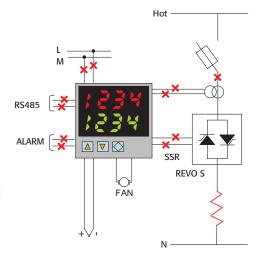


REVO-TC 3PH Temperature + Thyristor







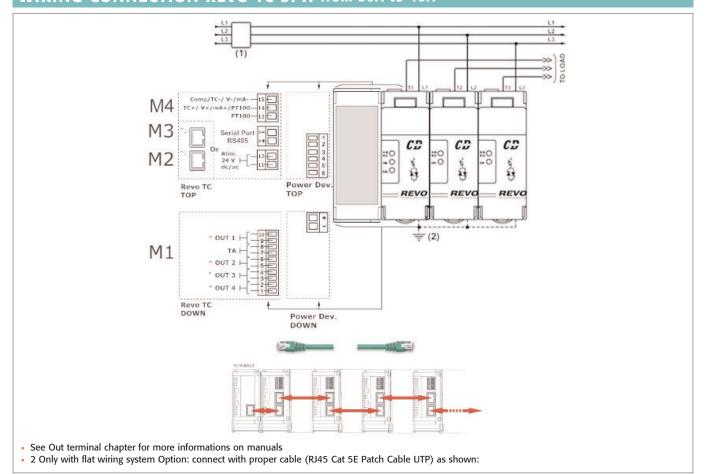
GENERAL DESCRIPTION

- Integrate Fuse + Fuse Holder with built in Current Transformer
- Current Transformer integrated when HB option is selected on Controller
- Universal Input
- Zero crossing firing
- 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
- Heather Break Alarm to diagnostic partial or total load failure
- RS485 port RTU Modbus Protocol
- Comply with CE-EMC
- Screw terminals as standard
- DIN rail mounting
- Dimensions Width: 36 Height: 121 Depth: 86
- Flat cable and connectors for multiple controller system

WIRING CONNECTION REVO-TC 3PH from 30A to 40A



LOAD TYPE



OPEN DELTA Resistive or Infrared Lamps Long and medium waves

LOAD TYPE

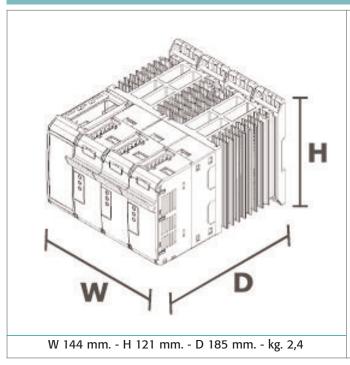


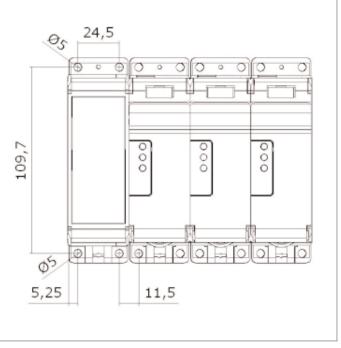
STAR with neutral Resistive or Infrared Lamps Long and medium waves

NOTE

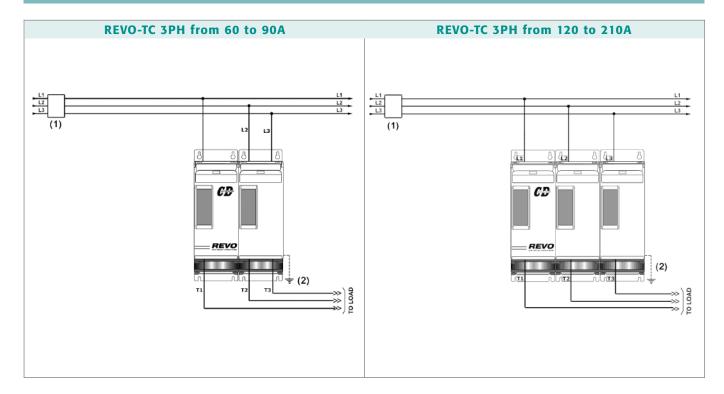
- (1) A suitable device must ensure that the unit can be electrically isolated from the supply, this allows the qualified people to work in safety.
 - The user installation must be protecting by electromagnetic circuit breaker or by fuse isolator. The semiconductor fuses are classified for UL as supplementar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

