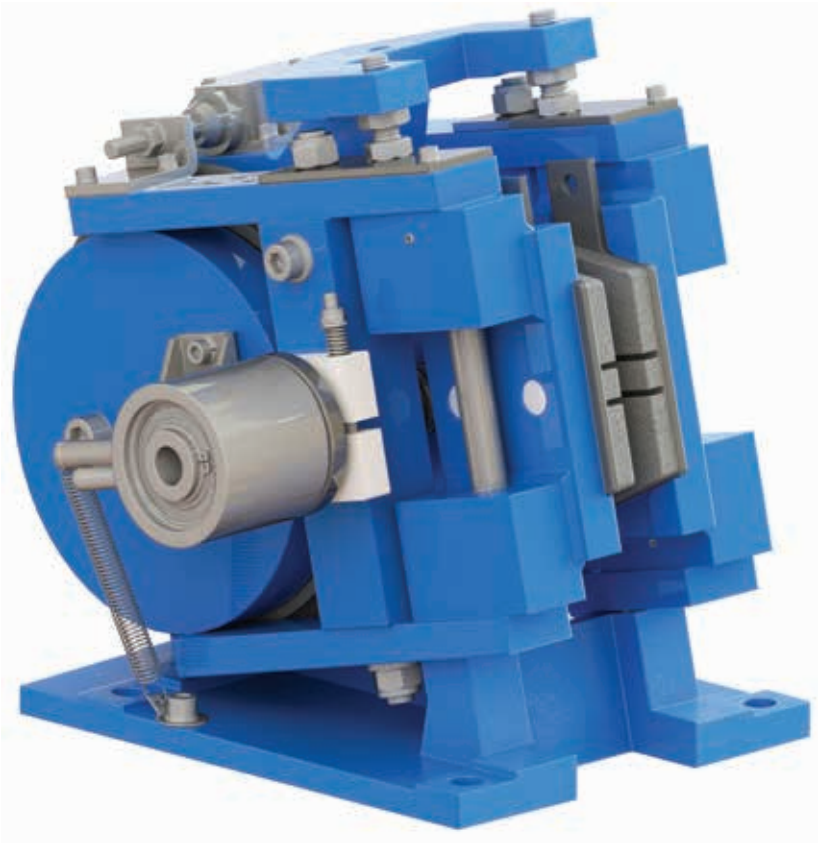
Industrial **brakes**

Electromagnetic Disc Brakes

antec®

Reliability is a must.

GENERAL DESCRIPTION

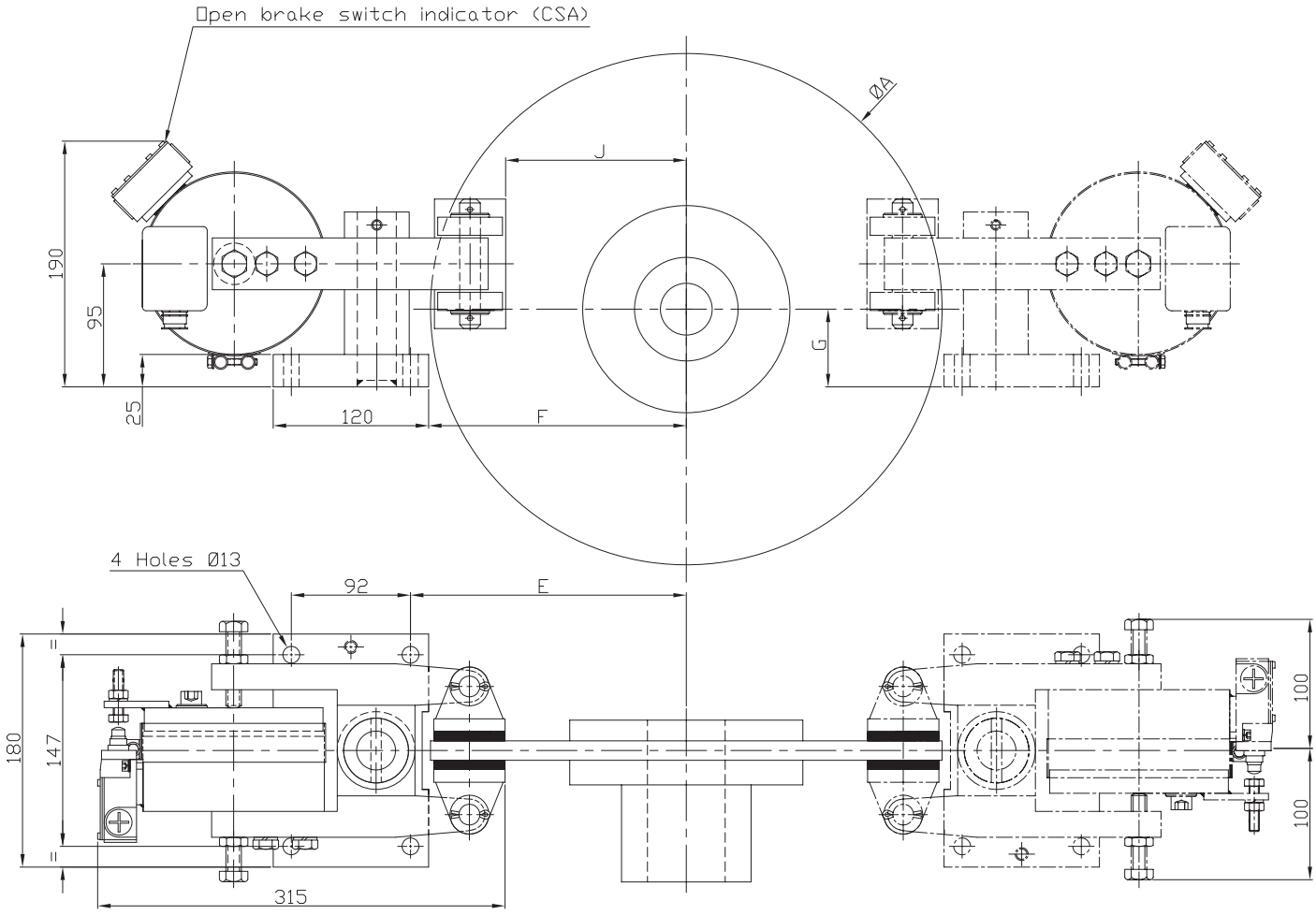


The electromagnetic disc brake type E and S are fail safe spring applied, power released disc brakes. Brake release is achieved by D.C. operated electromagnet. The E model is used as service brake and the S model as safety brake.

Antec supplies the electric power units suitable for rectifying and modulating electric current and providing impulse and economy power to activate the brake.

