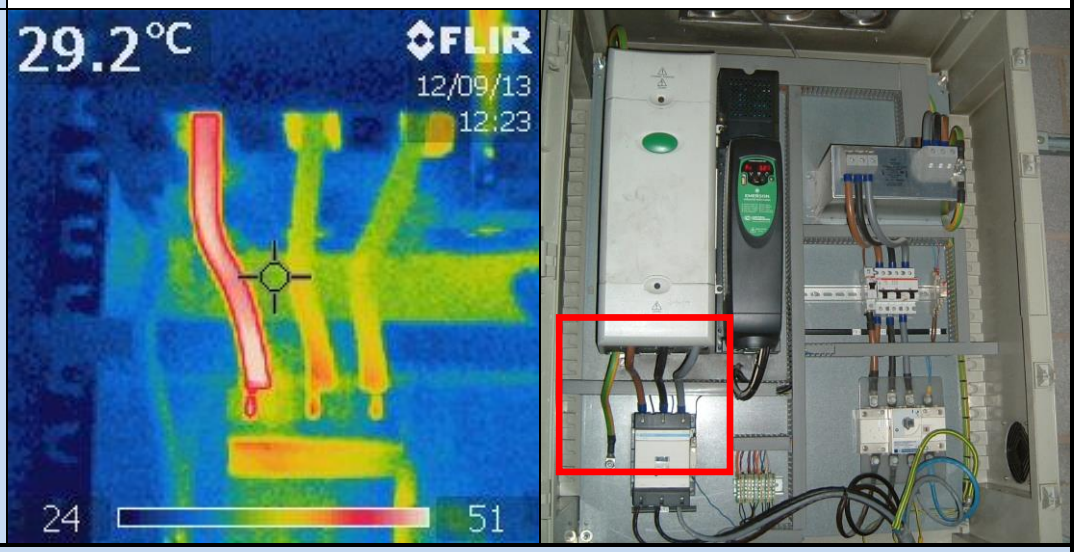
Customer:	xxxxxxx		
Site:	-		
Job No:	130128A		
Action Note No:	XXX 13-006		
Panel ID No.:	EPS 0027	**Fault temperature, °C:**	63.8
Machine Tag No.:	P01001	**Reference temperature, °C:**	45.3
Description:	Tower 2 Propeller Pump	**Ambient temperature, °C:**	23.0
Date Raised:	16/09/13	**Load, Amps:**	80
Report By:	Andy Mellor	**Full Load Current, Amps:**	85
Contact No:	07913-493151	**Rise over Reference at FLC, °C:**	20.6
E-Mail:	andy.mellor@pmar.co.uk	**Max temp at FLC, 25°C Ambient, °C:**	70.5

Asset Health	**Serious**	**IR**	**Serious**	**UE**	**NS**
		Visual	**OK**	**Other**	**NS**

Report:

Significant temperature rise on brown phase between inverter and contactor. Hottest temperature is at connection to contactor but connection to inverter also shows temperature rise (see over for additional images). Phase currents compared and found to be 79 A (Brown) & 81 A (Black & Grey).
The maximum projected temperature is at the limit for PVC insulation.
Exact cause uncertain as thermal profile does not match expected profile from poor connection.

Images:



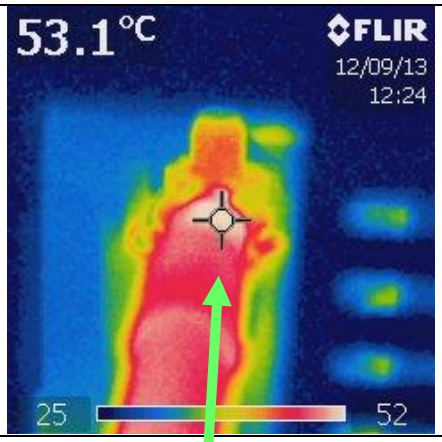
Recommendations:

In the first instance, check at both inverter and contactor for: 1) loose connection, 2) improperly made crimped connections. Suggest replacement cable is made up and installed in order to minimise pump downtime.

