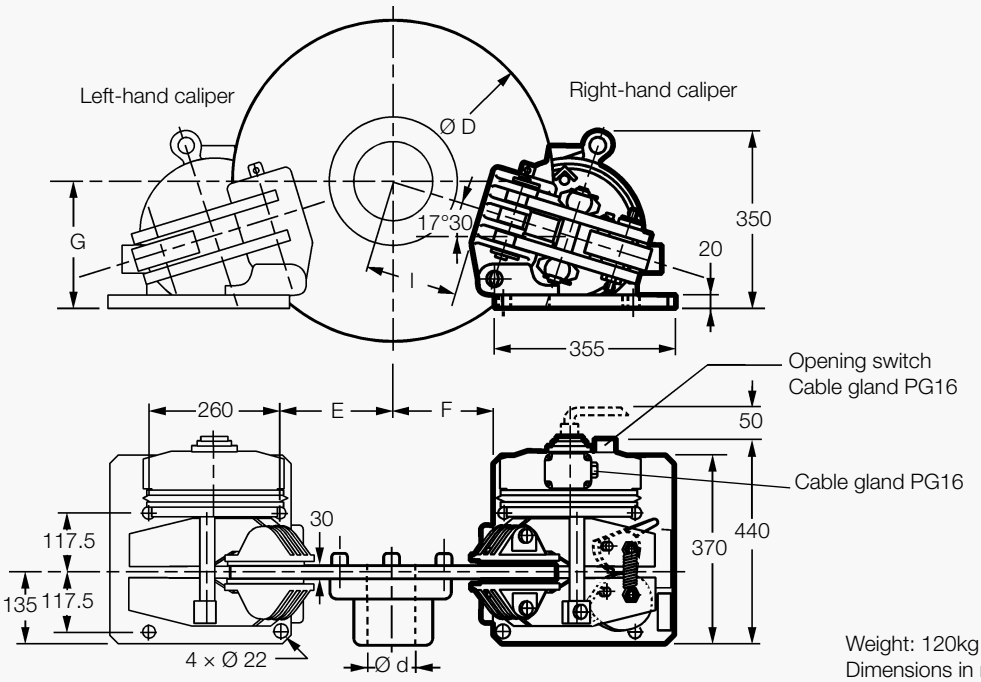
Fail safe braking
Braking by spring application
Electromagnetic release
Automatic wear compensation
Opening proving switch
Brake pads with wear indicator

Working conditions:
- Ambient température: -10°C to +60°C
- Relative humidity ≤ 70%
- Dust in atmosphere ≥ 65µ

Other conditions, consult us.

Use:
Any application up to 1000act/h

Options:
- Manual release lever
- Hydraulic release
- Manual wear compensation
- Flameproof protection
- Marine protection
- Closing proving switch
- Switch on release nut



Weight: 120kg
Dimensions in mm

Response time at nominal torque : see the leaflet of the associated electrical power supply.

Discs			445	495	550	625	705	795
Nominal torque for 1 caliper adjustable from -30 to +20%		N.m	950	1100	1270	1500	1750	2000
Maximum disc speed for nominal torque		r.p.m.	2100	1900	1800	1500	1300	1200
D		mm	445	495	550	625	705	795
d		mm	0-70	0-100	0-100	0-100	0-120	0-130
E		mm	130	160	180	215	255	295
F		mm	110	140	160	195	235	275
G		mm	225	235	240	250	260	275
I (approx. dimension)		mm	90	125	145	180	225	265
Maximum reaction on shaft	1 caliper	N	7400					
	2 calipers	N	4450					

Opening proving switch :

250VAC maxi., 5A maxi., with interrupting capacity: 50VA maxi.

220VDC maxi., 5A maxi., with interrupting capacity: 50W maxi.

Compatible with PLC (Programmable Logic Controllers). An opening switch used with other equipment than PLC must not be reused with a PLC.