Model: 54E RA +CSA

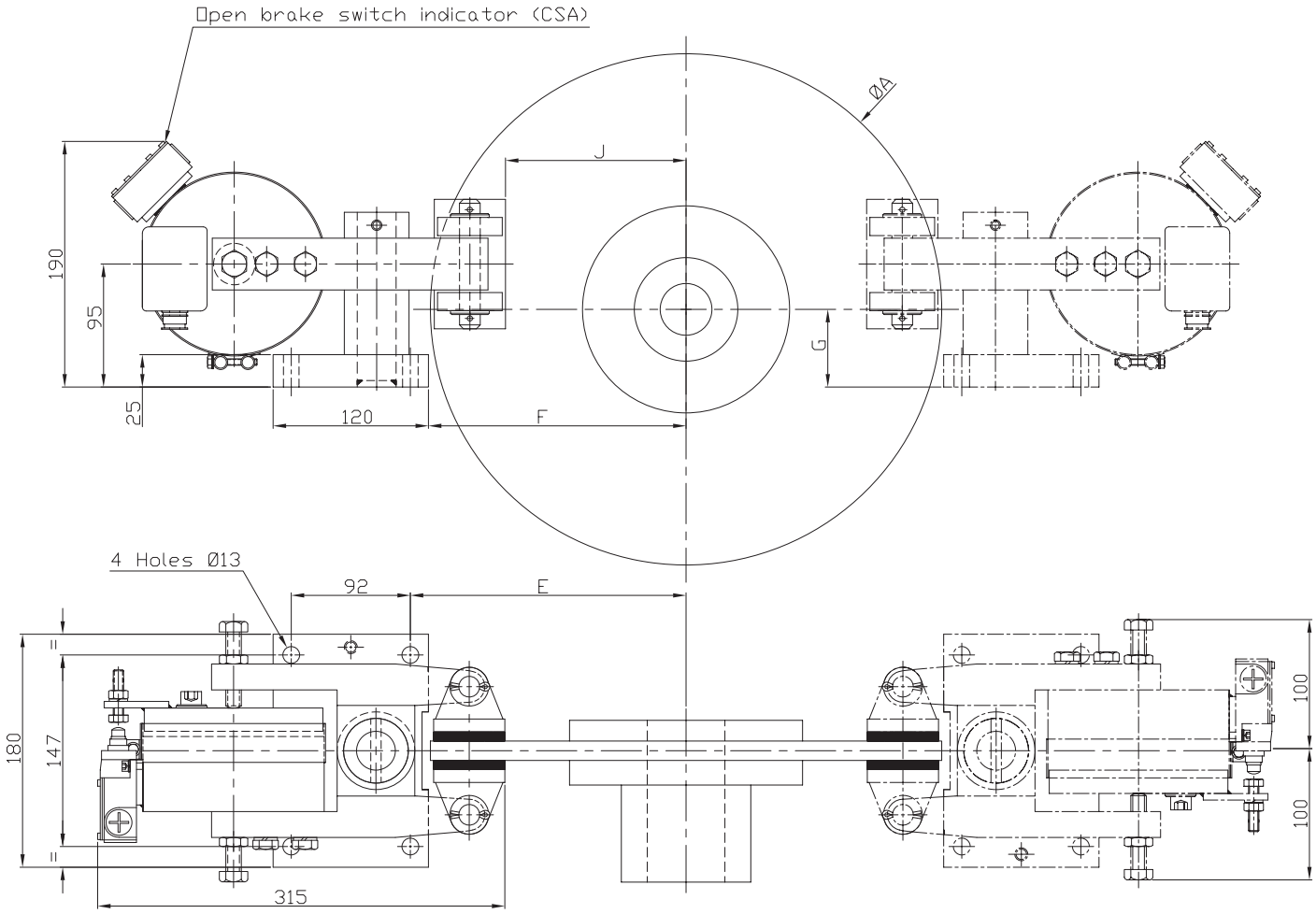
66E



Disc size [mm]	Dimensions [mm]				Braking torque [Nm]		Reaction in the shaft [N]		Weight [kg]
Ø A	E	F	G	J	1 brake	2 brakes	1 brake	2 brakes	
175	118	104	85	40	65	130	895	125	
220	128	114	85	50	75	150	895	110	
260	143	129	85	65	85	170	895	90	
315	173	159	75	95	115	230	895	140	
355	192	178	70	115	135	270	895	150	18
395	213	199	60	135	155	310	895	185	
445	238	224	50	160	175	350	895	205	
495	263	249	45	185	200	400	895	200	
550	293	279	45	215	225	450	895	180	
625	328	314	25	250	260	520	895	215	

Friction coefficient μ=0,4. Dimension values are in mm.

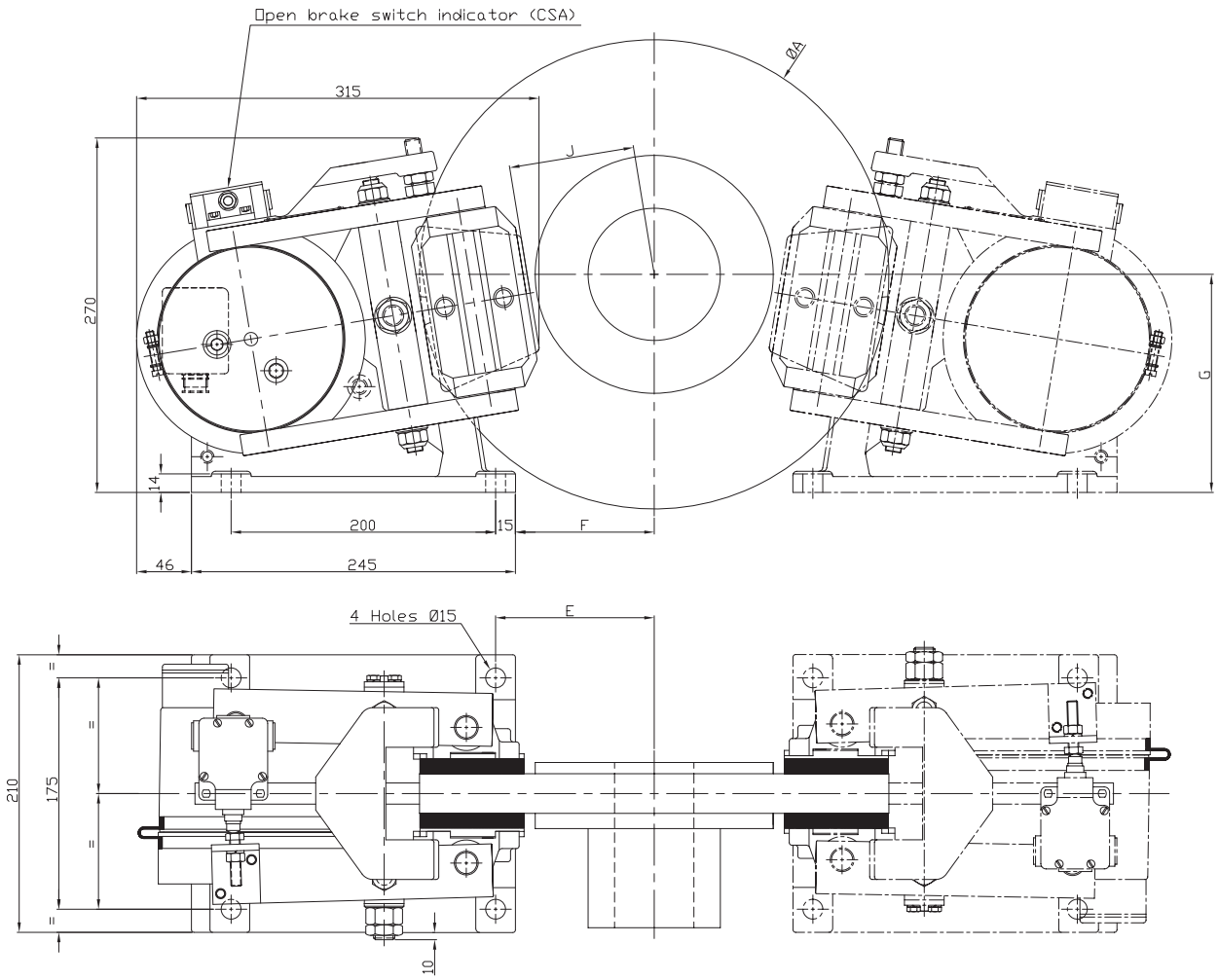
65E



Disc size [mm]	Dimensions [mm]				Braking torque (Nm)		Reaction in the shaft [N]		Weight [kg]
Ø A	E	F	G	J	1 brake	2 brakes	1 brake	2 brakes	
175	118	104	85	40	145	290	1975	270	
220	122	108	85	50	165	330	1975	240	
260	143	129	85	65	195	390	1975	205	
315	173	159	75	95	255	510	1975	305	
355	192	178	70	115	295	590	1975	335	
395	213	199	60	135	340	680	1975	405	18
445	238	224	50	160	390	780	1975	450	
495	263	249	45	185	440	880	1975	445	
550	293	279	45	215	500	1000	1975	390	
625	328	314	25	250	575	1150	1975	475	

Friction coefficient μ=0,4. Dimension values are in mm.

