

## Chapter 2 Technical Details

### ELECTRICAL SPECIFICATIONS

PARAMETER	5831						N/A	UNITS
	582			583				
	0.37kW	0.55kW	0.75kW	1.1kW	1.5kW	2.2kW		
<b>INPUT RATINGS</b>								
Supply Voltage 1 or 3-phase	220/240 ± 10%	220/240 ± 10%	220/240 ± 10%	220/240 ± 10%	220/240 ± 10%	220/240 ± 10%	Volts AC	
Max Supply Current 1 ph 3 ph	4 3.5	6 3.5	8 5	10 6	15 9	20 12	Amps AC (RMS)	
Fuse Assembly 1ph	LA058085 U014	LA058085 U014	LA058085 U014	LA058085 U024	LA058085 U024	LA058085 U024		
Fuse Assembly 3ph			LA058085 U014	LA058085 U014	LA058085 U014	LA058085 U024	1 per phase	
Fuse Replacement 1ph	CH430014 10A	CH430014 10A	CH430014 10A	CH430024 20A	CH430024 20A	CH430024 20A		
Fuse Replacement 3ph			CH430014 10A	CH430014 10A	CH430014 10A	CH430024 20A	1 per phase	
Supply Frequency	50/60	50/60	50/60	50/60	50/60	50/60	Hz	
Power Factor (lag)	0.9	0.9	0.9	0.9	0.9	0.9		
<b>OUTPUT RATINGS</b>								
Output Ratings	220/240	220/240	220/240	220/240	220/240	220/240	Volts AC	
Max Output Current	2.2	3.0	4.0	5.5	7.0	10.0	Amps AC	
Output Frequency	0-100/120	0-100/120	0-100/120	0-100/120	0-100/120	0-100/120	Hz	
Heat Dissipation	25	40	50	65	100	130	Watts	
Output Power	0.37	0.55	0.75	1.1	1.5	2.2	kW	
Overload	150 30s	150 30s	150 30s	150 30s	150 30s	150 30s	%	

**ENVIRONMENTAL**

HUMIDITY	:	85% R.H. at 40°C (non condensing).
ALTITUDE	:	Above 1000m Derate 1%/100m.
ATMOSPHERE	:	Non- flammable, non-corrosive and dust free.
OPERATING TEMPERATURE	:	0 to 40°C (Derate 1.5%/Degree above 40°C up to 55°C).
582/583 ENCLOSURE	:	Chassis Mounted either IP00 or IP20.
5831 ENCLOSURE	:	Panel Mounted IP54.

**MECHANICAL**

		<b>Width(mm)</b>	<b>Height(mm)</b>	<b>Depth(mm)</b>	<b>Weight(kg)</b>
582 IP00	:	163	237	84	1.0(1.2)
582 IP20	:	170	247	97	1.9(2.1)
582 IP20 with Gland Plate	:	170	280	97	2.1(2.3)
582 IP20 with Op Station	:	170	247	117	1.9(2.1)
582 IP20 with GP and OS	:	170	280	117	2.1(2.3)
583 IP00	:	272	250	156	4.6
583 IP20	:	272	250	165	5.2
583 IP20 with Op Station	:	272	250	185	5.3
5831 IP54	:	188	255	150	5.5

*Weights in brackets refer to 0.75kW version*

MOUNTING ORIENTATION	:	Vertical
AIR FLOW CLEARANCE	:	70mm
POWER TERMINATIONS	:	Screw Connectors for 2.5mm wire 582 <sup>2</sup> or 4mm <sup>2</sup> 583/5831.
582 COVER REMOVAL:	:	Press small blunt instrument (e.g. screwdriver) into slot in side of cover and pull gently - see HG057848 for slot location.
583 COVER REMOVAL	:	Apply sensible pressure to left-hand side of cover until it comes free from lip of side plate. See drawing HG058065F.
5831 COVER REMOVAL	:	Four screws are provided at the corners of the cover when removed the cover can be lifted to allow access to the earth connection.
TERMINAL PLATE REMOVAL 582/583	:	Rotate either the single screw in the centre of the 583 plate, or the two side screws on the 582 to remove and gain access to the terminals and user adjustments.
GLAND PLATE ACCESS HOLES 582 ONLY	:	On the 582 a gland plate (LA057730) can be fixed to the mounting plate to accept 3 x 0.5" NPT conduit connectors, or, using adaptor ring BH058121 in each position, 3 x M20 conduit connectors. If a gland plate is used the old terminal plate should be discarded and the new one provided in the kit used.
GLAND PLATE ACCESS 5831	:	On the 5831 a gland plate is provided as a force fit into base.

