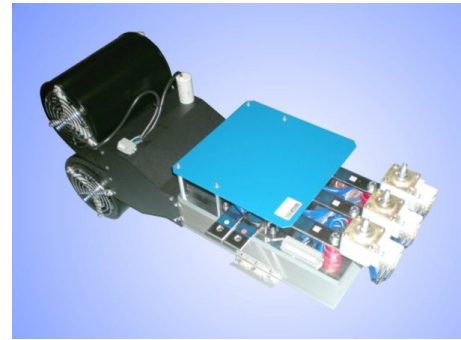


HIGHLIGHTS

- Dual radial fan (for redundant forced cooling system)
- High reliability
- Ultrafast fuses included.
- Thermostat, snubber and varistor included
- Working voltage up to 400V_{RMS}.
- Insulation 2500 V_{RMS} /1 min.
- Accessories support plate (p.e.:control cards)



non-contractual photo

GENERAL SPECIFICATIONS

Nominal line to line input voltage (V _{RMS})	400 V _{AC} ±10%
Repetitive peak reverse voltage (V _{RRM})	1200 V _P
Maximum working current (I _{DC}) (1)	783 A _{DC} @ 35°C TA
Maximum nominal working current (I _{DC}) (2)	700 A _{DC} @ 35°C TA
Working altitude	<= 1000 meters
Cooling (3)	Forced air, 2 radial fan, 230V _{RMS} 50Hz 207W

(1): The maximum non continuous working current

(2): The maximum continuous working current without thermal protection activation

(3): Performance for 60Hz working conditions is different from 50Hz, for 60Hz applications please consult the factory.

SEMICONDUCTOR SPECIFICATIONS

Peak non-repetitive surge current (I _{TSM})	9200 A @ T _p =10ms, T _j =45°C, (50Hz), sine
	8000 A @ T _p =10ms, T _j =125°C, (50Hz), sine
I ² t capacity for fusing	420 kA ² s @ T _p =10ms, T _j =45°C, (50Hz), sine
	320 kA ² s @ T _p =10ms, T _j =125°C, (50Hz), sine
Maximum rate of rise of on-state current (repetitive) (di _T /dt)	100 A/μs
Maximum rate of rise of on-state current (non-repetitive) (di _T /dt)	500 A/μs
Maximum peak on-state voltage (V _{TM})	1,32 V @ I _{TM} =600A
Critical rate of rise of off-state voltage (dv/dt)	Min. 1000 V/μs @ T _j =125°C, V _D =2/3 V _{RRM}
Gate trigger voltage (V _{GT})	max. 2 V @ T _j =25°C, V _D =6V
	max. 3 V @ T _j =-40°C, V _D =6V
Gate trigger current (I _{GT})	max. 150 mA @ T _j =25°C, V _D =6V
	max. 200 mA @ T _j =-40°C, V _D =6V
Latching current (I _L)	200 mA @ T _j =25°C, t _p =30μs; V _D =6V
Holding current (I _H)	150 mA @ T _j =25°C; V _D =6V

PROTECTION

dv/dt protection (RC)	RC network 0,22μF/56 Ohms
Peak voltage protection (VDR)	460 V _{RMS} varistor
Current protection (Semiconductor fuses) (1)	3 x 069UR1S0800B
Microswitch (fuse indicators)	3 x MS 3V1-5N
Thermal protection (Thermostats)	80°C NC

(1): Fuses only for shortcircuit protection. User provide external protection for continuous overloads and cable size.

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TERMINAL SPECIFICATIONS	
Input power terminals (AC terminals)	(M8) 11 to 13 Nm
Module power terminals	(M8) 11 to 13 Nm
Output power terminals (DC terminals)	2xØ10,5 (M10) 12 to 15 Nm (1)
Control & auxiliary terminals	WAGO series 260 terminal blocks 1,5 mm ² / AWG 16

