

# HFE

## Single Phase Energy Optimising Soft Starter

The HFE is the ideal 'retrofit' energy optimising solution for Soft Starting single phase compressors such as those used in Supermarket refrigerators and chillers etc., and can yield between 10 -18% energy savings.

It has a rugged tin lid construction and can be mounted easily next to the machine or control panel. Installation of the unit is quick and simple due to the two wires in, two wires out' design. The unit is 'fit and forget' and there is no maintenance for the user.



### Main Features

**Retrofit, quick fit, simple wiring.**

- ✓ Quick and simple two wire in/out implementation means low cost install in existing equipment and rapid return on investment through energy and maintenance cost reduction.

**Energy Optimising.**

- ✓ Reduces required energy consumption when the chiller is not under load -10 - 18% saving in energy and related cost and carbon emissions.

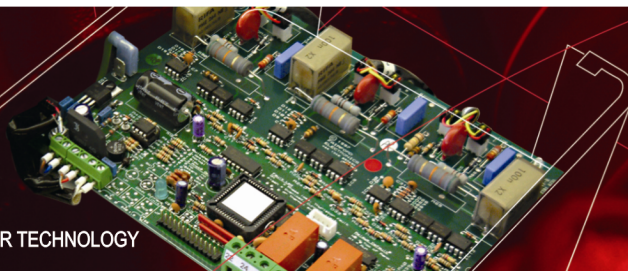
**Torque Reduction.**

- ✓ Mechanical and electrical stress reduction or elimination means compressors last longer and require less maintenance.

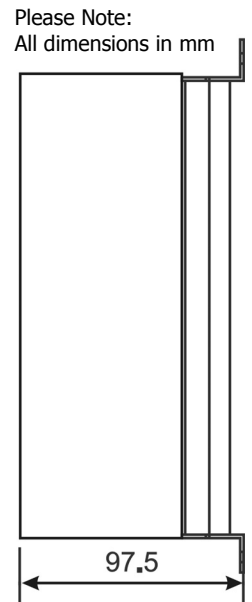
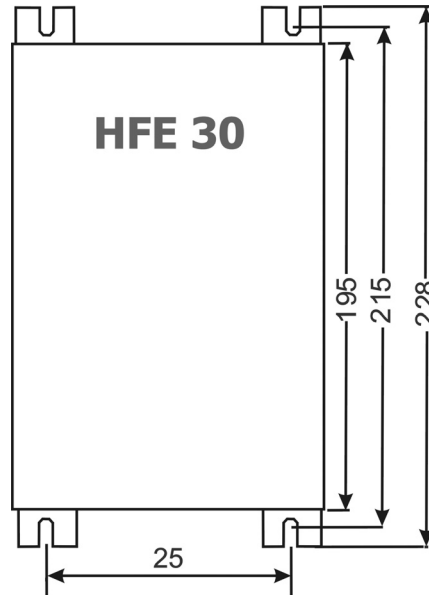
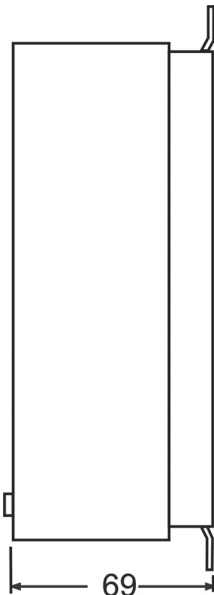
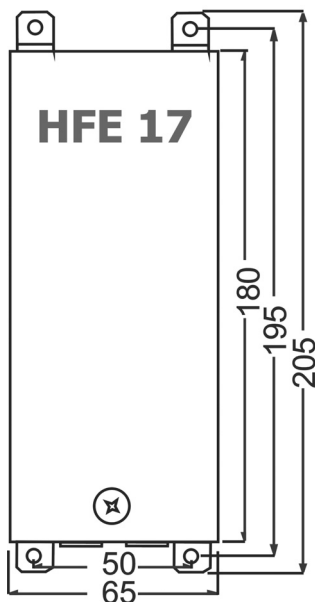
**'Fit and Forget'**

- ✓ No maintenance time or associated cost

Model (IP43)	Current (I)	Motor kW (240V)	Motor HP (240V)
HFE 17	17	2.2	3
HFE 30	30	4	5.5



<b>Operational Voltage (Ue)</b>	110 – 230 VAC or (-15% to +10%) Single Phase
<b>Frequency</b>	50/60 Hz +/- 2Hz
<b>Operational Current (Ie)</b>	HFE 17 – 17A with a 60% duty cycle or 13A Continuous HFE 30 – 30A Continuous
<b>Start Duty</b>	HFE 17 – 17A: AC53a: 2-3: 60-60 13A: AC53a: 3-2: 99-60 HFE 30 – 30A: AC53a: 3-3: 99-60
<b>Ingress Protection</b>	IP30 with standard cover.
<b>Start Time</b>	Approx 0.5 to 5 Seconds continuously variable
<b>Pedestal Voltage</b>	Fixed at approx 15%
<b>Ambient Temperature</b>	0°C to 40°C without de rating.
<b>Design Standards</b>	IEC 60947-4-2, EN 60947 – 4- 2 "AC Semiconductor Motor Controllers and Starters"
<b>Ideal Applications</b>	<ul style="list-style-type: none"> <li>• Refrigeration Systems</li> <li>• Conveyors</li> <li>• Oven Fans</li> <li>• Chillers</li> <li>• Coolers</li> <li>• Air Conditioners</li> </ul>



Please Note:  
All dimensions in mm

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