

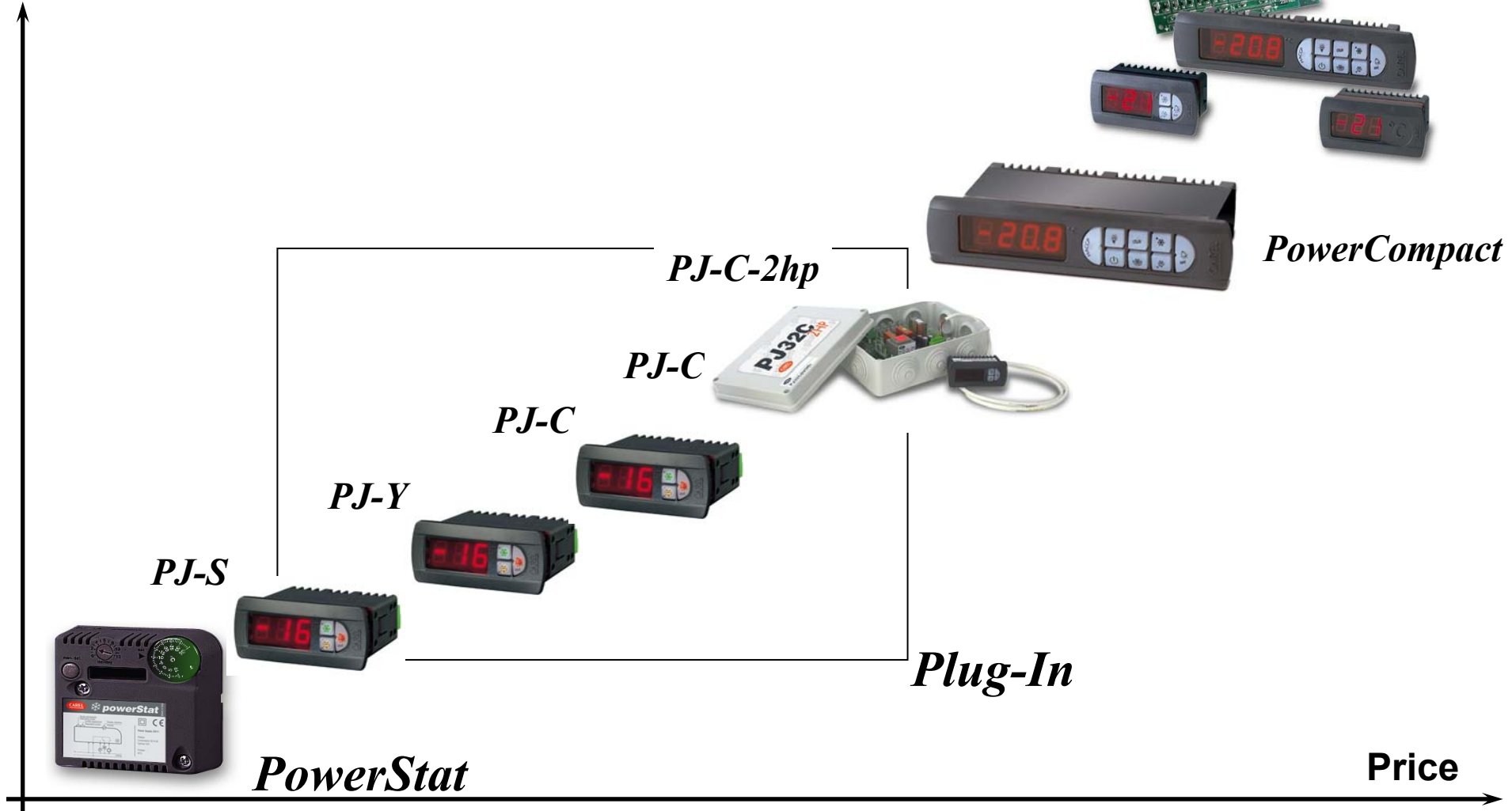
powercompact
&
IR33 preview:

product presentation



Plug-in range

Performance



Plug-in range

CAREL



powercompact: new display

Output
status



Operating
mode

Highly brightness LED



powercompact: main Hardware features

1. New controllers range from 2 up to 5 digital outputs
2. **2 Hp** relay models for the compressor
3. **2** NTC probes **+2** digital inputs/probes
4. Direct power supply 230 Vac
5. Models fitted with internal **switching power supply** in order to
 - ✓ increase the power and reduce the waste of heat
 - ✓ permit direct wide range power supply from 115 to 230 Vac
6. Terminal board model available: choose faston/removable or fixed terminals



powercompact: Software features

1. Condensation fan management
2. Second evaporator management
3. HACCP functions
4. Pump-down
5. Digital inputs configurable as NTC probes
6. Keypad functions block: can be completely customized
7. Easy parameter configuration: standard or through the category name
8. Defrost management by real time clock
9. Selection mode of defrost management type with intervals variables according to **previous defrost time duration**

powercompact: accessories

- ✓ **Second display** for the versions with switching power supply
- ✓ Additional RS485 serial board that can be added for all models
- ✓ Models fitted with clock board allowing defrost in real time



- ✓ **Programming key**



- ✓ **Remote control infrared sensor**





Market remarks

We deal with two different market types with different technical needs, support modes, volumes and price levels

OEM

- ✓ **Big volumes**
- ✓ **Basic performances**
- ✓ **High competitiveness**
- ✓ **Frequent need for customisation**

Wholesalers

- ✓ **Limited volumes**
- ✓ **Standard products**
- ✓ **High performances**
- ✓ **Plus compared with the determinant competitors**

What do we want to achieve?

We want to become market leaders.

OEM



Wholesalers



IR33: new display

High efficiency green LEDs

Operating
Information
&
Output status





IR33: display overview





IR33: new software functions



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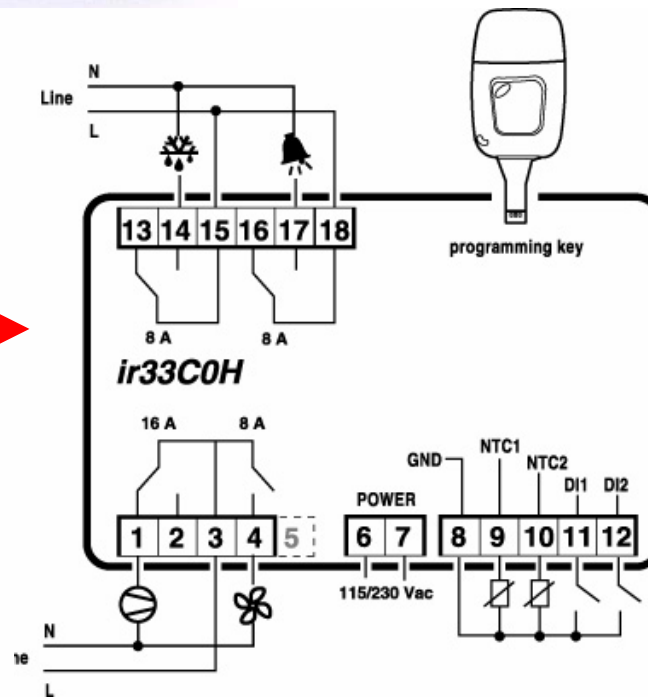
Current functions: the same setting mode and parameter meaning