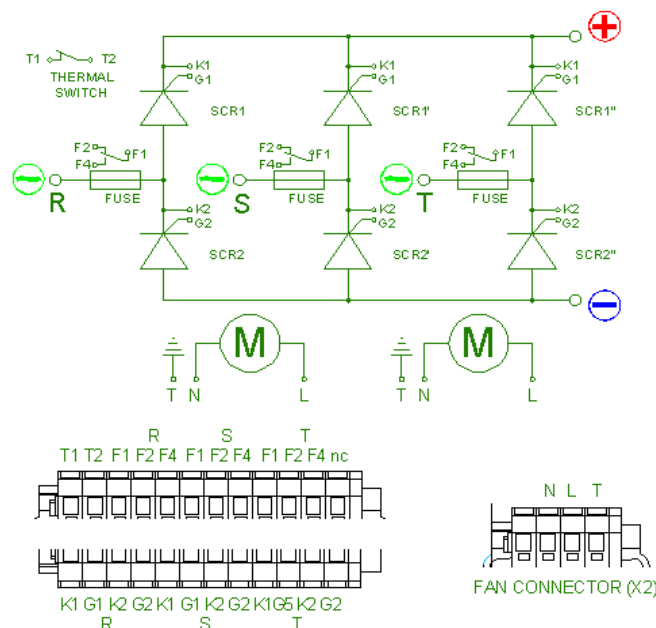
(1):The press should be performed with two keys, avoiding to transmit lateral efforts al terminal of connection, what would be able to produce the deterioration of the element semiconductor.

ENVIRONMENT SPECIFICATIONS	
Protection grade (EN-60529 / CEI529 / UNE-20324)	IP-00
Humidity max.	50% RH @ 35°C / 90% RH @ 20°C
Pollution degree	III
Isolation	2500 V _{RMS} / 1 min

LOSSES	
Power dissipation of semiconductors at full charge	Aprox. 1925 W
Maximum power dissipation of fuses at full charge	Aprox. 156 W
Maximum total power dissipation at full charge	Aprox. 2081 W

MECHANICAL SPECIFICATIONS	
Mounting position	Any
Storage temperature	-25 to 80°C
Width	291 mm
Depth	360 mm
Height	745 mm
Aprox. Weight	20,1 Kg.

CIRCUIT & CONTROL / AUXILIARY TERMINALS



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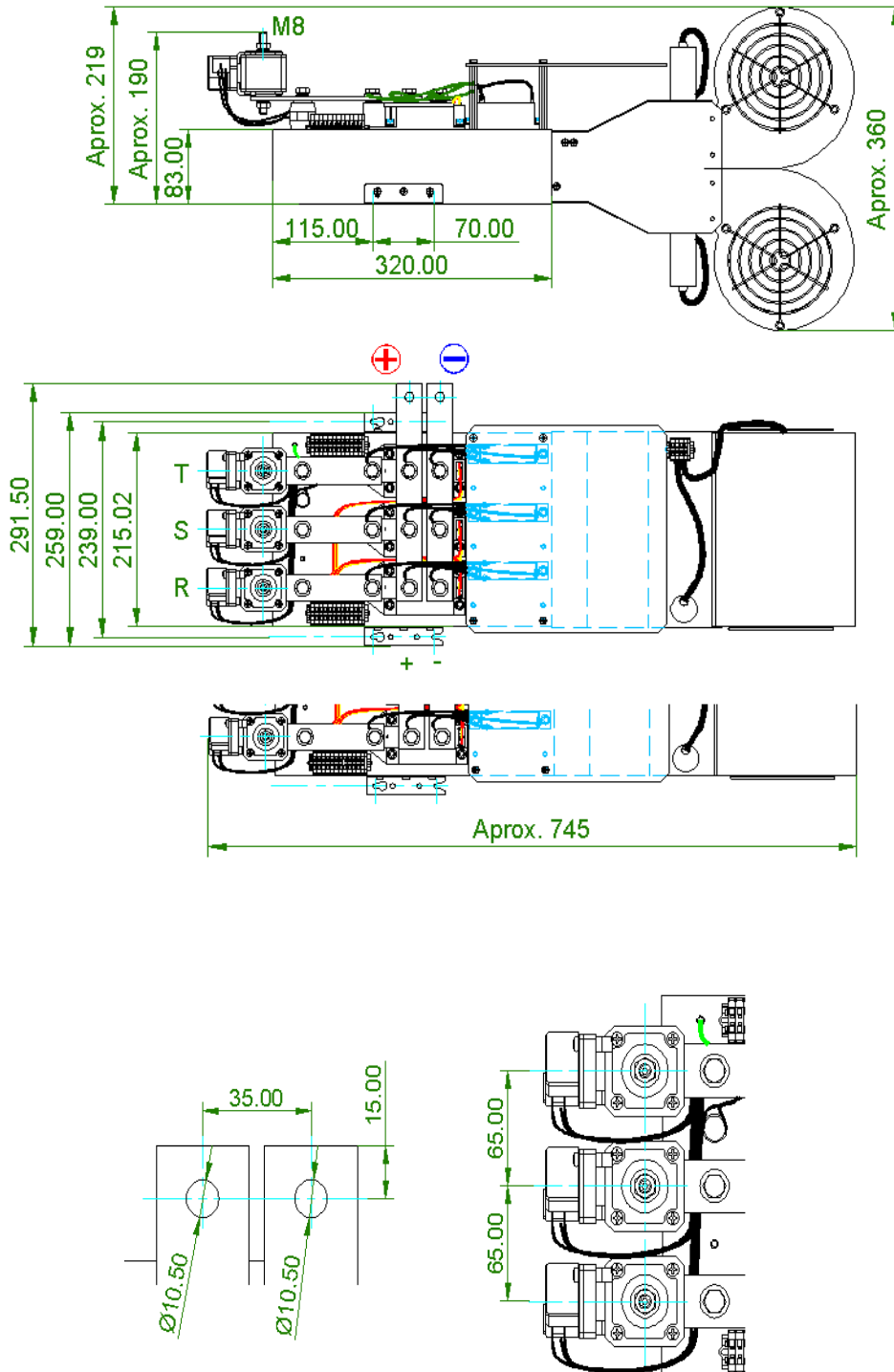
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DIMENSIONS.



