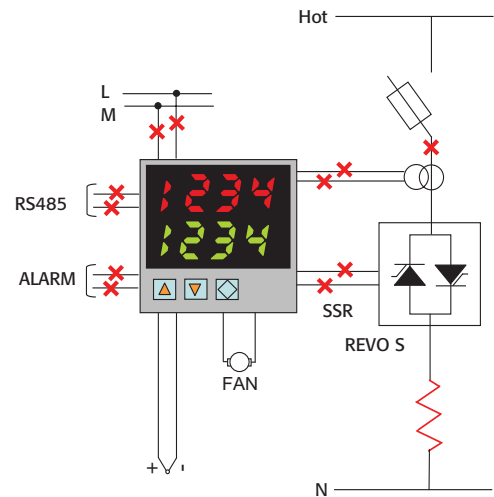




REVO-TC 1PH Temperature + Thyristor



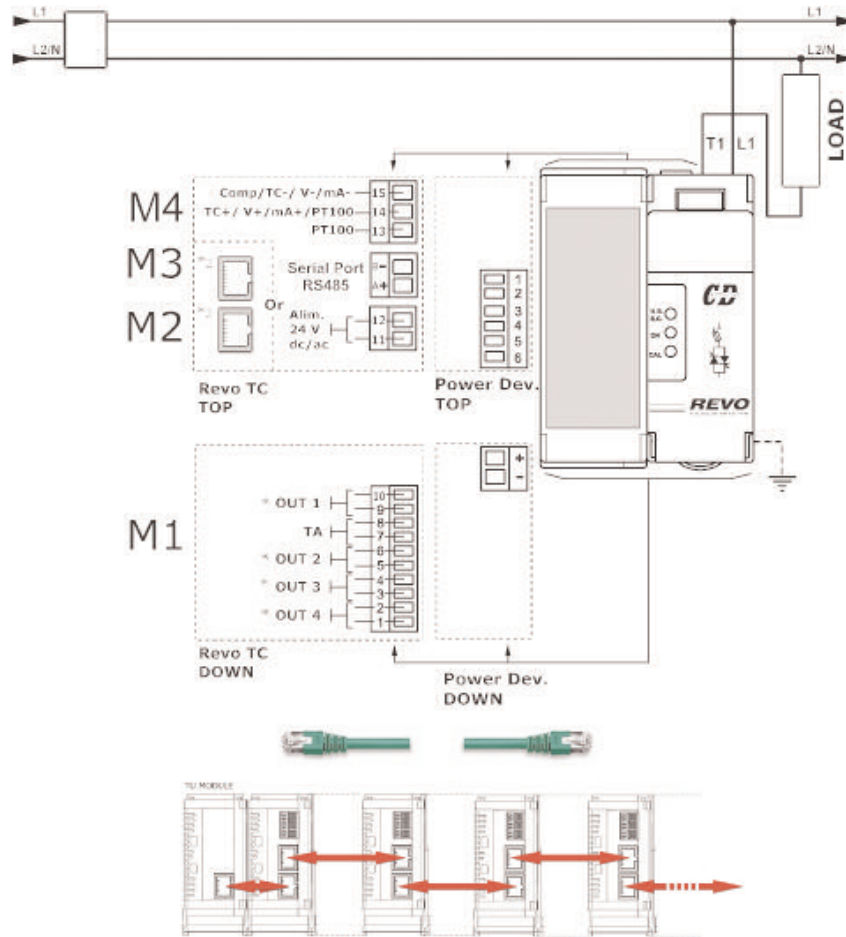
GENERAL DESCRIPTION

- Integrate Fuse + Fuse Holder with built in Current Transformer
- Current Transformer integrated when HB option is selected on Controller
- Input signal SSR standard, analogue is an option
- Zero crossing firing
- Electronic fully isolated from power with constant current drain on input
- Special heat Sink with very high dissipation value
- Operating temperature 40° C without derating
- Comply with EMC
- DIN RAIL side by side mounting
- IP20 protection