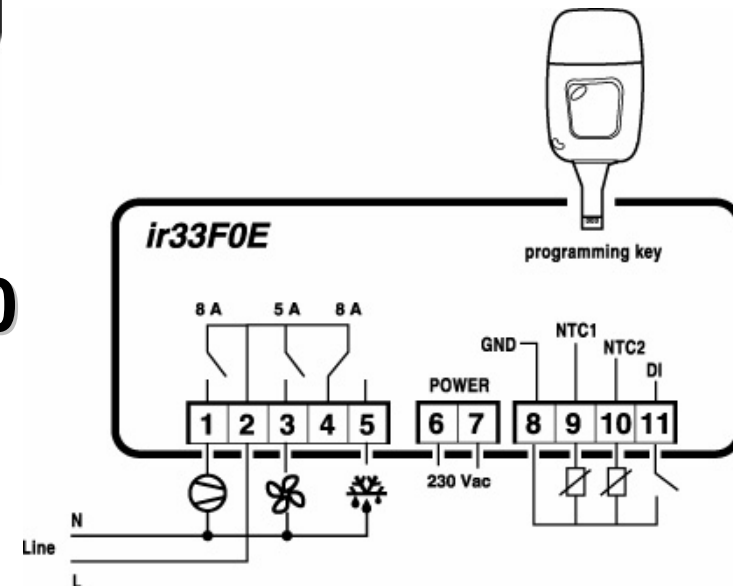
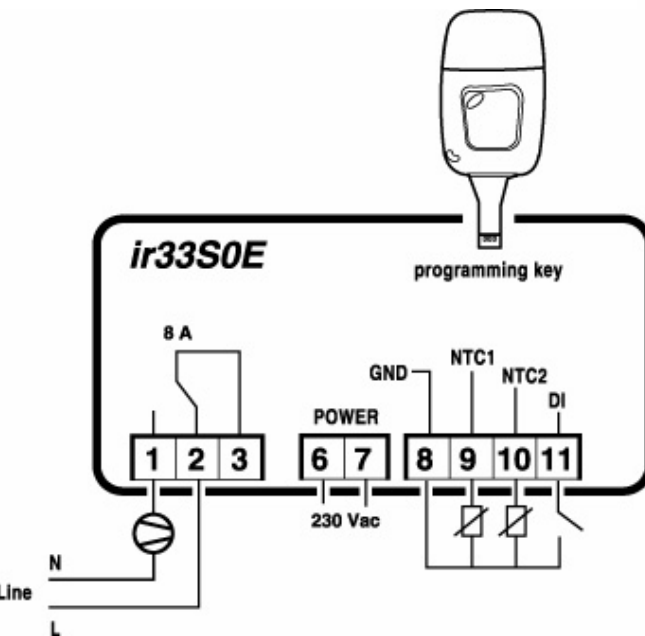
IR33: main electrical diagrams

New !