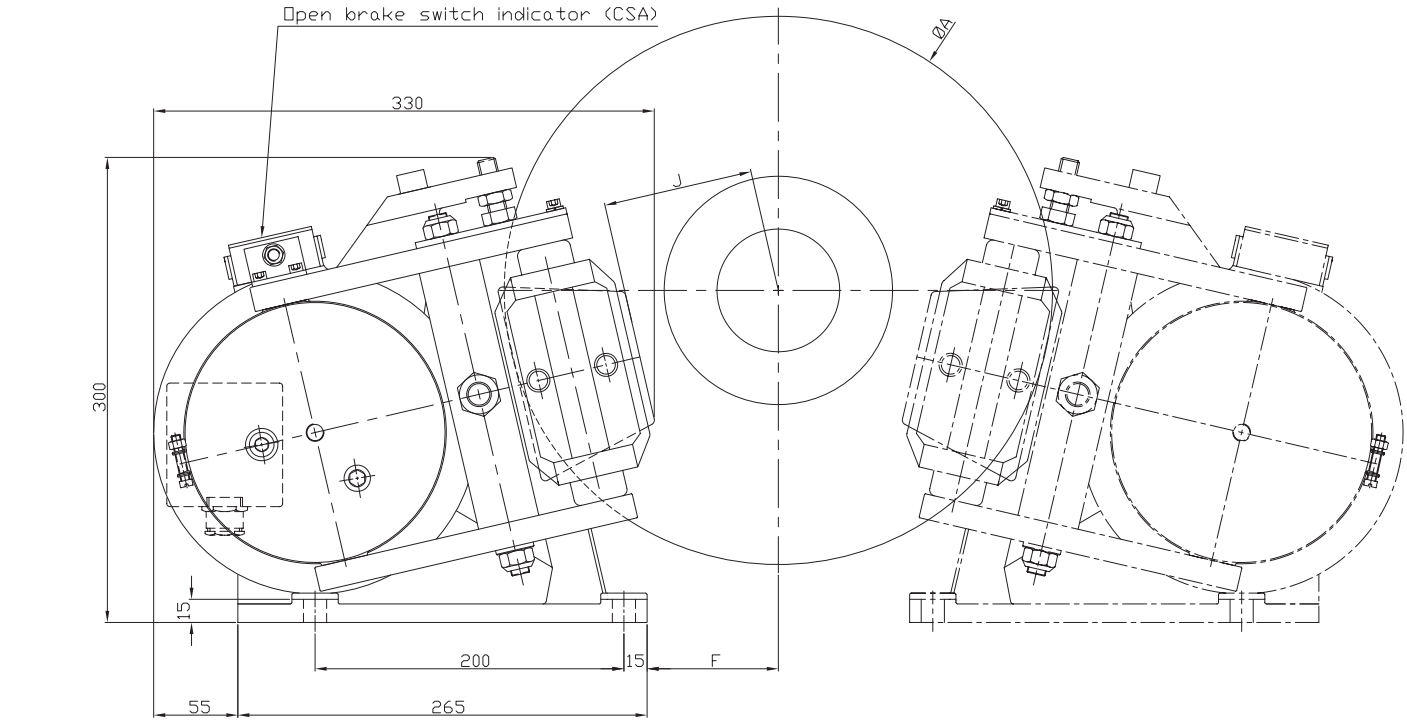
5E

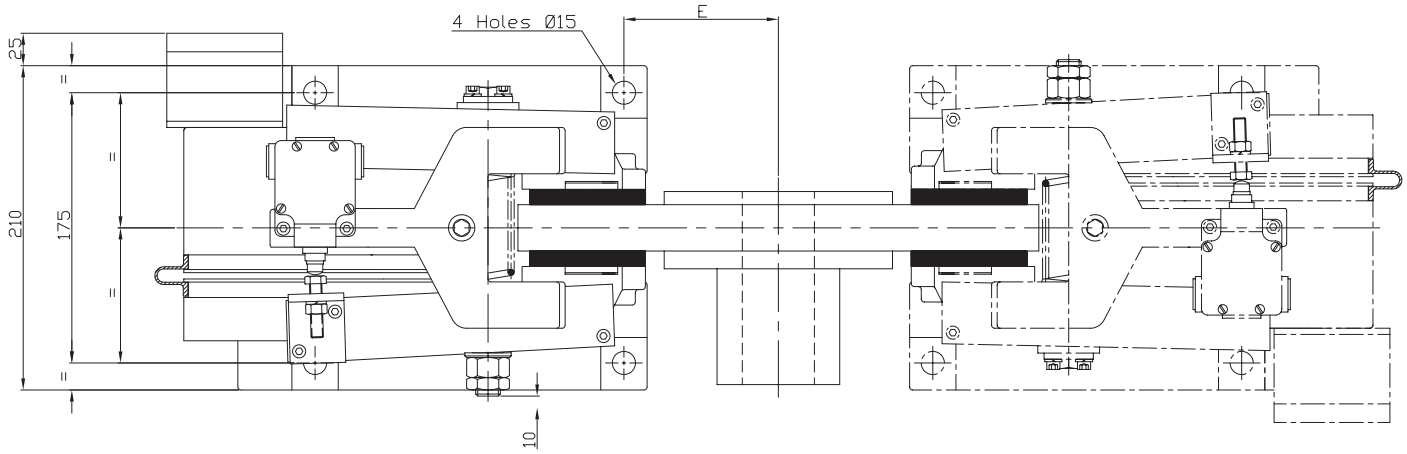


Disc size [mm]	Dimensions [mm]				Braking torque [Nm]		Reaction in the shaft [N]		Weight [kg]
Ø A	E	F	G	J	1 brake	2 brakes	1 brake	2 brakes	
200	60	45	155	25	150	300	2050	660	
220	62	47	155	30	155	310	2050	640	
240	72	57	157	40	175	350	2050	660	
260	78	63	157	45	190	380	2050	620	
280	87	72	160	55	205	410	2050	680	
315	100	85	160	65	230	460	2050	610	35
355	120	105	165	85	276	552	2050	670	
395	140	125	170	105	318	636	2050	710	
445	160	145	180	130	362	724	2050	850	
495	190	175	185	160	424	848	2050	830	
550	220	205	195	190	488	976	2050	890	
625	255	240	205	230	563	1126	2050	920	

Friction coefficient μ=0,4. Dimension values are in mm.

