

## Type TIM 300W - 400W - 600W

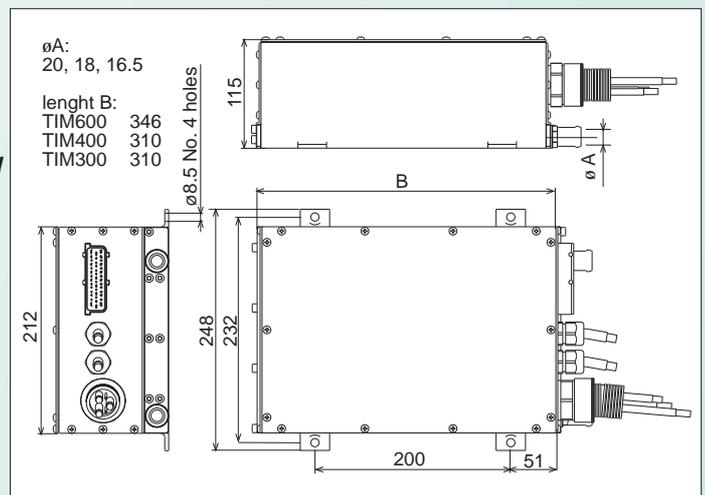
TIM ( Traction Inverter Module ) is a vector control AC motor drive especially designed for electric and hybrid vehicles. The component is designed to control induction motors and it is preset to control MES-DEA permanent magnet reluctance motors.

The main features are:

- Digital Signal Processing based control
- Smooth Motor Control
- Complete adjustable regenerative braking levels on releasing the accelerator and on pressing the brake pedal.
- The parameter can be update in real-time for adjustable the performance on own special features, the programming is quickly achieved with a standard laptop computer by RS-232 and by CAN - BUS (optional)
- Total management of selecting gear change ( Drive, Economy, Reverse, Parking)
- Economy mode: reducing the performance for increasing the autonomy.
- Programmable digital tachometer output.
- Autotuning of motor characteristics.
- Under and Over Voltage Protection
- Overcurrent Protection
- Overtemperature Protection

### Technical data

		TIM300W	TIM400W	TIM600W
Weight:	Kg	6.9	6.9	7.5
Nominal output current:	Amps	140	186	236
Max. output current:	Arms	210	280	400
Input voltage:	V <sub>DC</sub>	80÷400		
Input Service voltage:	V <sub>DC</sub>	12 (24 V <sub>DC</sub> optional)		
Switching frequency:	KHz	3-9		
Cooling:	Glicol	50% H <sub>2</sub> O + 50%		
Drop pressare cooling :	mBar	93 @ 8 Liter/min.		
Least flow rate cooling:	Liter/min.	8		
Operative Temperature:		-20 to +65 °C		
Control type:		Vector control		
Modulation:		PWM		
Protection:		IP54		
Communication:		RS-232 CAN – BUS (optional)		



The information contained herewith is subject to change without notice

