BRAKING CHOPPER CHT

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About Us

FOUNDED IN 1975, SECOM IS A LEADING COMPANY FOR THE DISTRIBUTION AND PRODUCTION OF COMPONENTS AND DEVICES FOR POWER ELECTRONICS

SECOM continuously carries out new research and technical proposal in conjunction with important clients, providing technical support to meet their specific needs.

Production excellence and efficient organization allow SECOM to commit itself to providing to the market with timely and professional service in numerous sectors of static energy conversion.

Flexibility and short delivery time have become pillars to SECOM's company policy.

WHO WE ARE

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Over the years the company has become an important designer and manufacturer of power electronic devices for industrial automation manufacturing technologies

WHAT WE DO



SECOM studies and manufactures customized solutions on behalf of its customers.

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CHT

OVERVIEW

The **CHT braking chopper** is designed for use in applications where it is required to actively dissipate large amounts of energy from the DC bus.

The available range of CHT units covers currents from 100 up to 1500A.

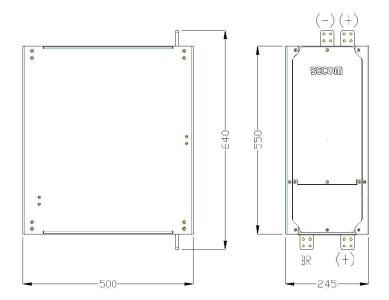




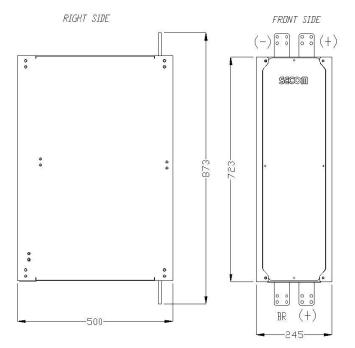
CHT

DIMENSIONS

CHT units are available in three different mechanical sizes, dictated by the required current; mechanical drawings listing dimensions.



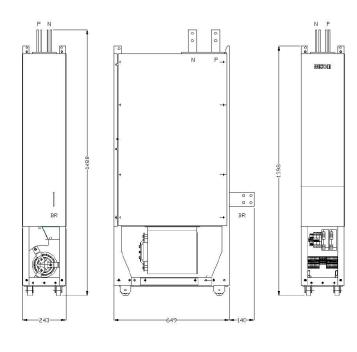
Size 1



Size 2

CHT

DIMENSIONS



Size 3

COOLING

CIRCUIT

Cooling of the semiconductor switches is provided by a forced convection circuit. Details of the system ratings are listed below.

Parameter	Value
Power supply (Vdc)	24
Power (W)	39
Flow (m3/h)	200 - 400
Operating temperature (°C)	10 - 40
Max temperature (°C)	45

CHT cooling circuit up to 225 A

Parameter	Value
Power supply (Vac)	230/1ph
Power (W)	Up to 80
Flow (m3/h)	350 - 600
Operating temperature (°C)	10 - 40
Max temperature (°C)	45

Cooling circuit, CHT from 275 up to 750 A

Parameter	Value
Power supply (Vac)	400-3ph
Power (W)	750
Flow (m3/h)	1100 - 1400
Operating temperature (°C)	10 - 40
Max temperature (°C)	45

Cooling circuit, CHT from 1000 up to 1500 A

The design of the CHT unit enclosure ensures there are sufficient openings for correct air flow. Periodic maintencance should be carried out to check for and prevent obstruction of the ventilation grill, furthermore correct ventilation must be provided in the cubicle that the CHT is installed in.

TECHNICAL

DATA

Environment conditions	
Altitude	1000 m above sea level
Climate	Temperate
Operating temperature (min./max.)	0 ÷ 40°C
Storage temperature	0 ÷ 40°C
Relative Humidity (abscence of pollution)	10 ÷ 90%

Dimension and weight	
Height	550/725/1398 mm
Width	243 mm
Depth	500/650 mm
Weight	35-80 kg

Electrical data	
Semiconductor	IGBT
Cooling system	Forced air
Nominal current	100 - 1500 A
Supply voltage	400 - 1150 Vdc
Braking	IGBT chopper



TECHNICAL

DATA

CHT up to 500 A	
Control supply voltage	230 Vac
Frequency	50/60 Hz
A.C. current	0.5 A
Optional electronics power supply	± 24Vdc
D.C. current	2 A
Fan supply voltage 1	24 Vdc
Fans current 1	2 A
Fan supply voltage 2 (alternative to 1)	230 Vac
Frequency	50/60 Hz
Fans current 2	0.5 A

CHT from 750 to 1500 A	
Control supply voltage	230 Vac
Frequency	50/60 Hz
A.C. current	0.5 A
Optional electronics power supply	± 24Vdc
D.C. current	2 A
Fan supply voltage 1	400-440Vac - 3ph
Frequency	50/60 Hz
Fans A.C. current	3 A