54E

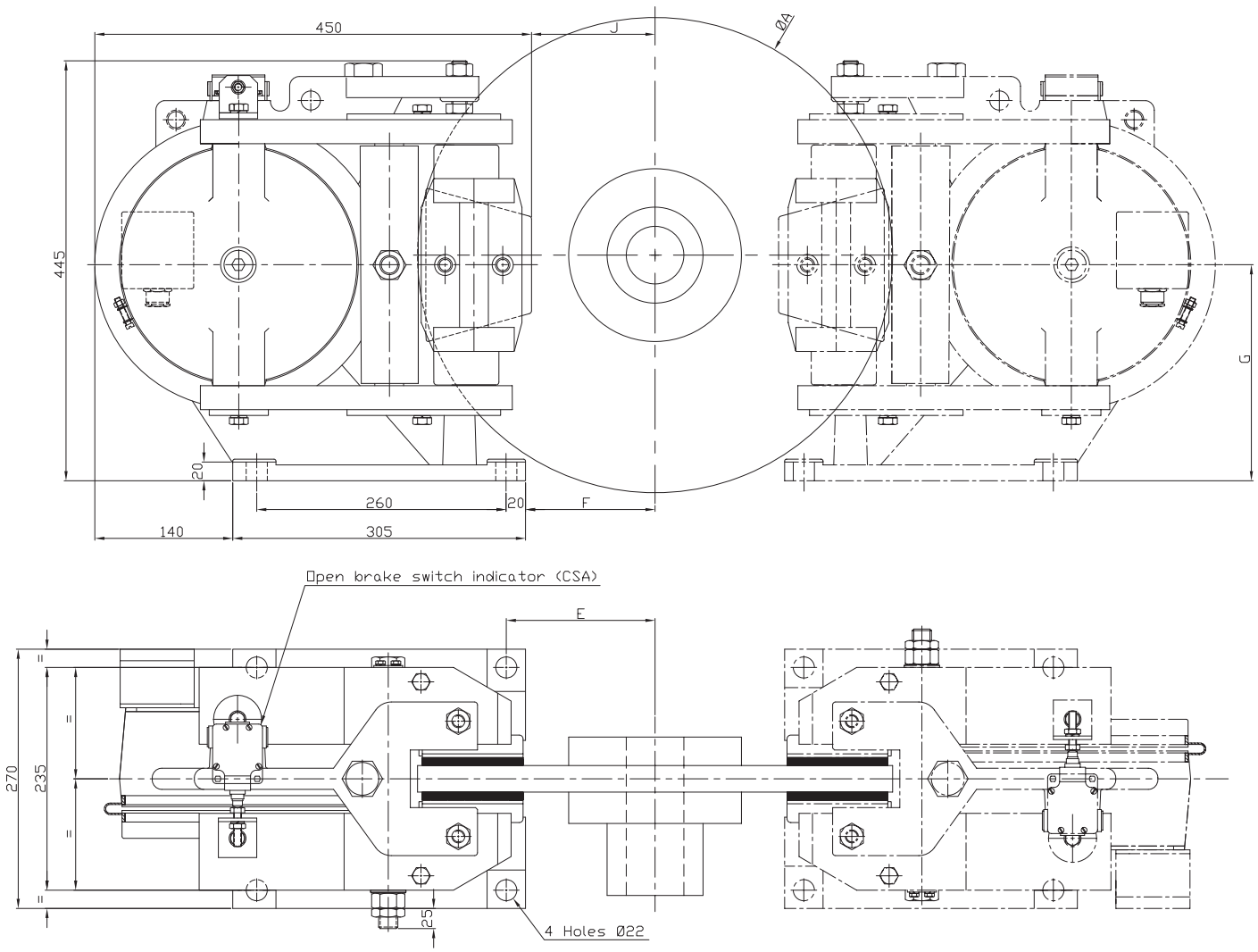




Disc size [mm]	Dimensions [mm]				Braking torque [Nm]		Reaction in the shaft [N]		Weight [kg]
Ø A	E	F	G	J	1 brake	2 brakes	1 brake	2 brakes	
315	80	65	210	70	490	980	4090	3250	
355	100	85	215	95	570	1140	4090	3070	
395	120	105	220	115	650	1300	4090	2940	
445	145	130	225	140	760	1520	4090	2760	
495	170	155	230	165	760	1520	4090	2630	46
550	195	180	240	190	970	1940	4090	2670	
625	230	215	250	225	1120	2240	4090	2620	
795	314	299	260	310	1460	2920	4090	2240	

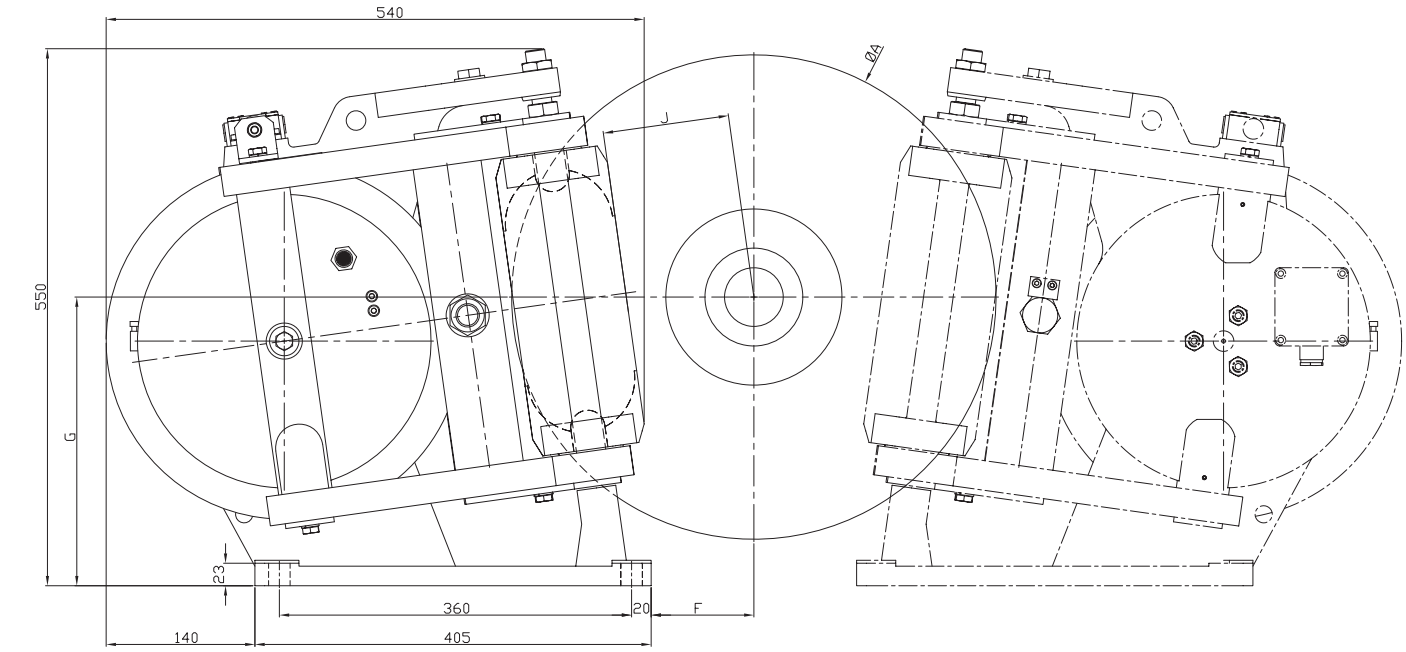
Friction coefficient μ=0,4. Dimension values are in mm.

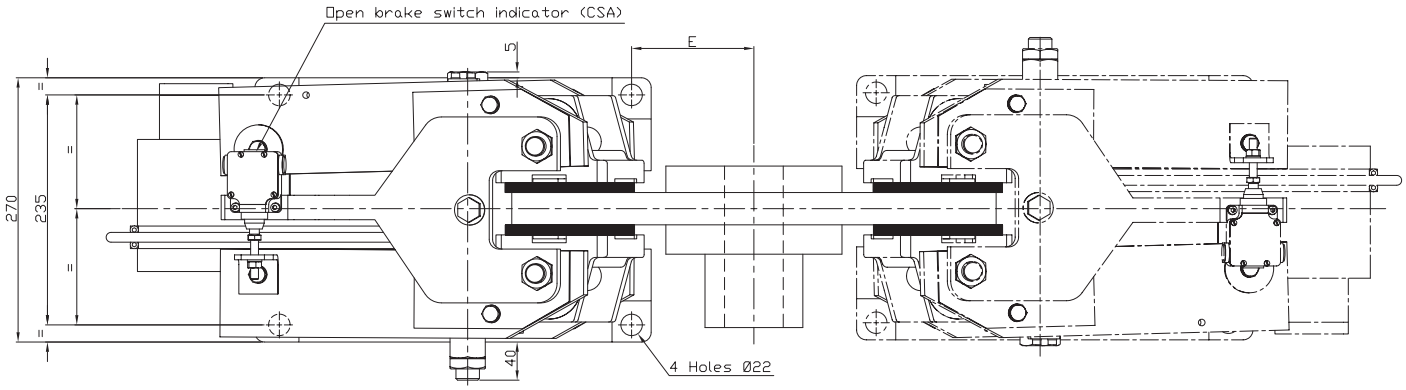
4E



Disc size [mm]	Dimensions [mm]				Braking torque [Nm]		Reaction in the shaft [N]		Weight [kg]
Ø A	E	F	G	J	1 brake	2 brakes	1 brake	2 brakes	
445	130	110	225	100	1350	2700	8230	0	110
495	155	135	235	125	1560	3120	8230	870	
550	180	160	240	150	1770	3540	8230	1150	
625	215	195	250	185	2060	4120	8230	1640	
705	255	235	260	225	2400	4800	8230	1980	
795	295	275	275	265	2740	5480	8230	2470	

Friction coefficient μ=0,4. Dimension values are in mm.