**4 relays,
115/230 Vac**



**1 to 3 relays, 230
Vac**



IR33: accessories

✓ External display for versions with switching power supply



✓ Optional RS485 serial board for all models



✓ Models with built-in Real Time Clock



✓ Programming key



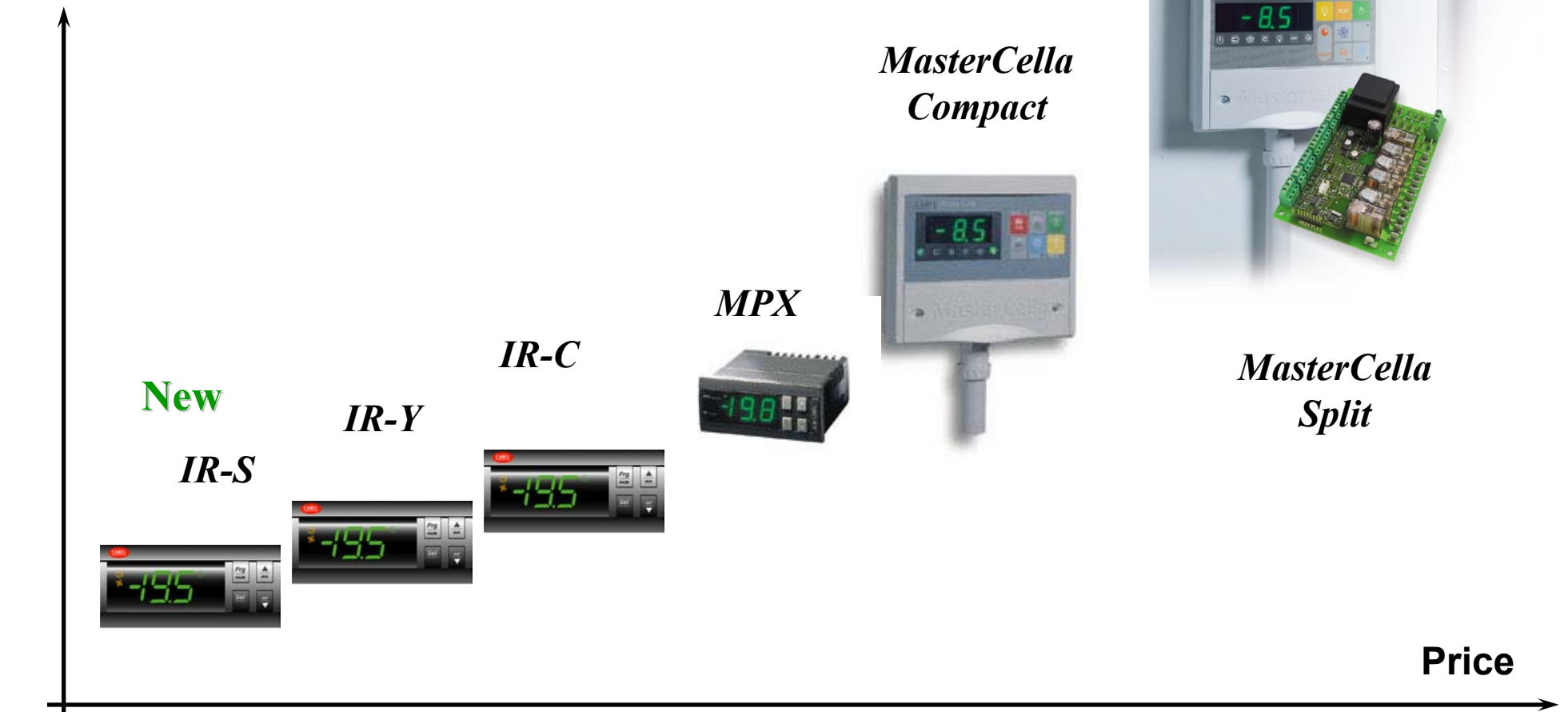
✓ Infrared option for remote control





Range positioning

Performance



Plug-in range



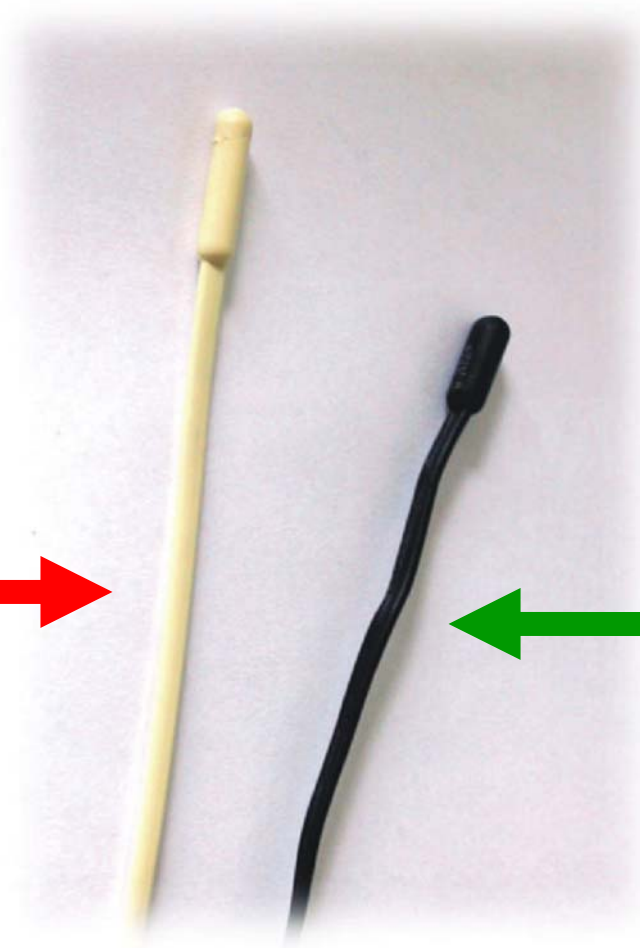


New NTC probes

NTC0HT00**

0T150 °C

**(1.000 pcs on
stock)**



NTC0HP00**

-40T90 °C





Time to market

Product launch plan & documentation



~~01/09/2003 (completed)~~
product available



IKK 2003 Preview
January 2004



Mostra Convegno 2004
Preview
June 2004



www.carel.com



**Now it's high time
to think about
something new.**

Thanks to IR32.