Service Brakes

DISC BRAKE - 3CA2 CALIPER

Revision number: T10050-01-C **Revision date: 19.04.2016**

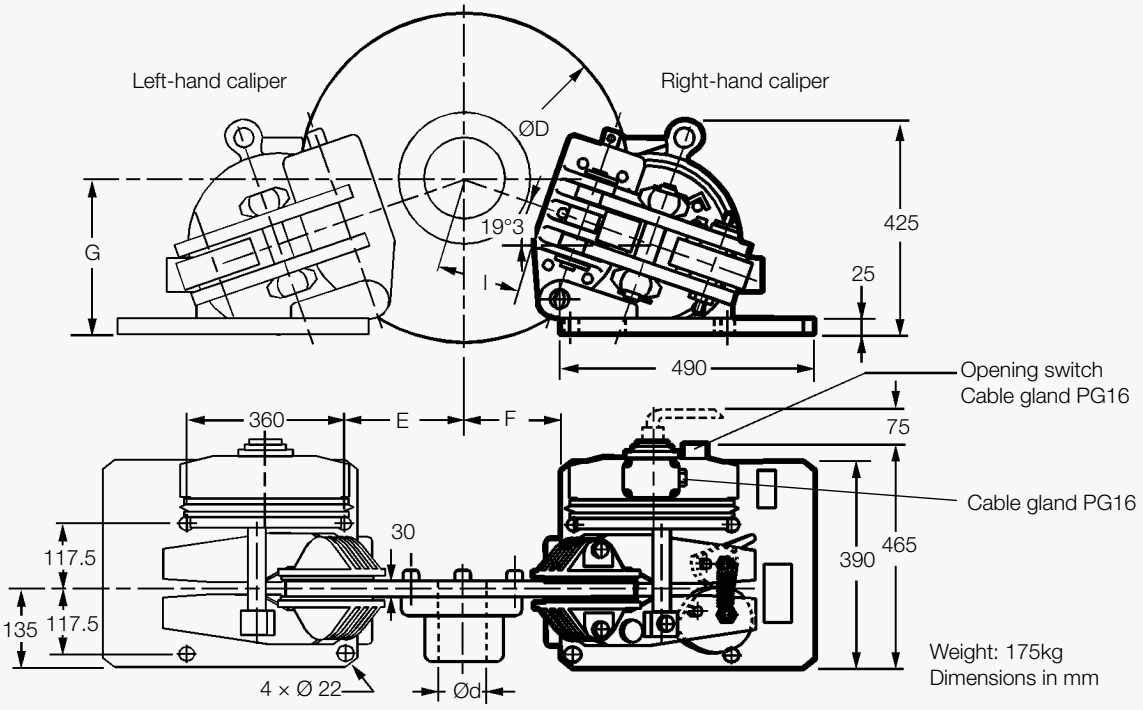
Fail safe braking
Braking by spring application
Electromagnetic release
Automatic wear compensation
Opening proving switch
Brake pads with wear indicator

Working conditions:
- Ambient température: -10°C to +60°C
- Relative humidity ≤ 70%
- Dust in atmosphere ≥ 65µ

Other conditions, consult us.

Use:
Any application up to 1000act/h

Options:
- Manual release lever
- Hydraulic release
- Manual wear compensation
- Load regulated lowering
- Flameproof protection
- Marine protection
- Closing proving switch
- Switch on release nut



Response time at nominal torque : see the leaflet of the associated electrical power supply.

Discs			445	495	550	625	705	795
Nominal torque for 1 caliper adjustable from -30 to +20%		N.m	1600	1850	2100	2500	2900	3350
Maximum disc speed for nominal torque		r.p.m.	2100	1900	1800	1500	1300	1200
D		mm	445	495	550	625	705	795
d		mm	0-70	0-100	0-100	0-100	0-120	0-130
E		mm	100	120	150	185	225	265
F		mm	80	100	130	165	205	245
G		mm	285	295	305	315	330	345
I (approx. dimension)		mm	90	115	145	180	225	265
Maximum reaction on shaft	1 caliper	N	12300					
	2 calipers	N	7400					

Opening proving switch :
250VAC maxi., 5A maxi., with interrupting capacity: 50VA maxi.
220VDC maxi., 5A maxi., with interrupting capacity: 50W maxi.

Compatible with PLC (Programmable Logic Controllers). An opening switch used with other equipment than PLC must not be reused with a PLC.

DISC BRAKE - 2CA2 AND 1CA2 CALIPERS

Revision number: T10051-01-C / T10065-01-B **Revision date: 22.03.2016 / 23.07.2012**