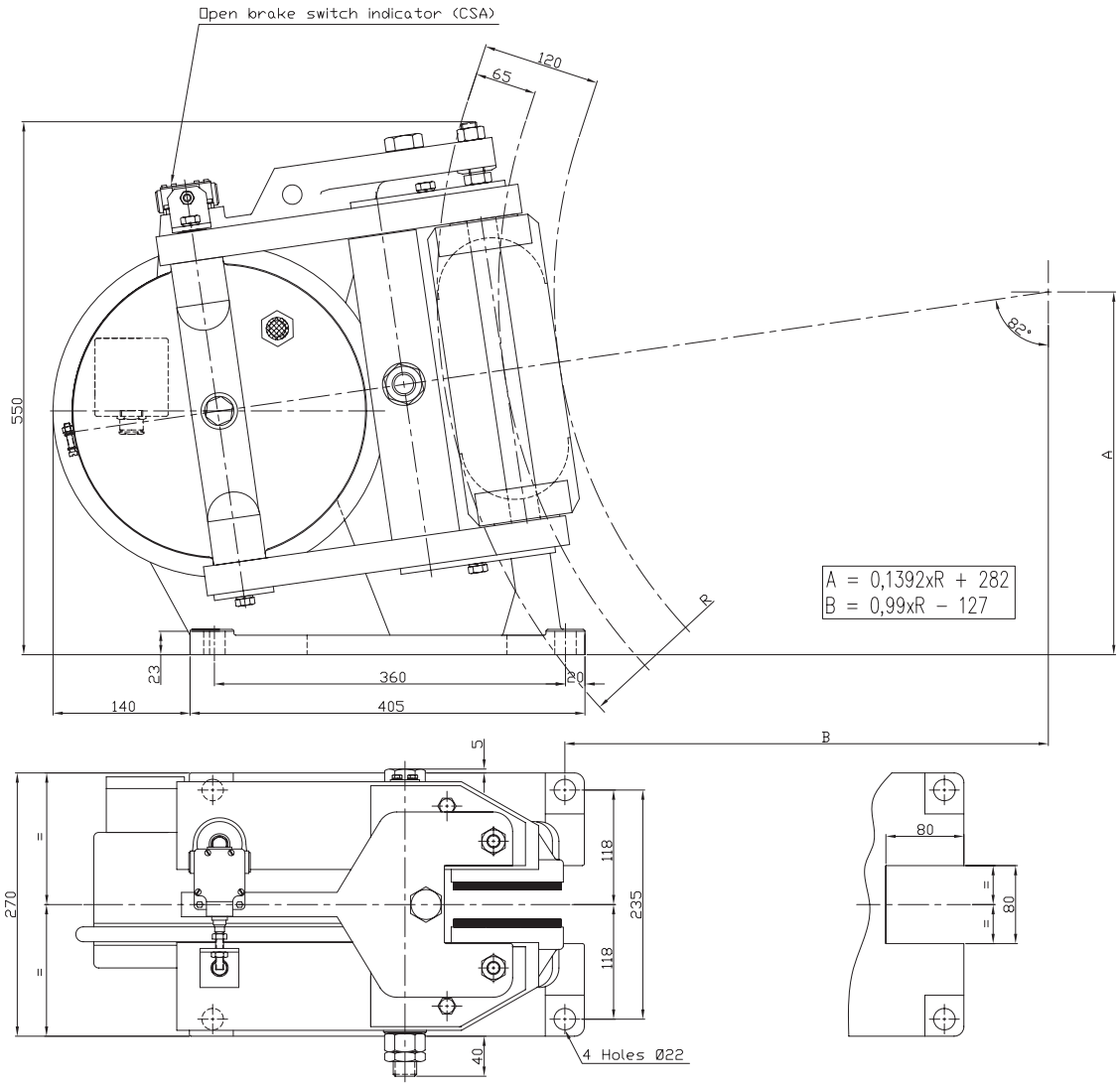




Disc size [mm]	Dimensions [mm]				Braking torque (Nm)		Reaction in the shaft [N]		Weight [kg]
Ø A	E	F	G	J	1 brake	2 brakes	1 brake	2 brakes	
445	100	80	285	100	2480	4960	15250	1130	
495	125	105	295	125	2860	5720	15250	640	
550	150	130	305	150	3250	6500	15250	2000	
625	185	165	315	185	3790	7580	15250	2940	165
705	225	205	330	230	4420	8840	15250	4090	
795	265	245	345	270	5060	10120	15250	4950	
995	370	350	340	375	6640	13280	15250	3430	

Friction coefficient μ=0,4. Dimension values are in mm.

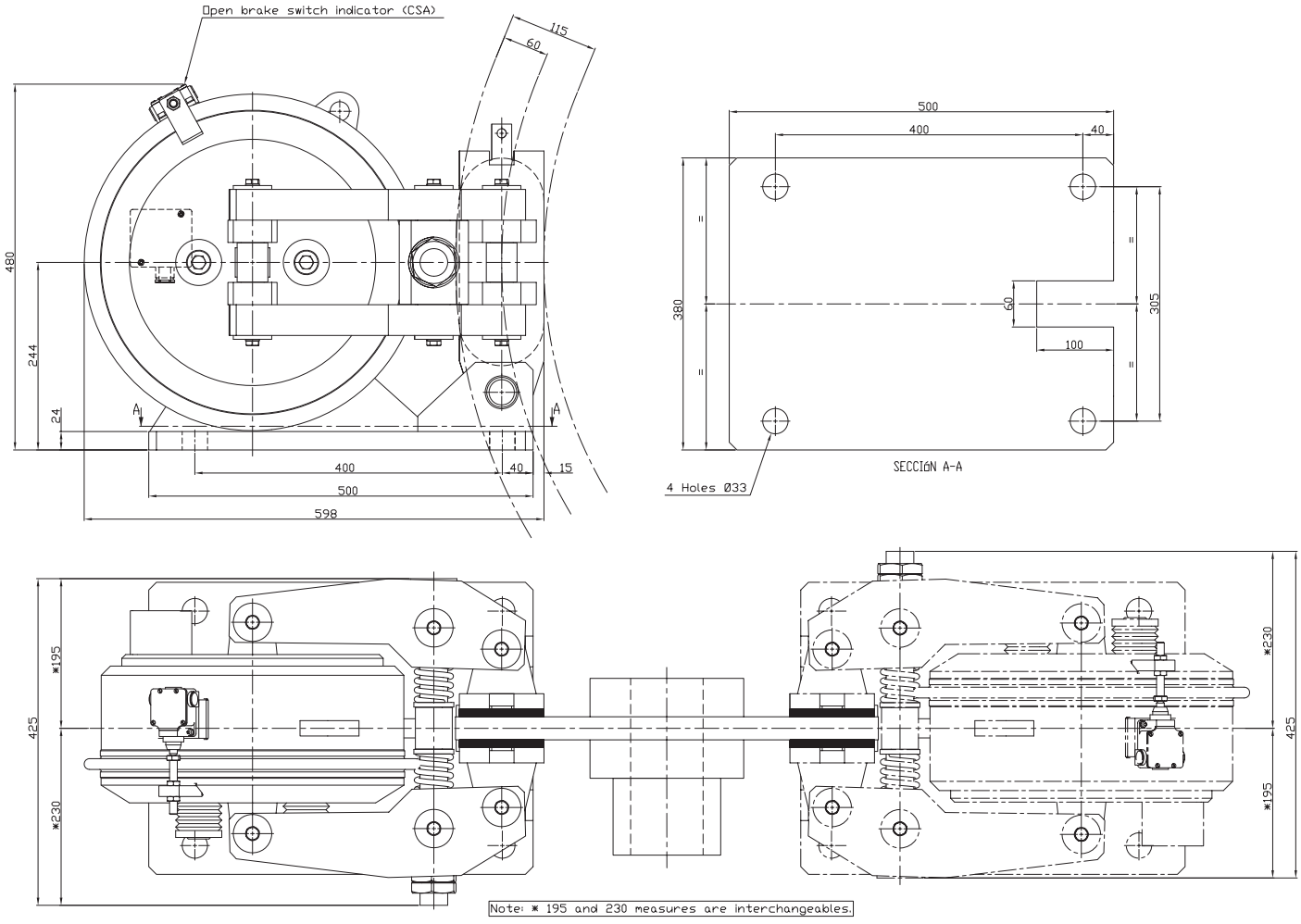
S2



Disc Ø [mm]	Disc Thickness [mm]	Dimensions [mm]		Braking Force [N]	Braking Torque [Nm]	Power Impulse [W]	Economy [W]	Maximum Lineal Speed of the Disc [m/s]	Weight [kg]	Reaction Time [s]	
		A	B							Release	Brake
445	30	313,0	93,3	20000	3150	3000	80	30	165	0,6	0,1
495		316,5	118,0		3650						
550		320,3	145,3		4200						
625		325,5	182,4		4950						
705		331,1	222,0		5750						
795		337,3	266,5		6650						
995		351,3	365,5		8650						

Friction coefficient μ=0,4. Dimension values are in mm.