Ir32: Success factors

**Green LED: more attractive,
distinguishing if compared to the
competitors' products**

**4 relays, 2
programmable digital
inputs, optional serial**



Ergonomic keypad

Innovative and pleasant aesthetic



IR33: next steps

Then new IR33 is a basic platform to develop new product ranges

Phase 1



Phase 2

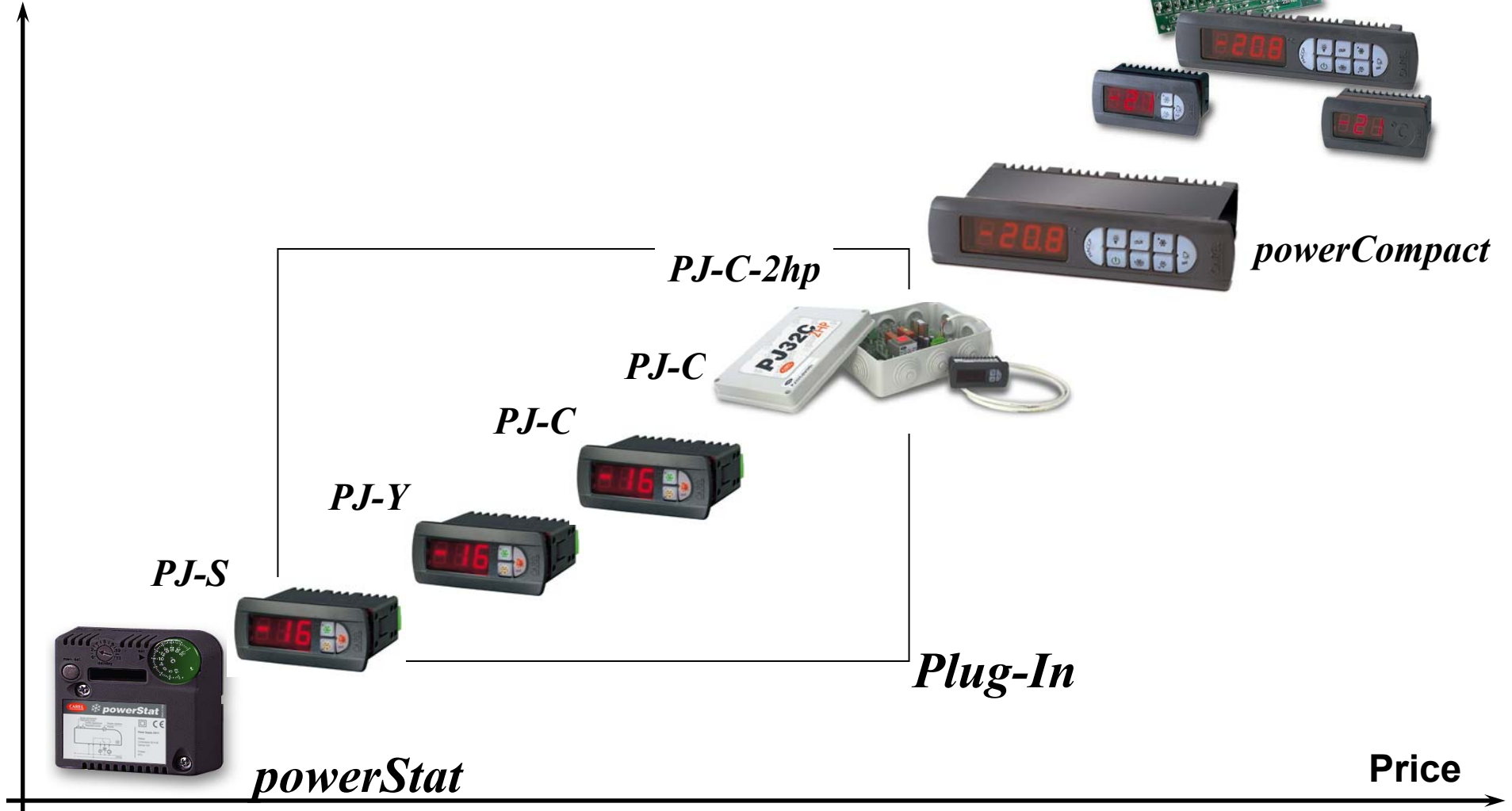


Phase 3



Range positioning

Performance

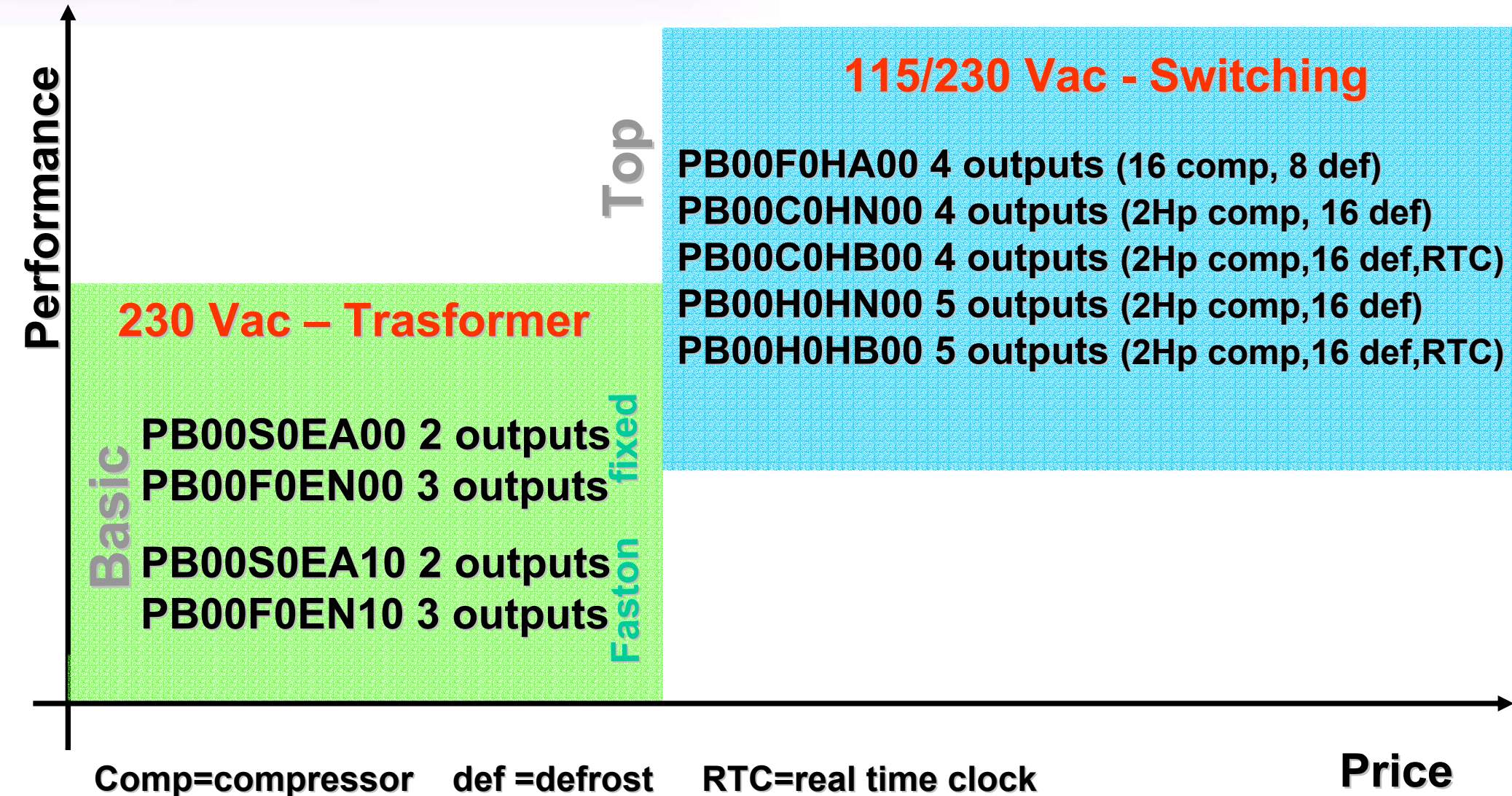


Plug-in range





