

The Sollatek FreoSave (FS05/10/15)

Electronic temperature control and protection for 'fridges and freezers

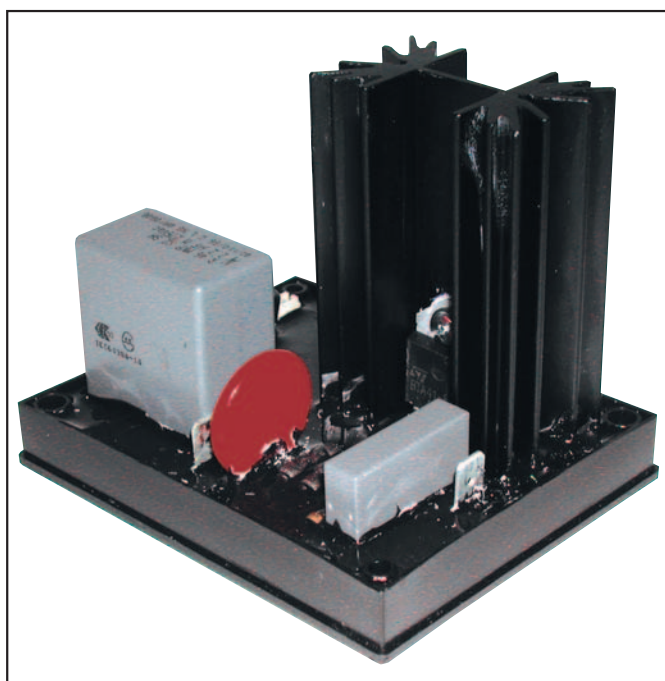
Introduction

As the problems associated with global warming become more widely recognised, measures to save energy, and therefore the environment, become increasingly desirable. The ES15 energy saver from Sollatek enables cooler manufacturers to produce a more energy-efficient product, thereby reducing CO2 emissions. This has the added benefit of allowing the cooler to comply with ever more stringent energy efficiency regulations.

Operation

The microprocessor within the ES15 is configured to provide modification of the supply waveform fed to the compressor. This can yield energy savings of up to 25% (dependent on compressor loading level). This technique also reduces heating in the compressor, and thereby extending service life. Energy savings gained from the ES15 are greatest when it is used with lightly loaded compressors, as is often the case with coolers.

The ES15 also incorporates a soft start feature that further extends compressor life by reducing starting current of up to 40%.



Features

- Energy saving of up to 25%.
- Reduction of compressor start-current by up to 40% through a soft-start feature.
- High and low voltage protection based on True RMS measurement.
- Over-load protection via True RMS Compressor current measurement.
- Reduced running costs and extended compressor life.
- Retro-fittable.
- Encapsulated against moisture.
- Easy to fit (4 wires only).
- Aids compliance with energy efficiency regulations.

Technical specifications

Product type	FreoSave05 FS05	FreoSave10 FS10	FreoSave15 FS15
Rated voltage	115V / 127V / 230V		
Rated compressor current	5 A	10 A	15 A
Energy saving	Up to 25% *		
Soft start Period	0.5 seconds		
Soft Start Initial Torque	50%		
High voltage limit	133V/ 147V /266V (customer specified)		
Low voltage limit	90V/ 99V /180V (customer specified)		
Surge protection	6.5kA		
Working frequency	Auto-sense 50/60Hz		
Power connections	0.25" spade terminals suitable for push-on crimps		
Unit dimensions (mm)	90 x 70 x 66	90 x 70 x 48	90 x 70 x 72
Unit weight (gms)	150	160	190
Packing specifications	Supplied in a carton containing 50 unit		
Carton dimensions (cm)	51 x 47 38		
Carton weight (Kgms)	9	9.5	11
Cartons per pallet	12		
Pallet dimensions (cm)	120 x 100 x 90		
Pallet weight (Kgms)	123	129	14

* Depends on compressor loading



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