



Cooling Controller

ESM-3711-C



- *Cooling Applications*
- *Economic*
- *Easy to Use*
- *Functional Internal Buzzer*
- *3 Digits display*
- *PTC Input or
2-wire Pt-100, Pt-1000 Input*
- *ON / OFF Control*
- *Adjustable Temperature Offset*
- *Set Value Boundaries*
- *Relay or SSR Driver Output*
- *Operation Selection of Compressor Operates Continuously,
Stops or Operates Periodically in case of Probe Defect*
- *Compressor Protection Delays*
- *Defrost (Off-Cycle) Function*
- *Adjustable Defrost Time from Front Panel*
- *Adjustable On/Off Operation from Front Panel*
- *Defrost Parameters*
- *Alarm Parameters*
- *Adjustable Internal Buzzer According to Defrost,
Probe Defect and Alarm Status*
- *Button Protection*
- *Password Protection for Programming Section*

SPECIFICATIONS

INPUT

PTC: PTC (1000Ω @ 25°C)

Thermoresistance (RTD): 2-wire Pt-100, Pt-1000 (IEC 751)(ITS90)

Measurement Range: It is in ordering information

Accuracy: ± 1% of scale

Sensor Break Protection: Upscale

Sampling Cycle: 3 samples per second

CONTROL

Control Form: ON/OFF

ON/OFF hysteresis: It can be configured by the user

OUTPUT

Control Output:

Relay: At resistive load ; 10A@250V~NO+NC , 100.000 operation.
or SSR Driver Output (Maximum 20mA@12V==)

SUPPLY VOLTAGE

230V~(±15%) 50/60 Hz -1.5VA

115V~(±15%) 50/60 Hz -1.5VA

24V~(±15%) 50/60 Hz -1.5VA

12V~(±15%) 50/60 Hz -1.5VA

(It must be determined in order.)

ENVIRONMENTAL RATINGS and PHYSICAL SPECIFICATIONS

Operating Temperature: 0...50°C

Humidity: 0-90%RH (none condensing)

Protection Class: IP65 at front, IP20 at rear

Dimension:

ESM-3711-C: 77 x 35mm, Depth:62.5 mm

Ordering Information

ESM-3711-C (77x35 DIN Size)	A	BC	D	E	/	FG	HI	/	U	V	W	Z
			0		/	00	00	/	1		0	0

A	Supply Voltage
3	24V ~ (± 15%) 50/60Hz
4	115V ~ (± 15%) 50/60Hz
5	230V ~ (± 15%) 50/60Hz
6	12V ~ (± 15%) 50/60Hz
9	Customer

BC	Input Type	Scale(°C)	
11	PT 100, IEC751(ITS90)	-50°C	400°C
09	PT 100, IEC751(ITS90)	-19.9°C	99.9°C
12	PTC (Note-1)	-50°C	150°C
15	PTC (Note-1)	-19.9°C	99.9°C
14	PT 1000, IEC751(ITS90)	-50°C	400°C
13	PT 1000, IEC751(ITS90)	-19.9°C	99.9°C

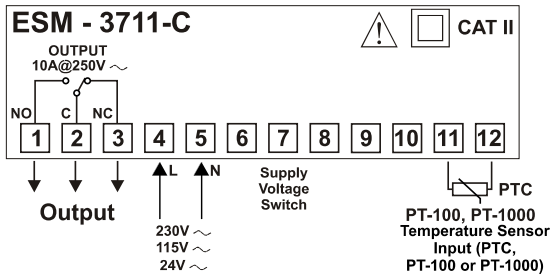
Note-1 : If input type is selected PTC (BC = 12 or BC = 15), PTC Temperature sensor is given with the device. For this reason PTC sensor type (V) must be declared in ordering information.

E	Output-1
1	Relay Output (10A@250V ~ at resistive load, 1 NO + 1NC)
2	SSR Driver Output (Maximum 20mA@ 12V ==)

V	Temp.Sensor which is given with ESM-3711-C
0	None
1	PTC-M6L50.K1.5(PTC Air probe with 1.5 m silicon cable)
2	PTCS-M6L30.K1.5.1/8"(PTC Liquid probe with 1.5 m silicon cable)
9	Customer

Electrical Wiring

For 230V ~ , 115V ~ , 24V ~ with Relay Output;



For 230V ~ , 115V ~ , 24V ~ with SSR Driver Output;