DIMENSION AND FIXING HOLES





WIRING CONNECTION REVO-TC 3PH from 60A to 210A



LOAD TYPE



OPEN DELTA Resistive or Infrared Lamps Long and medium waves



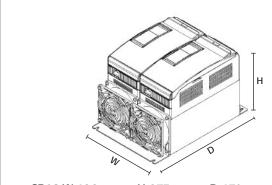


STAR with neutral Resistive or Infrared Lamps Long and medium waves

NOTE

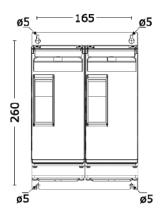
- (1) A suitable device must ensure that the unit can be electrically isolated from the supply, this allows the qualified people to work in safety.
 - The user installation must be protecting by electromagnetic circuit breaker or by fuse isolator. The semiconductor fuses are classified for UL as supplementar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

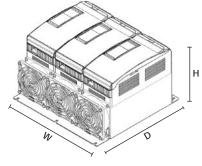
DIMENSION AND FIXING HOLES



SR16 W 186 mm. - H 273 mm. - D 170 mm. - kg. 7

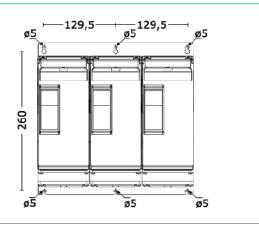
60A - 90A



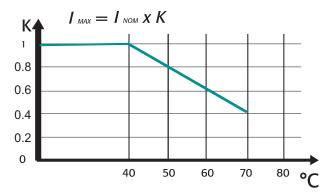


SR17 W 279 mm. - H 273 mm. - D 170 mm. - kg. 10

120A÷210A



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)	reverse	ve peak voltage (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
60A	24÷600V	1200	1600	450	1000	15	4750	47÷70	195	2500
90A	24÷600V	1200	1600	450	2000	15	19100	47÷70	251	2500
120A	24÷600V	1200	1600	450	1540	15	11300	47÷70	414	2500
150A	24÷600V	1200	1600	450	2000	15	19100	47÷70	486	2500
180A	24÷600V	1200	1600	300	4800	15	108000	47÷70	534	2500
210A	24÷600V	1200	1600	300	5250	15	128000	47÷70	606	2500

FAN SPECIFICATION	
Supply: 230V Standard	Input Power 16W
Supply: 115V Option	Input Power 14W

ORDERING CODES REVO-TC 3PH

		1	2	3	4	5	6		7	8	9	10	11	12	13	14	15	16
	REVO TC 3PH	R	T	3	_	_	_	-	_	_	_	_	_	_	_	_	_	_
3	Phase Controlled	7		May	Volta	GO		11		Outo	urt Z			14		Annro	vale	

Numeric code
3
Current PH/3PH
Numeric code
0 3 0 (3)
0 3 5
0 4 0
060
090
1 2 0
150

	4,5,6		PH/3PH
	Desci	ription code	Numeric code
		30A	0 3 0 (3)
35A			0 3 5
40A			0 4 0
60A			060
90A			090
120A			1 2 0
		150A	150
		180A	180
		2104	2 1 0 (2)

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

7	Max Vo	Itage	11	Outpu	it 3
Des	scription code	Numeric code	De	scription code	Numeric cod
	480V	4	1 0	off D/I 24v d.c.	1
	600V	6	1 off [O/O Relay contact	2
ve:	480V	4 6	1 0	off D/I 24v d.c.	1

12

	scription code	Numeric code	Description code
	12:24V ac dc	4	For All Units = < 40A
			Fuse & Fuse Holder
9	Inp	ut	Fuse & Fuse Holder + CT
Da	amintian anda	Numeric code	Fuse & Fuse Holder
De	scription code	Numeric code	+CT +HB with screw terminals
TI	nermocouple	T	Fuse & Fuse Holder
Pt 100		N	+CT +HB with Flat Cable
	0:10V dc	V	For All Units > 40A
			Fixed Fuses Standard
	4:20mA	Α	Fixed Fuse Standard + CT

Output 2			
Numeric code			
R			
0			

Fixe	ed Fuse Standard + CT + HB	Н
13	Fan O _l	ption
De:	scription code	Numeric code
No fa	n for unit =< 90A	0
Fan 1	10V for unit > 90A	1
Fan 2	20V for unit > 90A	2

Numeric code

Н

Х

14	Approvals				
De	scription code	Numeric code			
CE E	MC For European				
	Market	0			
cUL	pending up to				
	210A	1			

15	Manual				
De	scription code	Numeric code			
	None	0			
lt	alian Manual	1			
Er	nglish Manual	2			
Ge	erman Manual	3			
Fr	ench Manual	4			

16	Version			
De	scription code	Numeric code		
	Standard unit			
wi	th a single fuse	1		
U	nit with 2 Fuses			
+ Fu	se Holder .=<40A			
(Just o	n single phase units)	2 (4)		

