CAREL

❄ *ir33*

new generation!

ir33 represents the maximum technology that CAREL offers in the field of refrigeration applications.

The four versions (12 Vac, 12/24V ac/dc, 230 Vac and 115/230 Vac) give rise to a vast range of products in different configurations.

The 115/230 Vac version is especially innovative, integrating a switching power supply, 4 relays and a clock, all in the same dimensions as the current ir32 range.

For manufacturers, CAREL proposes the 230 Vac version: more compact than the other versions, with more essential features and consequently more competitive in terms of price.

The 12 Vac and 12/24 Vac/dc models represent the evolution of the ir32 series, and are designed to be their natural replacements. The operating logic is the same, and the appearance mirrors some sections of the previous product, however the functions have been upgraded: the changeover from the previous range to the new version is therefore simple and advantageous.

Most of the models are fitted with 16 A (3/4 Hp) relays for controlling the compressors.

Technology & Evolution

❄ ir33

General hardware characteristics

- Buzzer as standard on all models;
- switching power supply implemented on the 12/24 Vac/dc and 115/230 Vac models;
- possibility on all models to connect NTC temperature probes (type HT, max 150 °C);
- digital inputs configurable for the connection of NTC probes;
- infrared option for using the remote control;

- real time clock for the defrost and HACCP functions;
- possibility to download/read the parameters via a programming key;
- 230 Vac versions with built-in transformer;
- high-efficiency green LED display with icons;
- TOP of the range models able to read NTC or PTC probes by simply changing a parameter (IR33C7HB00).

General software characteristics

- Condenser probe management;
- smart defrost with different operating modes;
- management of HACCP functions;
- possibility to configure the auxiliary relay as a second delayed compressor;
- user interface and parameters compatible with the ir32 range;

- pump-down management;
- automatic procedure for assigning the serial addresses;
- keypad lock for individual functions or buttons;
- 2nd evaporator defrost management

Codes

	OUTPUTS				INPUTS					PLUS						
	compressor	defrost	evaporator fan	light / aux 1	ambient temperature	defrost temperature	digital input/ probe 3	digital input/ probe 4	HACCP	programming key	high efficiency display	buzzer	infrared	real time clock	optional "hot point" display terminal	optional RS485 board
12 Vac																
IR33S00N00	16 A				●	●	●	●		●	●	●			●	●
IR33Y00N00	16 A	8 A			●	●	●	●		●	●	●			●	●
IR33C00N00	16 A	8 A	8 A	8 A	●	●	●	●		●	●	●			●	●
IR33C00R00	16 A	8 A	8 A	8 A	●	●	●	●		●	●	●	●		●	●
12/24 Vac																
IR33S0LN00	16 A				●	●	●	●		●	●	●			●	●
IR33S0LR00	16 A				●	●	●	●		●	●	●	●	●	●	●
IR33Y0LR00	16 A	8 A			●	●	●	●		●	●	●	●	●	●	●
IR33C0LN00	16 A	8 A	8 A	8 A	●	●	●	●		●	●	●			●	●
IR33C0LR00	16 A	8 A	8 A	8 A	●	●	●	●		●	●	●	●	●	●	●
IR33C0LB00	16 A	8 A	8 A	8 A	●	●	●	●	●	●	●	●	●	●	●	●

	OUTPUTS				INPUTS					PLUS						
	compressor	defrost	evaporator fan	light / aux 1	ambient temperature	defrost temperature	digital input/ probe 3	digital input/ probe 4	HACCP	programming key	high efficiency display	buzzer	infrared	real time clock	optional "hot point" display terminal	optional RS485 board
230 Vac																
IR33S0EN00	8 A				●	●	●			●	●	●				●
IR33S0EP00	16 A				●	●	●			●	●	●				●
IR33S0EA00	8 A	8 A			●	●	●			●	●	●				●
IR33S0ER00	8 A				●	●	●			●	●	●	●			●
IR33F0EN00	8 A	8 A	5 A		●	●	●			●	●	●				●
IR33F0ER00	8 A	8 A	5 A		●	●	●			●	●	●	●			●
IR33F0EC00	8 A	8 A	5 A		●	●	●		●	●	●	●	●			●
115/230 Vac																
IR33C0HR00	16 A	8 A	8 A	8 A	●	●	●	●		●	●	●	●	●		●
IR33C7HR00	16 A	8 A	8 A	8 A	●	●	●	●		●	●	●	●	●	●	●
IR33C0HB00	16 A	8 A	8 A	8 A	●	●	●	●	●	●	●	●	●	●	●	●

Options

PSOPZKEY00: programming key with battery
PSOPZKEYA0: programming key with power supply
PSOPZPGR00: programming kit

IROPZ48500: RS485 serial card
IRTRRES000: remote control

Probes

NTC015HP00: 1,5 m. range (-50T100 °C)
NTC030HP00: 3 m. range (-50T100 °C)
NTC015HT00: 1,5 m. range (0T150 °C)
NTC030HT00: 3 m. range (0T150 °C)

Installation and electrical wiring diagrams

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