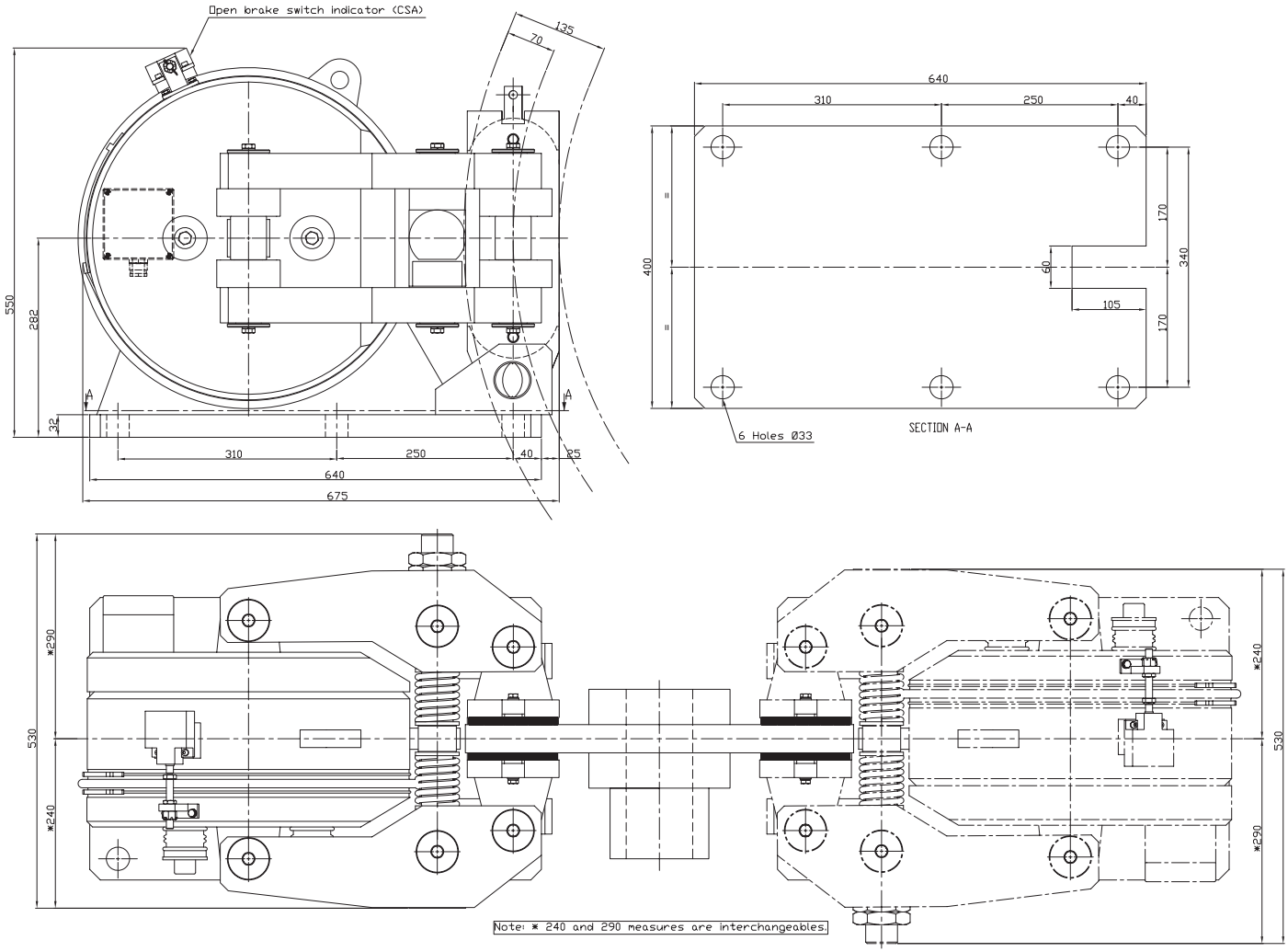
S-1T



Disc Ø [mm]	Disc Thickness [mm]	Braking Force [N]		Braking Torque [Nm]		Power Impulse [W]	Economy [W]	Maximum Lineal Speed of the Disc [m/s]	Weight [kg]	Reaction Time [s]	
		1 brake	2 brakes	1 brake	2 brakes					Release	Brake
445	30	49000	98000	7962,5	15925	5000	200	30	208	0,8	0,2
495				9187,5	18375						
550				10535	21070						
625				12372,5	24745						
705				14332,5	28665						
795				16537,5	33075						
995				21437,5	42875						

Friction coefficient μ=0,4. Dimension values are in mm.

S-0T



Disc Ø [mm]	Disc Thickness [mm]	Braking Force [N]		Braking Torque [Nm]		Power Impulse [W]	Economy [W]	Maximum Lineal Speed of the Disc [m/s]	Weight [kg]	Reaction Time [s]	
		1 brake	2 brakes	1 brake	2 brakes					Release	Brake
445	30	90000	180000	13725	27450	7000	300	30	500	0,8	0,2
495				15975	31950						
550				18450	36900						
625				21825	43650						
705				25425	50850						
795				29475	58950						
995				38475	76950						

Friction coefficient μ=0,4. Dimension values are in mm.

CONTROL UNITS: BEC-3 AND BEP-3

DESCRIPTION AND OPERATION

- A power supply suitable for rectifying and modulating electric current and providing sufficient pulse and economy power to activate the calipers.
- Instant caliper drop and braking.
- Available in two versions: unprotected, on an IP-00 mounting plate (BEP), or presented in an IP-66 protective cabinet (BEC).

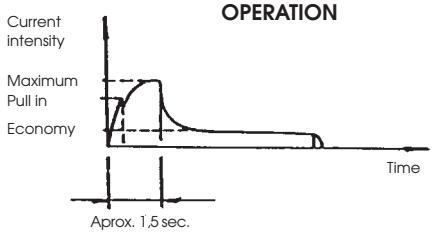
CHARACTERISTICS

- Single phase connection voltage: Normal 220 / 380 / 400 / 420 / 440 / 460 / 480 V. (50 or 60 Hz).
- Other voltages and frecuencies upon request.
- Ambient temperature range: (-20°C ÷ +60°C).

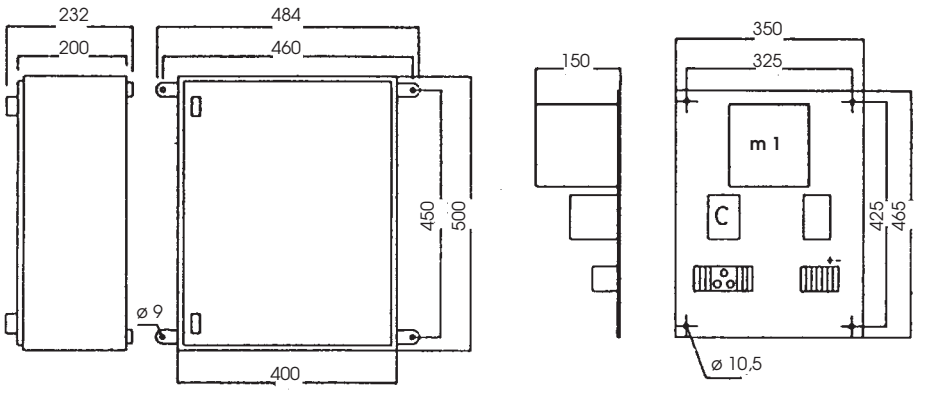
OPTIONS

- Temperature control.
- Voltage indicators.