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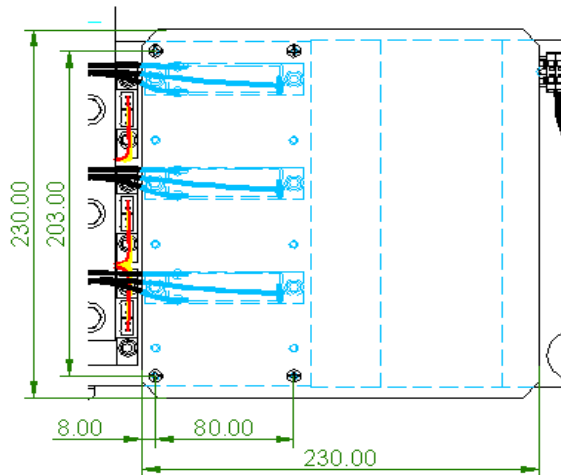
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SUPPORT PLATE FOR ACCESORIES



MOUNTING CONSIDERATIONS

It's necessary a minimum distance of 100 mm with regard to the envelope. The free air circulation should be guaranteed. Avoiding the heat sources of nearby to assembly.

In the real applications it is important to consider a safety margin with regarding the working current, we recommend a margin of the 20%.

For critical cases (24 hours work, repetitive overloads...), margins of the 30% to 50% are used.

ORDER CODES & OPTIONS

MH- B6C 780 F 12 RCVTF /A
(1) (2) (3) (4) (5) (6) (7)

1- MH, Series identifier

2- B6C, Circuit identifier

3- 780; Maximum current identifier

4-F, Refrigeration identifier (F: Forced)

5-12; $V_{RRM}/10$ identifier

6-Accessories:

RC: Resistance-capacitor (snubber) included

V: Varistor included

T. Thermal switch included

F: Semiconductor fuse protection included. (fuse also includes microswitch)

7-Options:

/A or without indication: Power output terminals on right side (standard type)

/B: Power output terminal on left side.