powerCompact: models and placing in the market





The range

This product has been designed to complete the range of **plug-in** family, which have met a great approval in an interesting sector such as the catering industry.



Family feeling

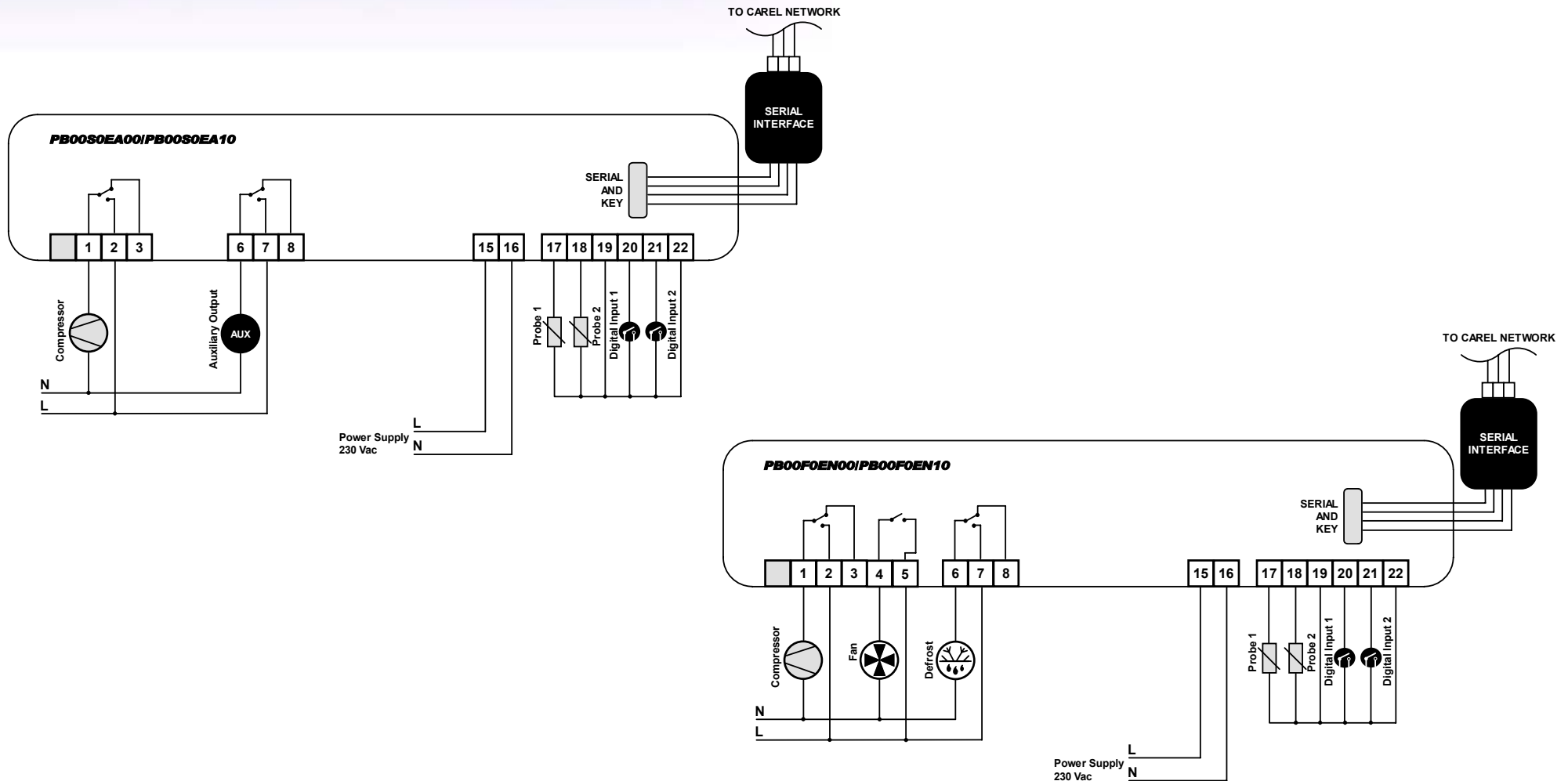
1. According to Carel the design has always been a decisive factor in the development of new products.
2. The plug-in range combines a pleasant appearance and high performances required by the user.