OPERATION



SIZE, WEIGHT AND PROTECTION



BEC-3
WEIGHT 20 kg.
PROTECTION IP-66

BEP-3
WEIGHT 13,5 kg.
PROTECTION IP-00

APPLICATIONS

Calipers type	Calipers quantity	Max. cycles/hour	Power (w)		Caliper supply cable resistance (Ω)	Primary fuses	
			Impulse	Economy		220 V.	380 V.
65 E or 5 E	1 2	1500 1000	900 1800	30 60	0,2 0,2	6 A. 6 A.	4 A. 4 A.
54 E OR 4 E	1 2	1000 500	1200 2400	40 80	0,1 0,1	10 A. 10 A.	6 A. 6 A.

CONTROL UNITS: BEC-2 AND BEP-2

DESCRIPTION AND OPERATION

• A power supply suitable for rectifying and modulating electric current and providing sufficient pulse and economy power to activate the calipers.

• Instant caliper drop and braking.

• Available in two versions: unprotected, on an IP-00 mounting plate (BEP), or presented in an IP-66 protective cabinet (BEC).

CHARACTERISTICS

• Single phase connection voltage: Normal 220 / 380 / 400 / 420 / 440 / 460 / 480 V (50 or 60 Hz).

• Other voltages and frecuencies upon request.

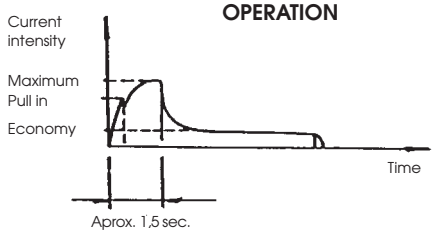
• Ambient temperature range: (-20°C ÷ +60°C).

OPTIONS

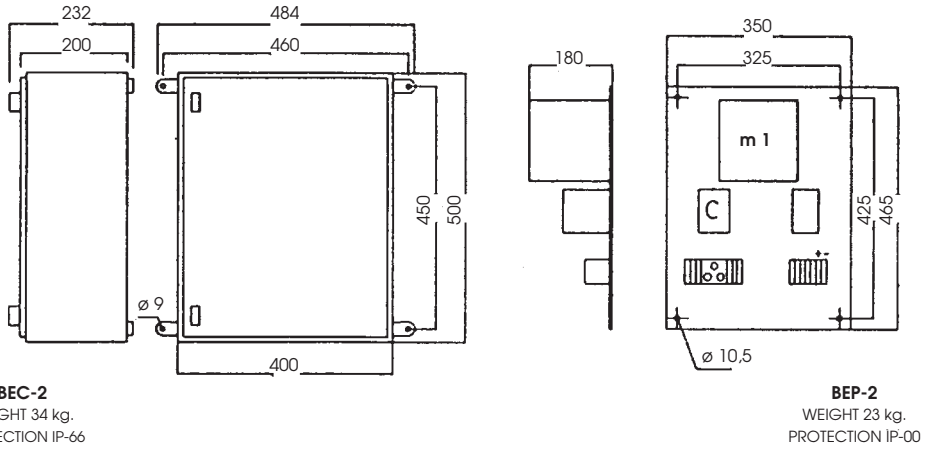
• Temperature control.

• Voltage indicators.

OPERATION



SIZE, WEIGHT AND PROTECTION



BEC-2
WEIGHT 34 kg.
PROTECTION IP-66

BEP-2
WEIGHT 23 kg.
PROTECTION IP-00

APPLICATIONS

Calipers type	Calipers quantity	Max. cycles/hour	Power (w)		Caliper supply cable resistance (Ω)	Primary fuses	
			Impulse	Economy		220 V.	380 V.
54 E or 4 E	1 2	1200 1000	1200 2400	40 80	0,1 0,1	10 A. 10 A.	6 A. 6 A.
3 E OR S2	1 2	750 360	3000 6000	80 160	0,1 0,05	16 A. 25 A.	10 A. 16 A.
S1 T	1	360	5000	160	0,05	25 A.	16 A.

CONTROL UNITS: BEC-1 AND BEP-1

DESCRIPTION AND OPERATION

- A power supply suitable for rectifying and modulating electric current and providing sufficient pulse and economy power to activate the calipers.
- Instant caliper drop and braking.
- Available in two versions: unprotected, on an IP-00 mounting plate (BEP), or presented in an IP-66 protective cabinet (BEC).

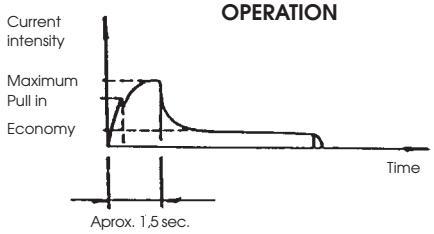
CHARACTERISTICS

- Single phase connection voltage: Normal 220 / 380 / 400 / 420 / 440 / 460 / 480 V (50 or 60 Hz).
- Other voltages and frecuencies upon request.
- Ambient temperature range: (-20°C ÷ +60°C).

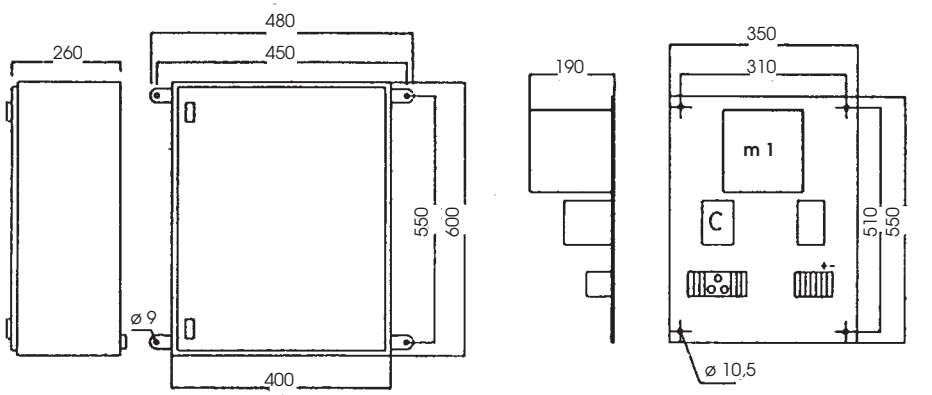
OPTIONS

- Temperature control.
- Voltage indicators.

OPERATION



SIZE, WEIGHT AND PROTECTION



BEC-1
WEIGHT 42 kg.
PROTECTION IP-66

BEP-1
WEIGHT 31 kg.
PROTECTION IP-00

APPLICATIONS

Calipers type	Calipers quantity	Max. cycles/hour	Power (w)		Caliper supply cable resistance (Ω)	Primary fuses	
			Impulse	Economy		220 V.	380 V.
S0 T	1 2	300 150	7000 14000	300 600	0,1 0,05	40 A. 63 A.	20 A. 40 A.

CONTROL UNITS: AP-6 AND AC-6

DESCRIPTION AND OPERATION

• A power supply suitable for rectifying and modulating electric current and providing sufficient pulse and economy power to activate the 66 E calipers (AC).

• Instant caliper drop and braking.

• Available in two versions: unprotected, on an IP-00 mounting plate (AP), or presented in an IP-66 protective cabinet (AC).

CHARACTERISTICS

• Single phase connection voltage: Normal 220 / 380 / 400 / 420 / 440 / 460 / 480 V. (50 or 60 Hz).

• Other voltages and frecuencies upon request.

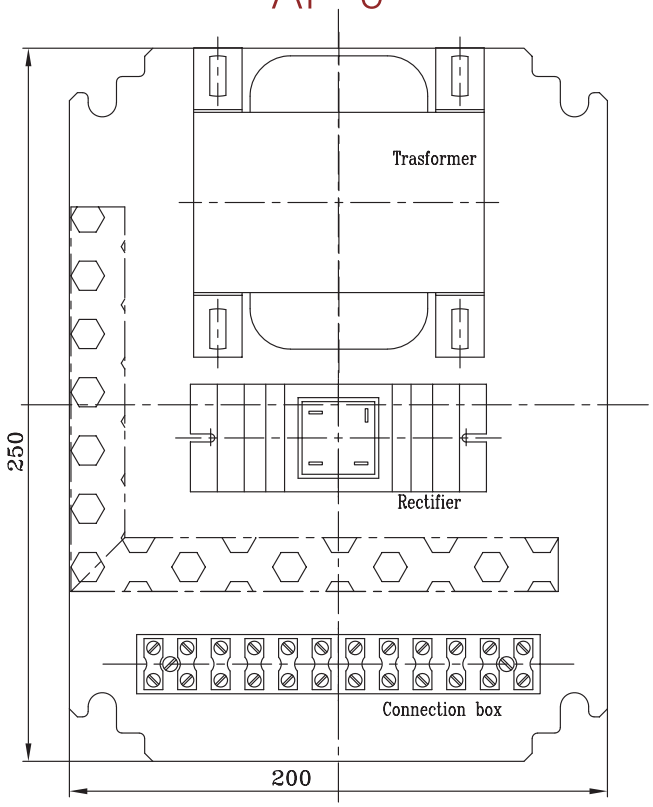
• Ambient temperature range: (-20°C ÷ +60°C).