TECHNICAL SPECIFICATION TEMPERATURE CONTROLLER

- PID Temperature controller
- Automatic Tuning of PID parameters with Self Tune or Pretune procedure
- Manual setting when requested of PID parameters
- Three pallets of PID parameters can be enabled at programmed PV value
- Dual Display to read PV, Set Point Load current and all parameters
- Universal input for Thermocouple RTD and linear input
- Four configurable outputs as Relay, SSR and 4:20mA
- Heating and Cooling controller with possibility to select the type of cooling for fan, water and oil
- RS485 communication from 19200 to 57600 Bauds Modbus RTU protocol
- The controller can be configured from front push button or via RS485 comm. or via USB port on front controller using CD Automation programming cable
- Auto/Manual with Bumpless Transfer facility
- Heater Break Alarm to diagnostic partial or total load failure
- RS485 port RTU Modbus Protocol
- Comply with CE-EMC
- Screw terminals as standard or RJ45 Connector
- DIN rail mounting
- Dimensions Width: 36 Height: 121 Depth: 86
- Flat cable and connectors for multiple controller system

WIRING CONNECTION REVO-TC 1PH from 30A to 40A

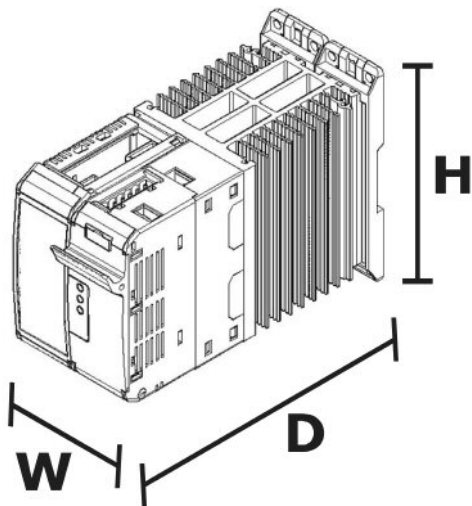


- See Out terminal chapter for more informations on manuals
- 2 Only with flat wiring system Option: connect with proper cable (RJ45 Cat 5E Patch Cable UTP) as shown:

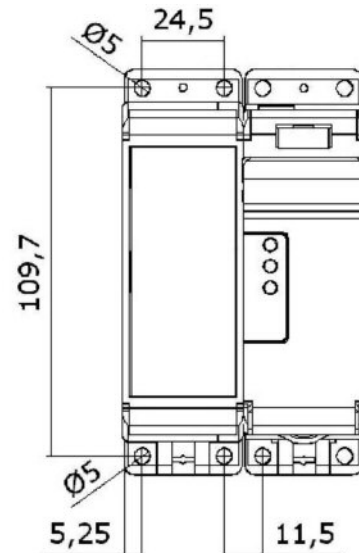
NOTE

- (1) • A suitable device must ensure that the unit can be electrically isolated from the supply, this allows the qualified people to work in safety.
 - (2) • The heat-sink must be connected to the earth.
 - (3) • Only for the HB option
 - (4) • Only for the Analog Input option.
 - (5) • Use the extrarapid fuse with low I_t.
- The user installation must be protecting by electromagnetic circuit breaker or by fuse isolator.
The semiconductor fuses are classified for UL as supplementar protection for semiconductor.

