

## **X<sup>FE</sup> Optimising Soft Starters, 4 – 1800Amps**

The XFE Soft Starter range provides a combination of competitive prices, flexible start duty capability and overload protection. It benefits from having the same underlying engineering and pedigree as the QFE and has a variety of ratings and functions, including the option to use an external bypass contactor and a choice of Energy Optimising or non-Optimising modes. The XFE also has a number of ratings to match your specific application.



### **Main Features**

#### **Fairford Electronics Market Leading Automatic Application Set Up and Automatic Features.**

✓ Just select your application and the XFE Soft Starters Automatic Features will do the rest.

#### **Patented 'Fairford System' of Energy Optimising.**

✓ In certain load conditions Fairford System of Optimising can reduce energy costs by reducing power required by the application, without loss of performance.

#### **Manual Adjustment.**

✓ Allows the user to quickly adjust operating features to suit different applications.

#### **Adjustable Over-Current 'Shear Pin' Protection.**

✓ Removes the need for costly and time consuming mechanical shearpins.

#### **Adjustable Soft Starter Overload.**

✓ Protects the Soft Starter against damage due to over currents. (Please note this does not replace a motor overload).

#### **6 Button Keypad, 2 Line 32 Character Display.**

✓ Saves time programming and fault finding because the messages are displayed in English rather than in code format.

#### **Smooth Step Less Acceleration of Motors to Full Speed with Reduction of Inrush Currents.**

✓ Reduces mechanical and electrical strains on applications.

#### **Unit Records History of Last 5 Trips.**

✓ Allows the user to quickly determine which fault the Soft Starter has seen.

#### **Option of Modbus or Remote Keypod Operation.**

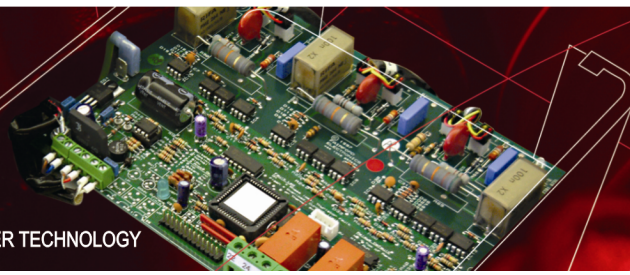
✓ Allows greater functionality.

#### **In Delta Capability.**

✓ Could reduce the size of the unit needed for the application.

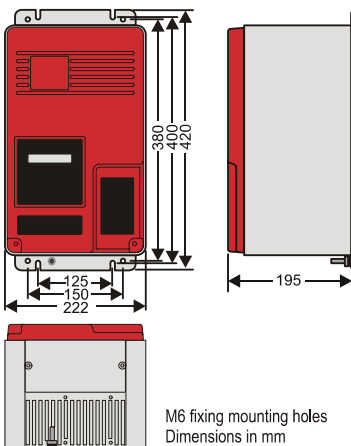
#### **Monitoring Menu.**

✓ Power Meter, Current, Cos Ø and many more.

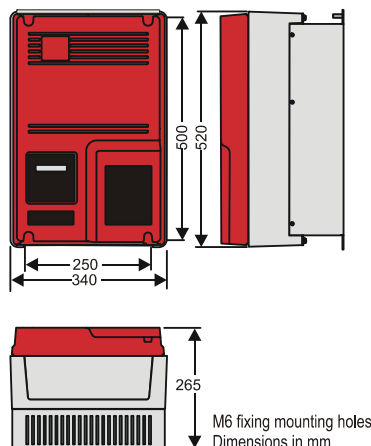


<b>Operational Voltage (Ue)</b>	230-460VAC rms, 400-575VAC rms or 500-690VAC rms 3-Phase (-15% +10%)
<b>Rated Frequency</b>	50 - 60Hz +/- 2Hz
<b>Index Ratings</b>	<p>Class 10B: AC53a: 3.5-12: 75-5  AC53a: 3.5-12: 60-3  AC53b: 3.5-12: 708  AC53b: 3.5-12: 1188</p> <p>Class 10: AC53a: 3-23: 75-5  AC53a: 3-23: 60-3  AC53b: 3-23: 708  AC53b: 3-23: 1188</p> <p>Class 20: AC53a: 4-19: 75-5  AC53a: 4-19: 60-3  AC53b: 4-19: 708  AC53b: 4-19: 1188</p> <p>Class 30: AC53a: 4-29: 75-5  AC53a: 4-29: 60-3  AC53b: 4-29: 708  AC53b: 4-29: 1188</p>
<b>Start Time</b>	1 to 255 Seconds
<b>Stop Time</b>	0 to 255 Seconds
<b>Control Supply Us</b>	X1, X2 115V or 230V AC rms (-15% +10%)
<b>Control Supply Uc</b>	S0, S1 12V/24V DC or 115/230VAC.
<b>Ingress Protection</b>	IP20 or IP00
<b>Ambient temperature</b>	0°C to 40°C. Above 40°C de-rate linearly by 2% of unit FLC per °C to a maximum of 40% at 60°C.
<b>Transport and Storage</b>	-25°C to +60°C (continuous), -25°C to +75°C (not exceeding 24 hours).
<b>Altitude</b>	Above 1000m de-rate linearly by 1% of unit FLC per 100m to a maximum altitude of 2000m.
<b>Humidity</b>	max. 85% non-condensing, not exceeding 50% at 40°C.
<b>Design standards and Approvals</b>	IEC 60947-4-2; EN 60947-4-2 'AC Semiconductor Motor Controllers and Starters'.

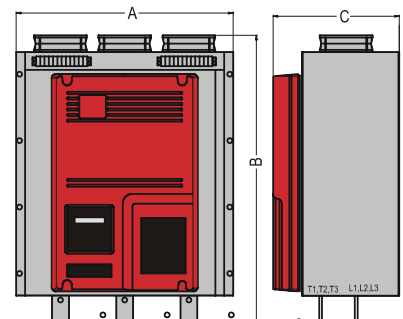
## X FE 100 Series IP20



## X FE 200 Series IP20



## X FE 300 Series IP00



XFE 300 Series Range Approximate Dimensions (mm)			
	A	B	C
XFE 302 to XFE 308	490	648	285
XFE 310	508	738	282
XFE 312 to XFE 318	635	746	322
XFE 320	635	782	322
XFE 322 to XFE 328	775	775	475

Please Note:  
All dimensions in mm

M10 fixing mounting  
holes  
Dimensions in  
mm

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