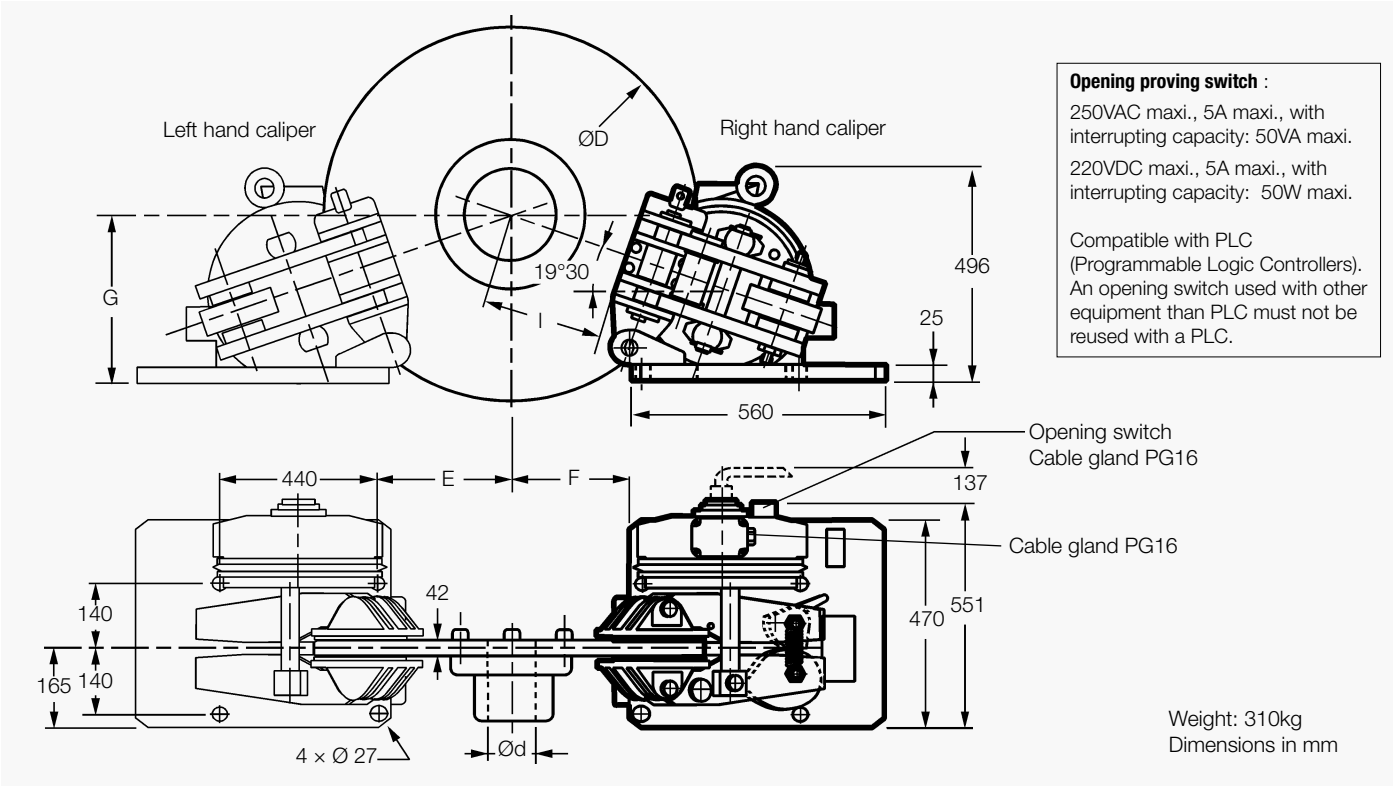
Fail safe braking
Braking by spring application
Electromagnetic release
Automatic wear compensation
Opening proving switch

Working conditions:
- Ambient température: -10°C to +60°C
- Relative humidity ≤ 70%
- Dust in atmosphere ≥ 65µ

Other conditions, consult us.

Use:
Any application up to 600act/h

Options:
- Brake pads with wear indicator
- Manual wear compensation
- Hydraulic release
- Load regulated lowering
- Flameproof protection
- Marine protection.



Opening proving switch :

250VAC maxi., 5A maxi., with interrupting capacity: 50VA maxi.

220VDC maxi., 5A maxi., with interrupting capacity: 50W maxi.

Compatible with PLC (Programmable Logic Controllers). An opening switch used with other equipment than PLC must not be reused with a PLC.

Weight: 310kg
Dimensions in mm

Discs		625	795	995
D	mm	625	795	995
d	mm	40-140	40-180	40-180
E	mm	157	250	345
F	mm	127	220	315
G	mm	353	385	415
l (approx. dimension)	mm	174	268	368

Response time at nominal torque : see the leaflet of the associated electrical power supply.

Discs			625	795	995
2CA2					
Nominal torque for 1 caliper adjustable from -30 to +20%		N.m	3 800	5 150	6 700
Maximum disc speed for nominal torque		r.p.m.	1 500	1 200	900
Maximum reaction on shaft	1 caliper	N	18 600		
	2 calipers	N	12 600		

Discs			625	795	995
1CA2					
Nominal torque for 1 caliper adjustable from -50 to 100%		N.m	6 610	8 800	11 370
Maximum disc speed for nominal torque		r.p.m.	310	250	200
Maximum reaction on shaft	1 caliper	N	25 700		
	2 calipers	N	16 300		