/C: Positive output on right side & negative output on left side

/D: Positive output on left side & negative output on right side

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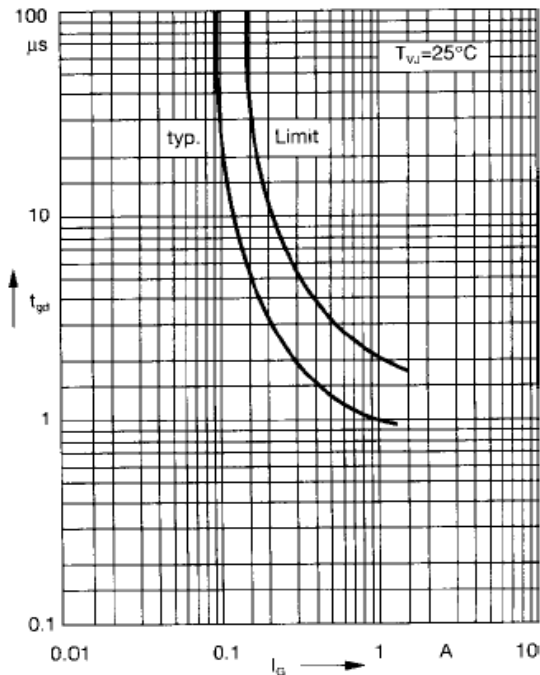
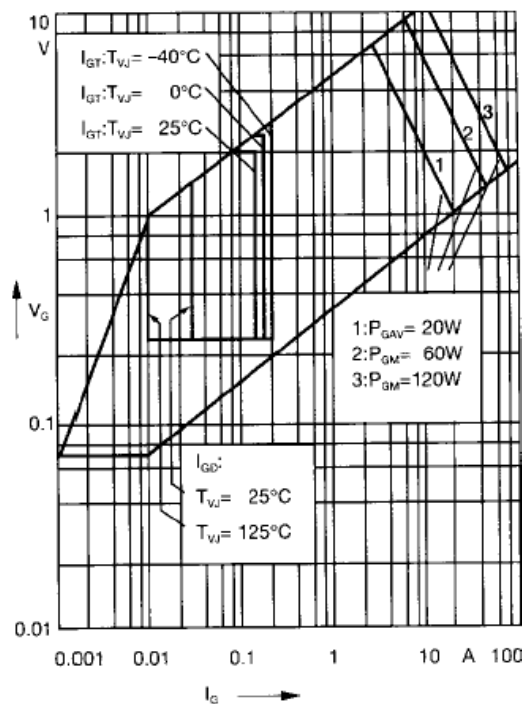
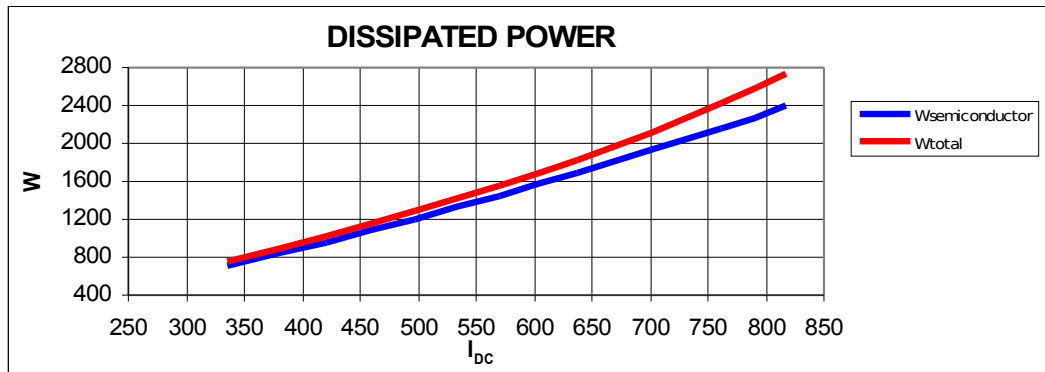
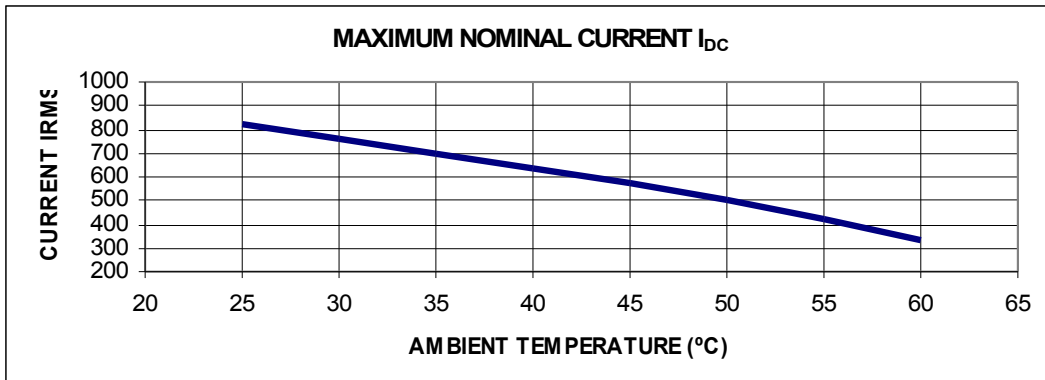
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GRAPHICAL INFORMATION



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