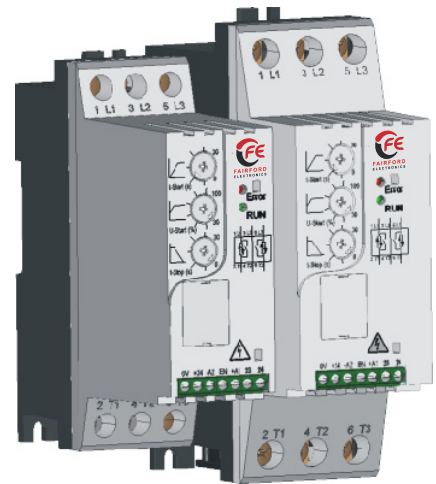


P^{FE} - Low-cost Soft Starter for Small AC Induction Motors

The PFE is the latest development from Fairford Electronics, who have 25 years of experience producing innovative designs in the soft start market.

With ratings from 2.2kW to 18.5kW, the PFE is ideally placed to support the majority of AC induction motors in use today. This makes the PFE the natural choice for distributors and customers alike.

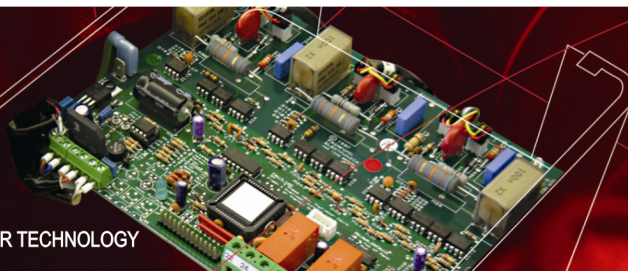
Benefiting from Fairford's excellence in engineering, the PFE combines the quality and reliability you have come to expect. This is one product that ticks all the boxes.



Main Features

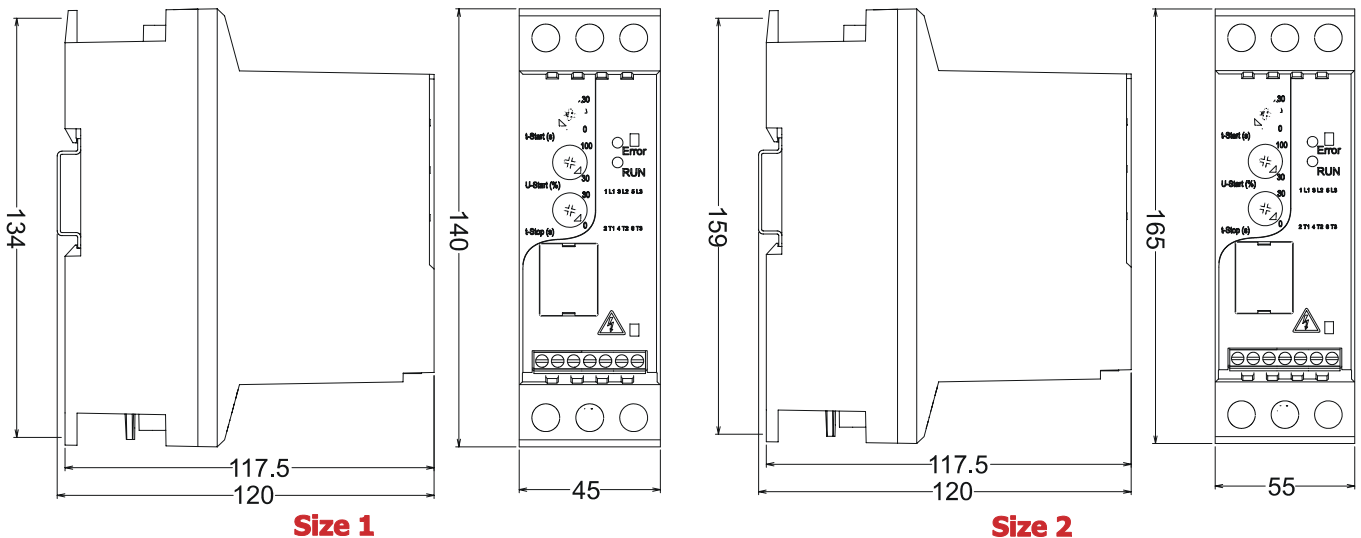
- ✓ Voltage: 230V AC - 460V AC
- ✓ Current: 5 - 36A (460V)
- ✓ Control Voltage: 24VDC
- ✓ Start Time: 1 - 30s
- ✓ Stop Time: 0 - 30s
- ✓ Start Pedestal Voltage: 30% - 100%
- ✓ Standard Duty: IE: AC53B : 3-5: 355
- ✓ Industry Standard 45mm width (up to 16A)
- ✓ DIN Rail Mounting
- ✓ Two Phase Control
- ✓ Internally Bypassed
- ✓ Over Current Protected
- ✓ Designed for: CE, UL, CSA, CCC
- ✓ OEM Labelling/Branding options

Model	Current (I)	Motor kW (400V)	Motor HP (460V)
PFE-02	5	2.2	3
PFE-04	7	3	5
PFE-06	9	4	6
PFE-08	12	5.5	7.5
PFE-10	16	7.5	10
PFE-12	22	11	15
PFE-14	30	15	20
PFE-16	36	18.5	25



Operational Voltage (Ue)	230-460 VAC rms 3-Phase (-15% +10%)
Rated Frequency	50 - 60Hz +/- 2Hz
Index Rating	Standard AC53a: 3-5: 99-10 Class 10A AC53a: 3-12: 99-10
Control Supply	24V DC approx 4VA supplied externally to terminals 0 - 24.
Enable and Start/Soft Stop	24V DC galvanically isolated terminals -A2, EN, +A1
Indication	Multi function LEDs on front panel
Start Time	1 to 30 seconds.
Stop Time	0 to 30 seconds
Start Duty	3 x FLC for 5 seconds at standard rating
Starts / Hour	10 starts per hour or 5 starts + 5 soft stops per hour. Up to 60 Starts/Hr with Optional Fan
Internally bypassed	
Power Terminals	Input 1/L1, 3/L2 & 5/L3 output 2/T1, 4/T2 6/T3. IP20 Rated wire clamping terminals (unit is IP20)
Ambient Temperature	0°C to 40°C. Above 40°C de-rate linearly by 2% of unit FLC per °C to a derate of 40% at 60°C
Transport and Storage	-25°C to +60°C
Altitude	1000m. Above 1000m de-rate linearly by 1% of unit FLC per 100m to a max altitude of 2000m.
Humidity	max. 85% non-condensing, not exceeding 50% at 40°C
IP Rating	IP20
Design Standards	IEC 60947-4-2; EN60947-4-2 "AC Semiconductor Motor Controllers and Starters"

Please Note:
All dimensions in mm



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