Family feeling & Customisation

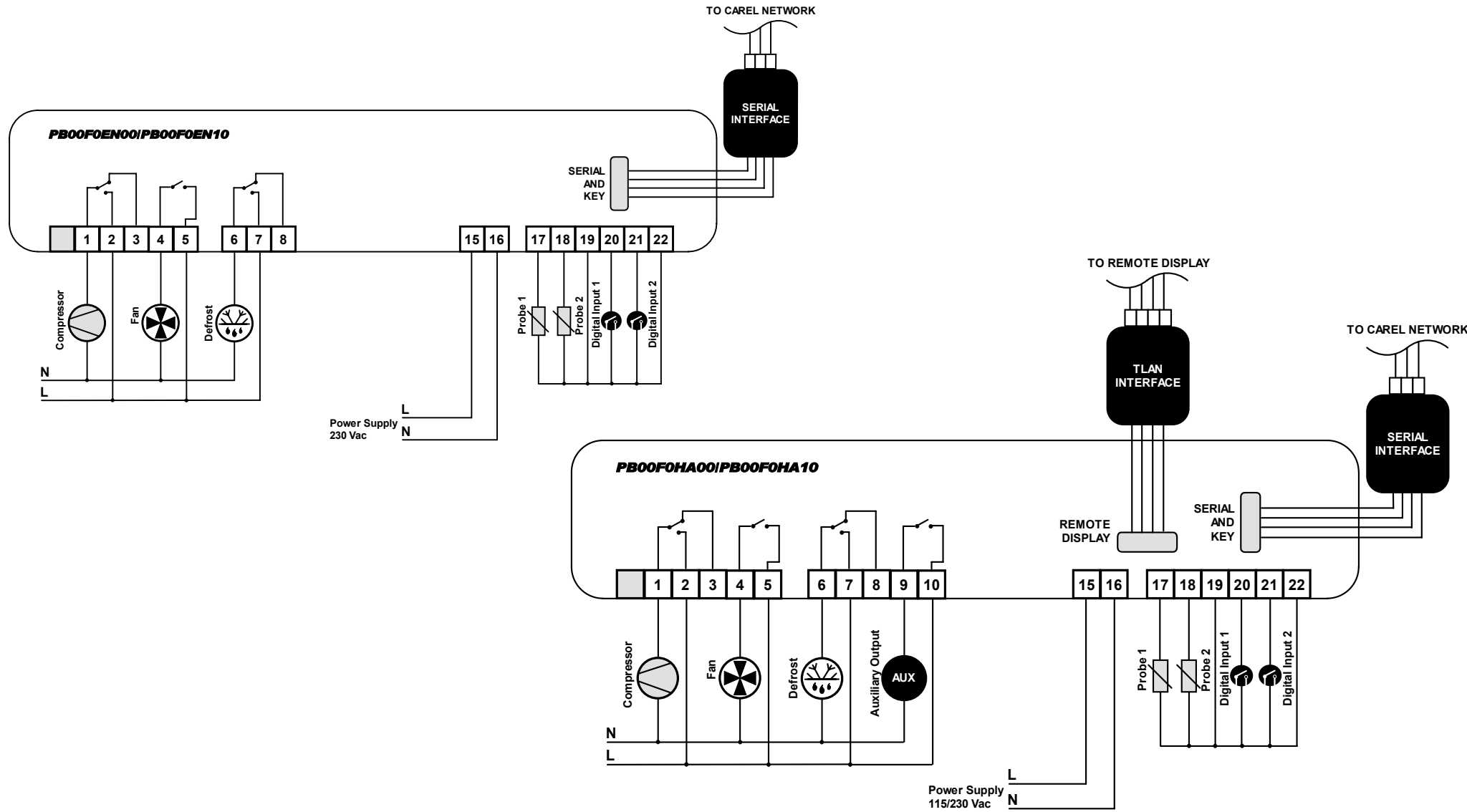


powerCompact – wiring diagrams



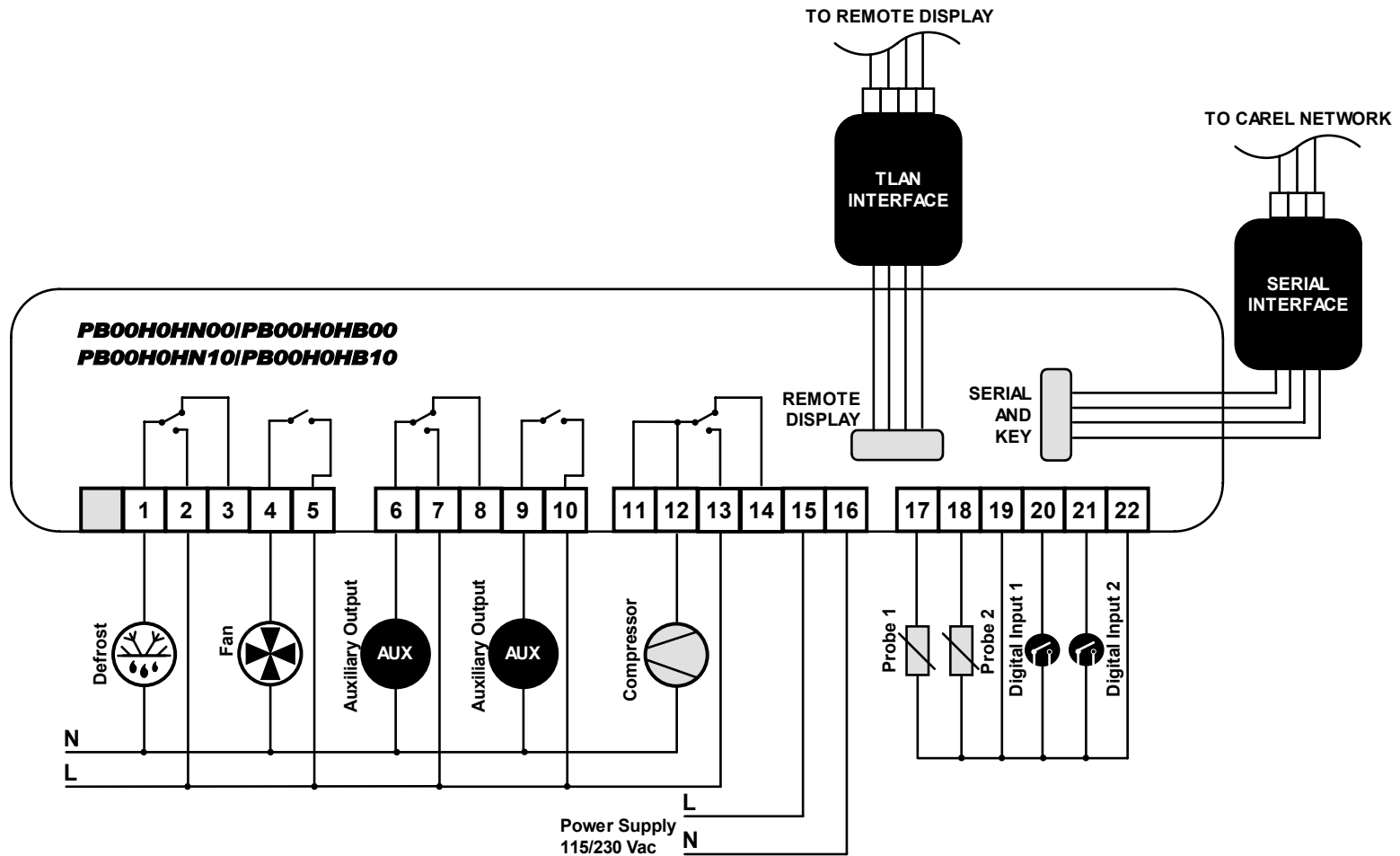


powerCompact – wiring diagrams



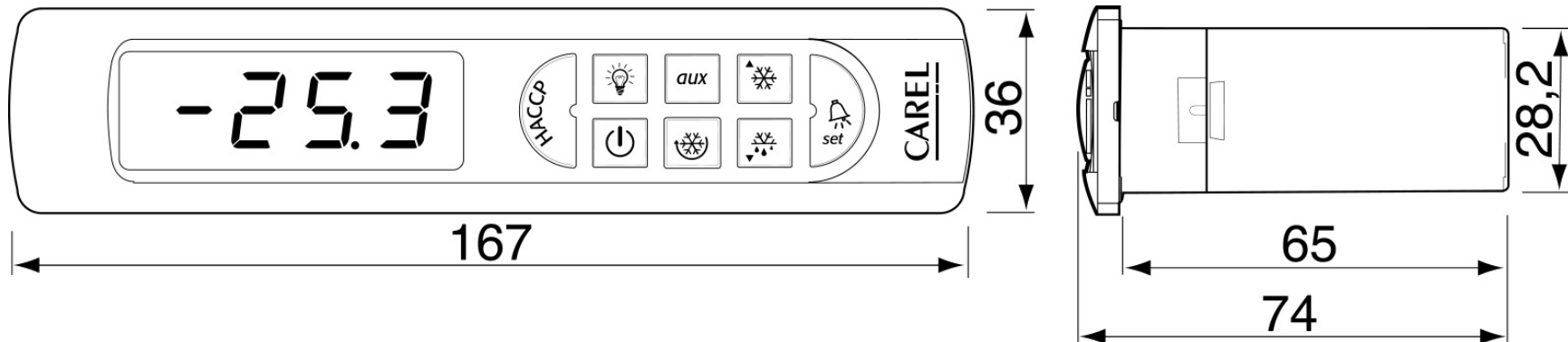


powerCompact – wiring diagrams



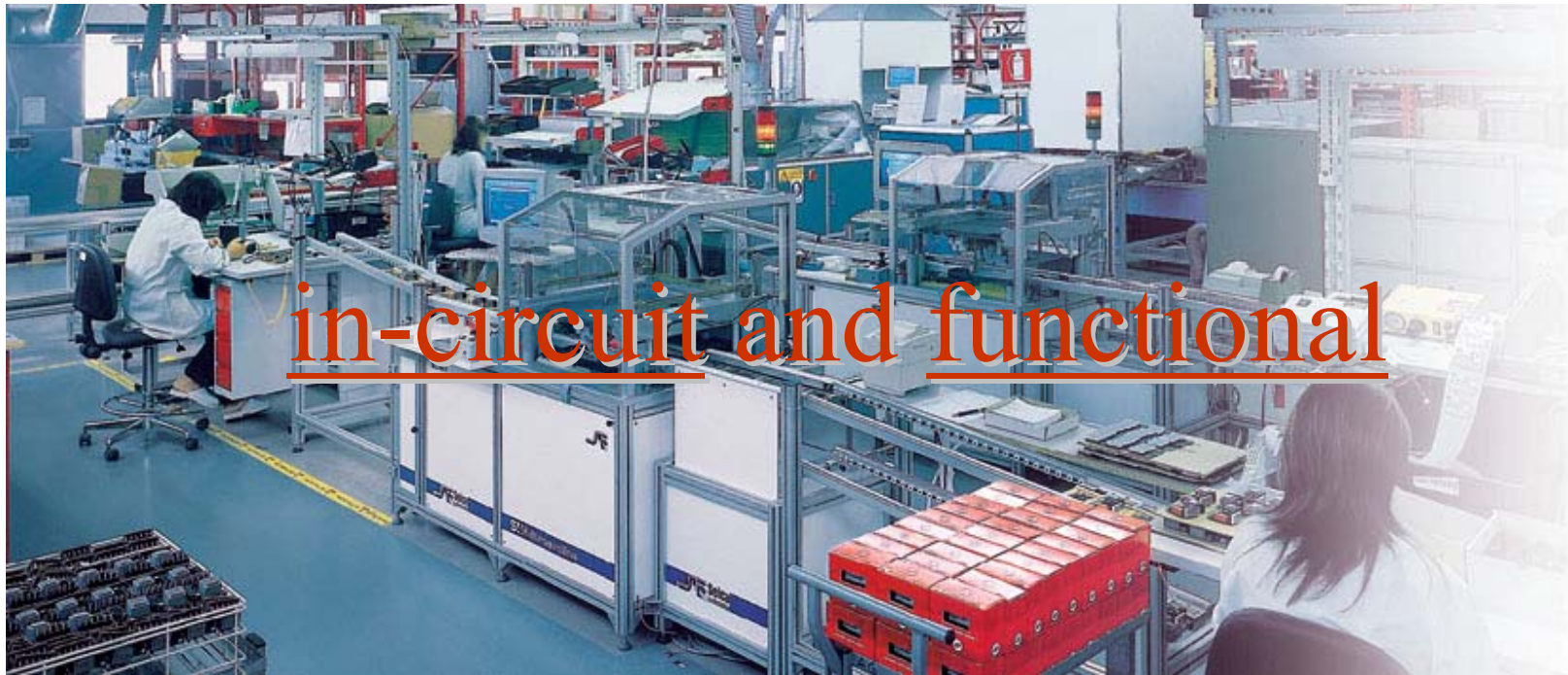


powerCompact: dimensions



Test, quality, reliability

100% of Carel production is submitted to two tests:



in-circuit and functional



From where have we started?

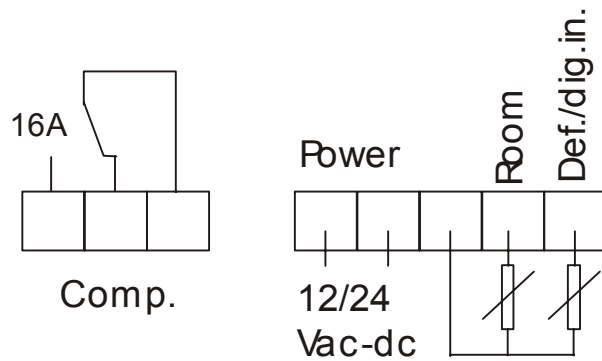
1. IR32 has been having a great success
2. Its characteristics has always been rewarded by the market
3. The new product will be destined mainly to the distributors and medium OEMs