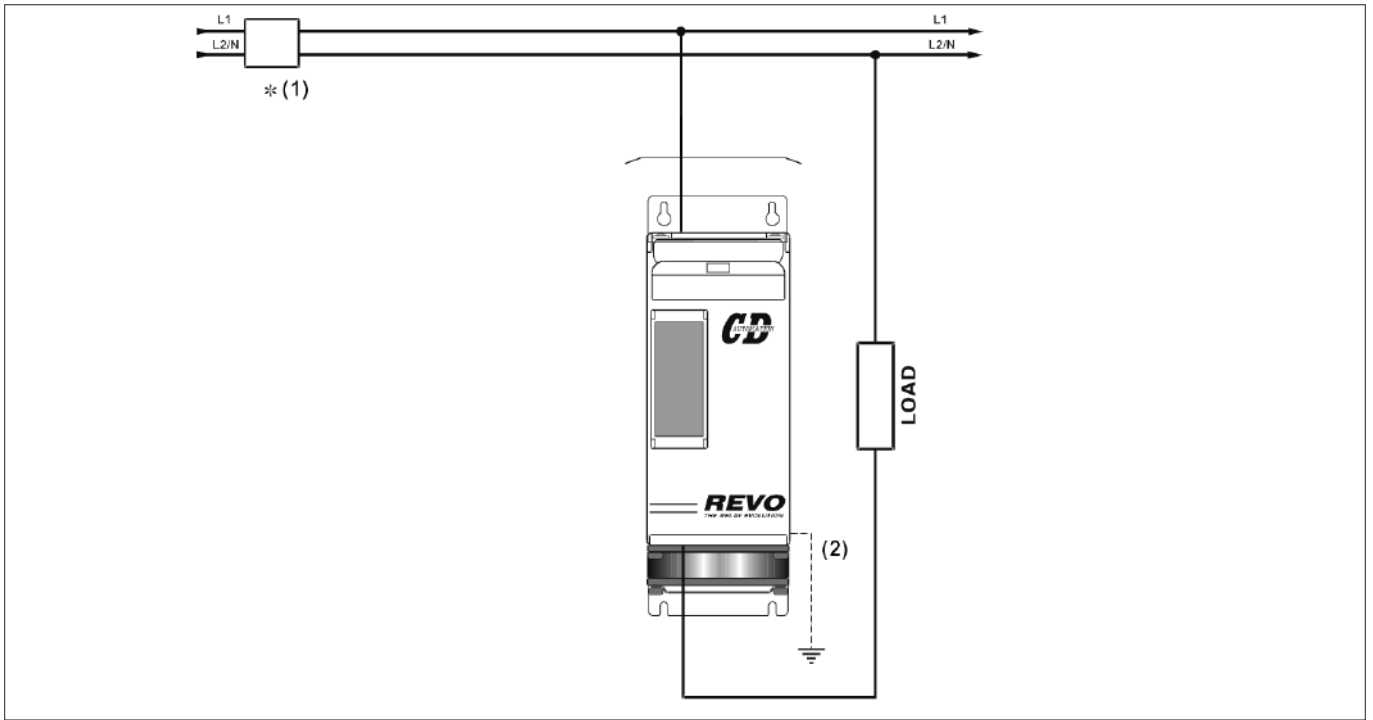
DIMENSION AND FIXING HOLES



W 72 mm. - H 121 mm. - D 185 mm. - kg. 1,15



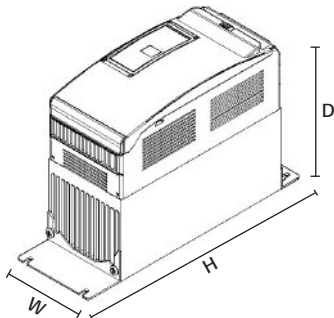
WIRING CONNECTION REVO-TC 1PH from 60A to 210A



NOTE

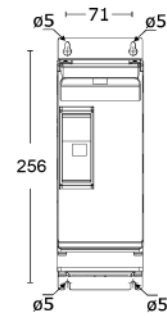
- (1) • A suitable device must ensure that the unit can be electrically isolated from the supply, this allows the qualified people to work in safety.
- (2) • The heat-sink must be connected to the earth.
- The user installation must be protecting by electromagnetic circuit breaker or by fuse isolator. The semiconductor fuses are classified for UL as supplementer protection for semiconductor.

DIMENSION AND FIXING HOLES

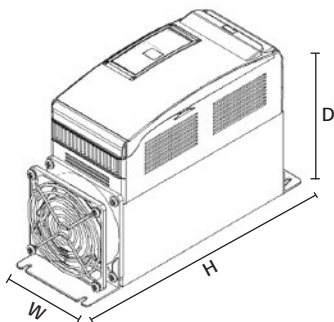


SR12 W 93 mm. - H 269 mm. - D 170 mm. - kg. 3,4

REVO-TC 1PH 60A - 90A (Without Fan)