OPTIONS

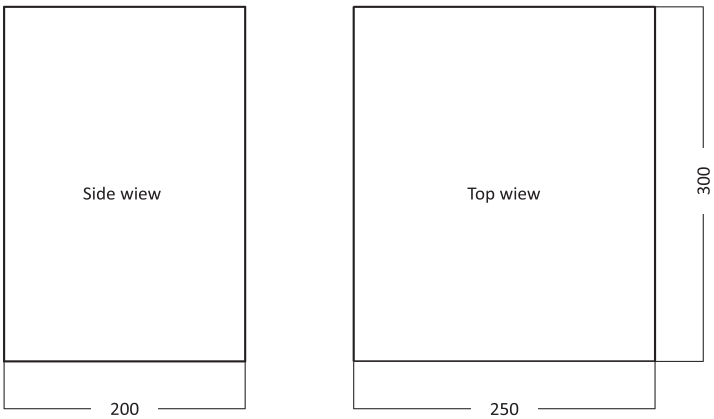
• Temperature control.

• Voltage indicators.

AP-6

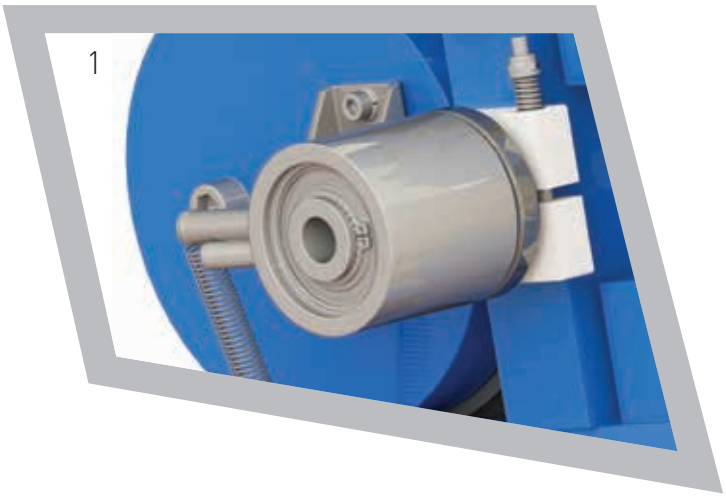


AC-6



Calipers type	Calipers quantity	Max. cycles/hour	Power (w)	Caliper supply cable resistance (Ω)	Primary fuses	
					220 V.	380 V.
66 E	1 2	2000	200 380	0,5	2,5 A.	1,5 A.

OPTIONS



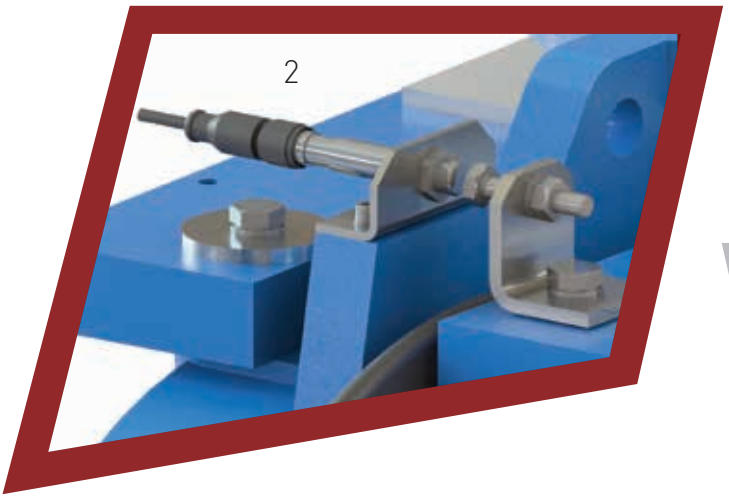
1. Automatic lining wear adjustment (RA).

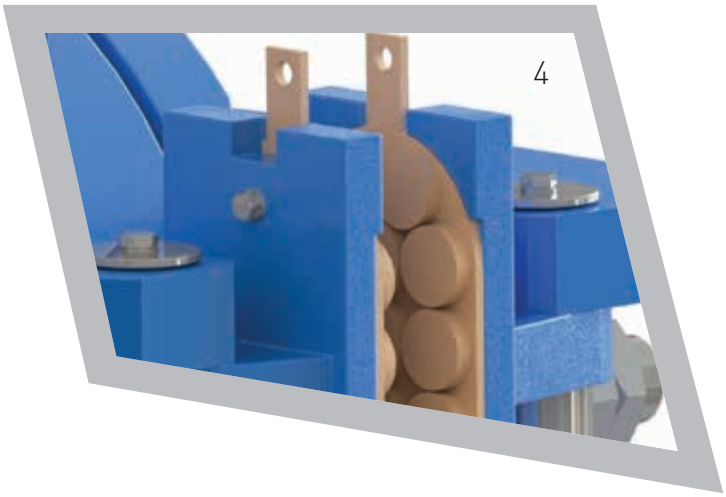
2. Mechanical or inductive open switch indicator (CSA).

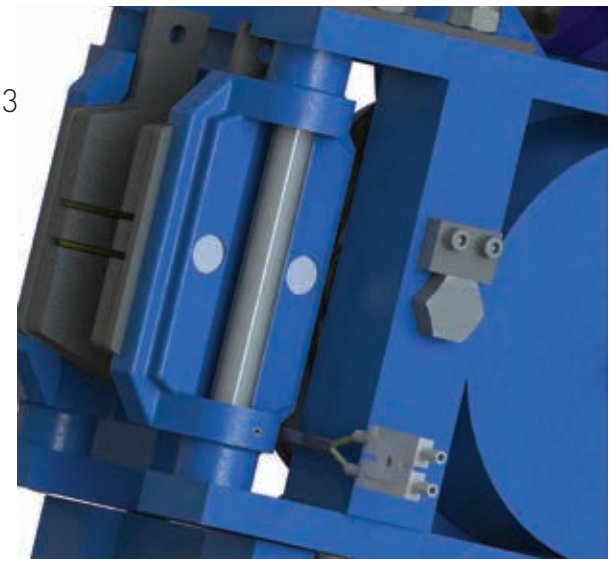
3. Cable or inductive lining wear indicator (DD).

4. Sintered metal brake linings (GS).

5. Special paint (PE).







For further information about options, please contact the Antec Sales Department (sales@antecsa.com)

antec®
Reliability is a must.

ANTEC SPAIN (Headquarters)
Aplicación Nuevas Tecnologías Antec SAU.

Ramón y Cajal, 74. 48920.
Portugalete. (Vizcaya) SPAIN

Tel.: +34 94 4965011
Fax: +34 94 4965337

sales@antecsa.com
antec-group.com

ANTEC CHINA
Antec Braking Systems Co. Ltd.

No.4, Longhuai Road,
Shuangjiang Dao South
Beichen Development Area
300400 Tianjin, CHINA.

Tel.: +86 22 26983272
Fax: +86 22 26983273

info@antec-bs.com
antec-group.com

ANTEC BRAZIL
Antec Eolica Fabricaçao e Comercio
de Freios Ltda.

Rua do Bronze (Antiga Rua H) S/N,
Quadra 43, Lote 080,
Polo de Apoio Camaçari,
Bahia CEP: 42801-170, BRAZIL.

Tel.: +55 71 36229316

info@anteceolica.com
antec-group.com