IR33: new hardware

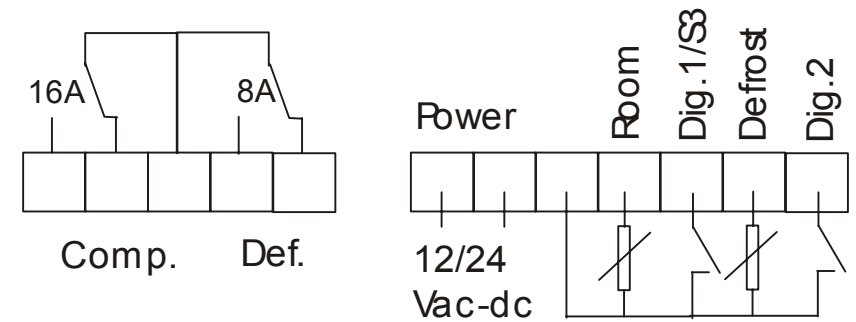
Ir33S00000 - 12Vac

Ir33S0L000 - 12/24 Vac-dc



Ir33Y00000 -12 Vac

Ir33Y0L000 - 12/24 Vac-dc

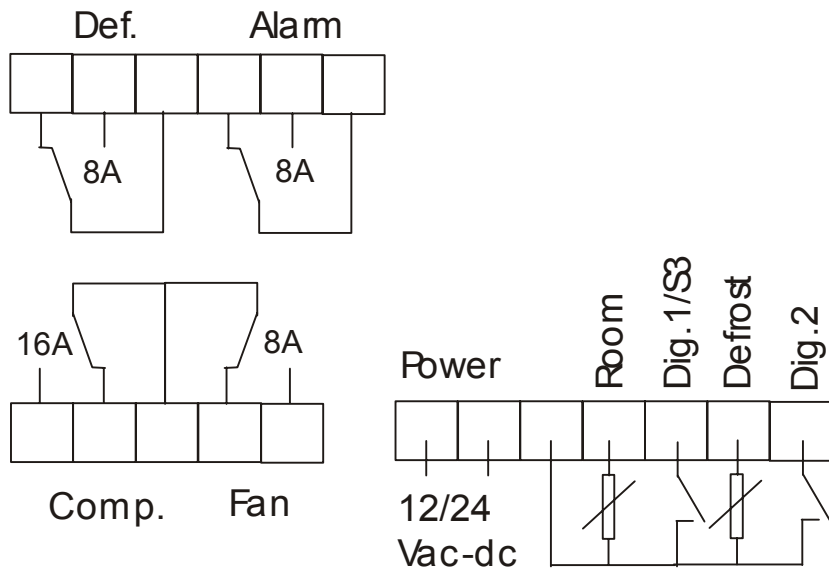




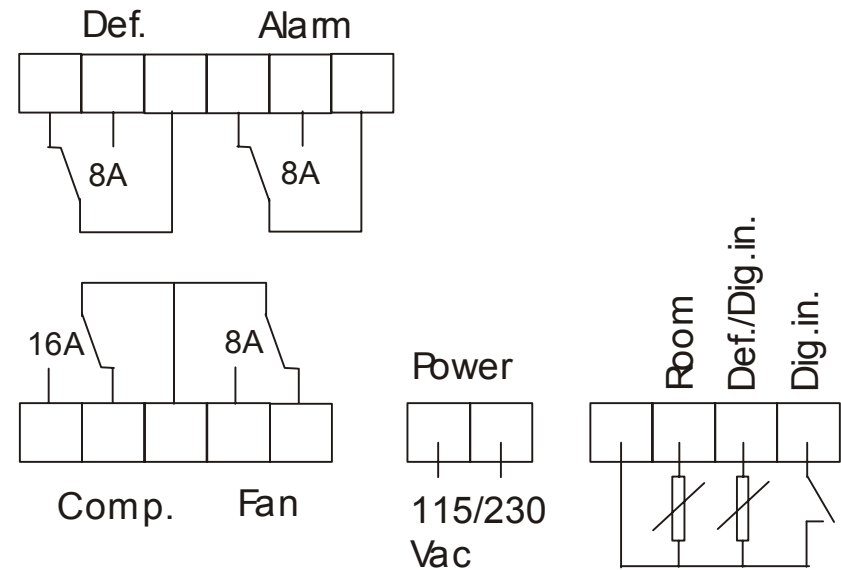
IR33: new hardware

Ir33F00000 - 12 Vac

Ir33F0L000 - 12/24 Vac-dc



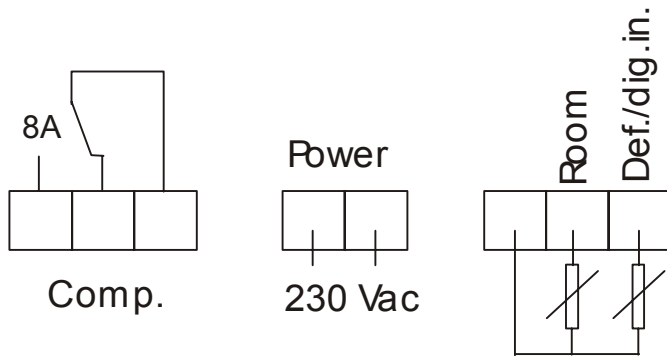
Ir33F0H000 - 115/230 Vac



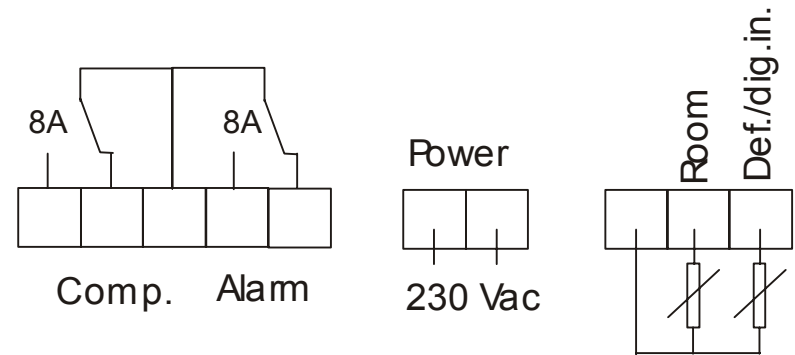


IR33: new hardware

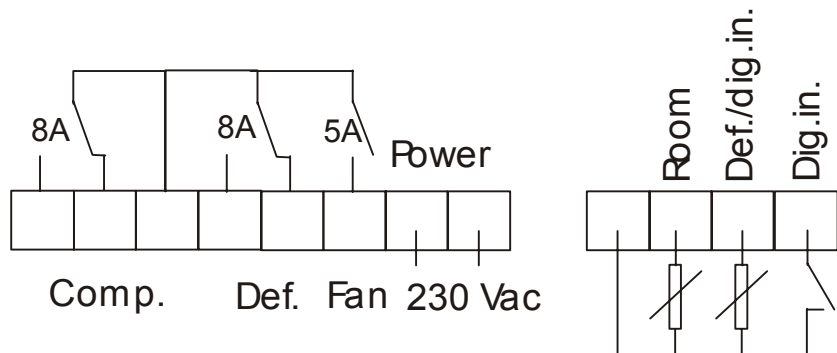
Ir33S0E000 - 230 Vac



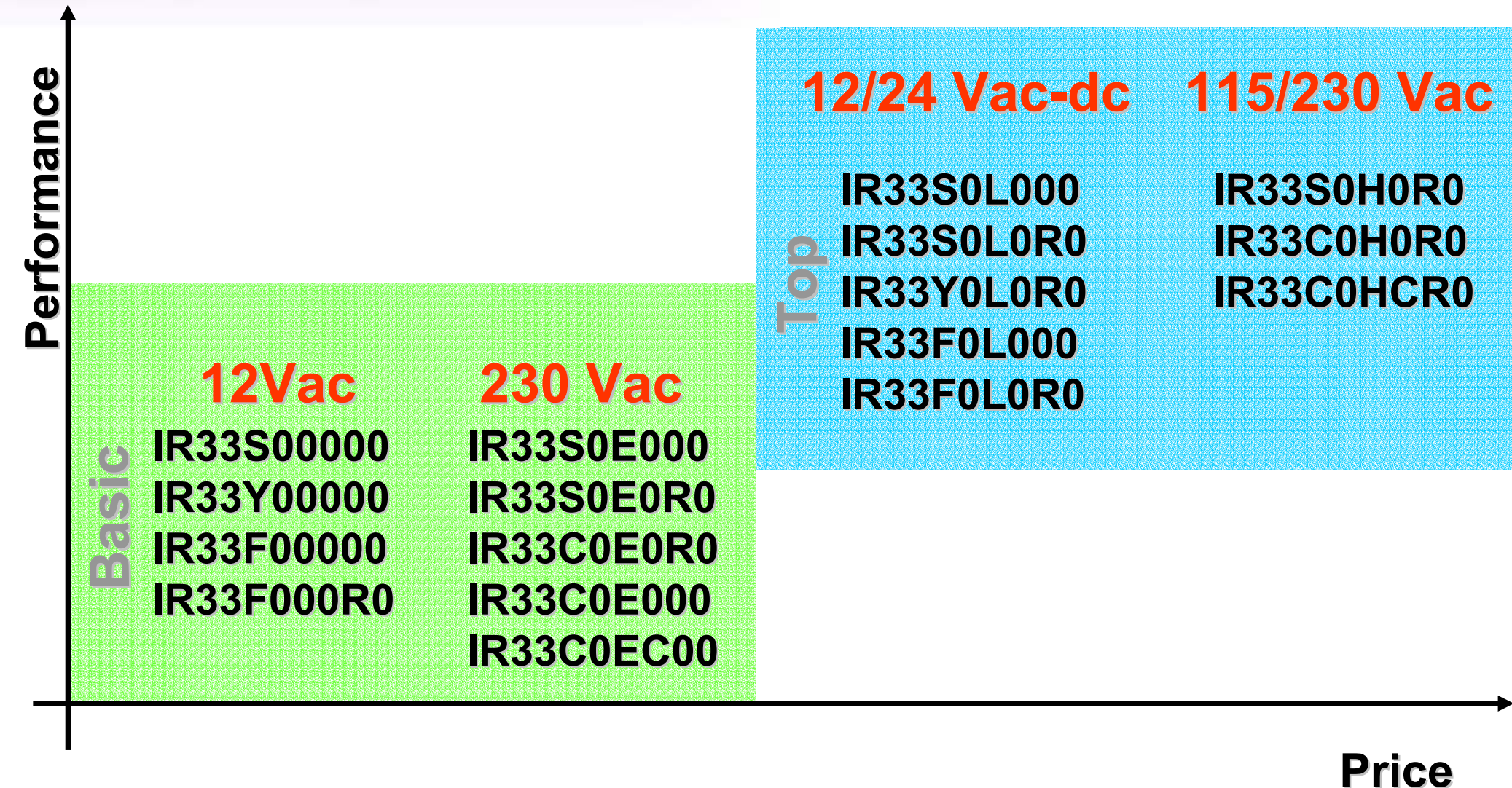
Ir33S0EA00 - 230 Vac



Ir33C0E000 - 230 Vac



Ir33: models and





Product Launch Plan

New



	31/01/2003	31/05/2003	19/09/2003
Launch plan			
Brochure	14/02/2003	13/06/2003	30/09/2003
Showcase	28/02/2003	30/06/2003	18/10/2003
Posters for Sales Network ITA/GB/D	14/02/2003	13/06/2003	30/09/2003