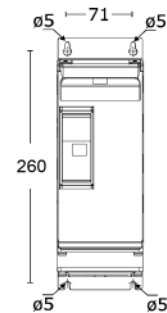


REVO-TC 1PH 60A - 90A (Without Fan)



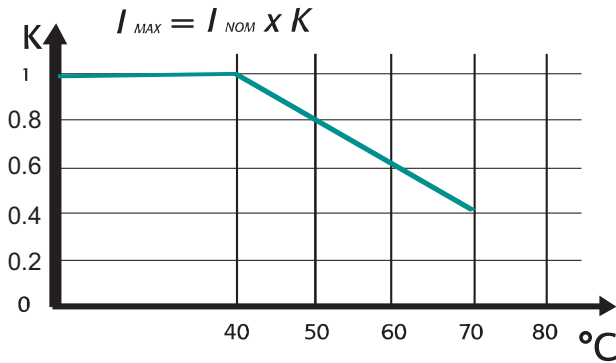
SR15 W 93 mm. - H 273 mm. - D 170 mm. - kg. 3,6

REVO-TC 1PH 120A÷210A (With Fan)



REVO-TC 1PH 120A÷210A (With Fan)

DERATING CURVES



REVO TC-TC has been sized for operating temperature of 40° C
Over this temperature use the graphic above

OUTPUT FEATURES (POWER DEVICE)

Current A	Voltage range (V)	Ripetitive peak reverse voltage (480V) (600V)		Latching current (mAeff)	Max peak one cycle (10msec.)	Leakage current (mAeff)	I2T value for fusing tp=10msec.	Frequency range (Hz)	Power loss I=inom (W)	Isolation Voltage Vac
30A	24÷600V	1200	1600	250	400	15	780	47÷70	38	2500
35A	24÷600V	1200	1600	250	600	15	1750	47÷70	44	2500
40A	24÷600V	1200	1600	250	800	15	3110	47÷70	50	2500
60A	24÷600V	1200	1600	450	1000	15	4750	47÷70	65	2500
90A	24÷600V	1200	1600	450	2000	15	19100	47÷70	84	2500
120A	24÷600V	1200	1600	450	1540	15	11300	47÷70	138	2500
150A	24÷600V	1200	1600	450	2000	15	19100	47÷70	162	2500
180A	24÷600V	1200	1600	300	4800	15	108000	47÷70	178	2500
210A	24÷600V	1200	1600	300	5250	15	128000	47÷70	202	2500

ORDERING CODES REVO-TC 1PH

REVO TC 1PH		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
REVO TC 1PH		T	C	1	-	-	-	-	-	-	-	-	-	-	-	-	-		
3	Phase Controlled	Description		Code		7		Max Voltage		11		Output 3		14		Approvals			
1 PHASE UNIT 1PH		1		1		480V 600V		4 6		1 off D/I 24v d.c. 1 off D/O Relay contact		1 2		CE EMC For European Market		0			
4,5,6	Phase Current 1PH/2PH/3PH	Description		Code		8		Aux. Voltage supply		12		Fuse & Option		15		Manual			
30A 35A 40A 60A 90A 120A 150A 180A 210A		0 3 0 (3) 0 3 5 0 4 0 0 6 0 0 9 0 1 2 0 1 5 0 1 8 0 2 1 0 (2)				12:24V ac dc		4		9		Input		Thermocouple Pt 100 0:10V dc 4:20mA		T N V A		Description Code	
										10		Output 2		13		Fan Option		Description Code	
										Relay Output 2 Heating Only		R 0		No fan for unit ≤< 90A Fan 110V for unit > 90A Fan 220V for unit > 90A		0 1 2		None Italian Manual English Manual German Manual French Manual	
														16		Version		Description Code	
														Standard unit with a single fuse Unit with 2 Fuses + Fuse Holder ≤<40A (Just on single phase units)		1 2 (4)			

LEGEND

CT = Current Transformer
HB = Heater Break Alarm

Note (1): Fixed fuses over 40A

Note (2): The temperature controller can be mounted as an option on all CD automation Thyristor unit

Note (3): Available on 2 - 3PH only

Note (4): Available on RT1 only