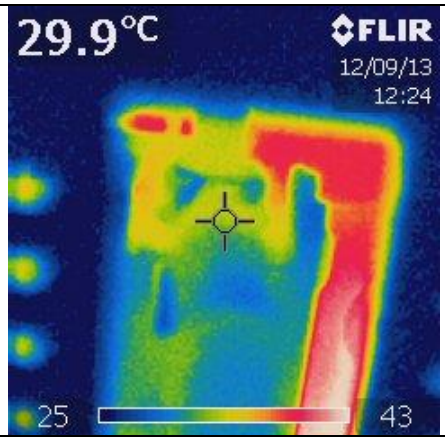
Feedback:

Please provide feedback following remedial action:

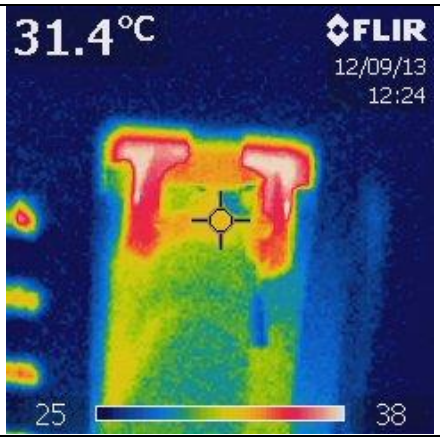
Pragmatic Maintenance and Reliability Ltd
62 Brooklands Drive | Goostrey | Cheshire | CW4 8JD | United Kingdom
Telephone +44 (0)1477 537095 | Email info@pmar.co.uk | Web www.pmar.co.uk
Registered in England Number 7459453 VAT Registration Number 103 9271 43



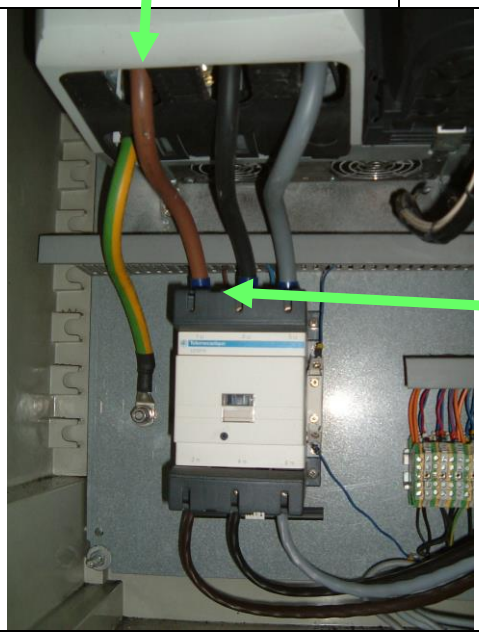
Connection to Inverter, Brown phase



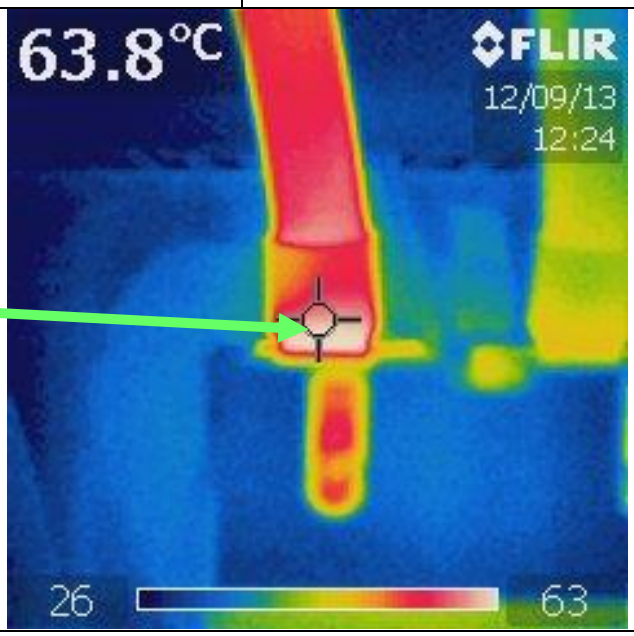
Connection to Inverter, Black phase



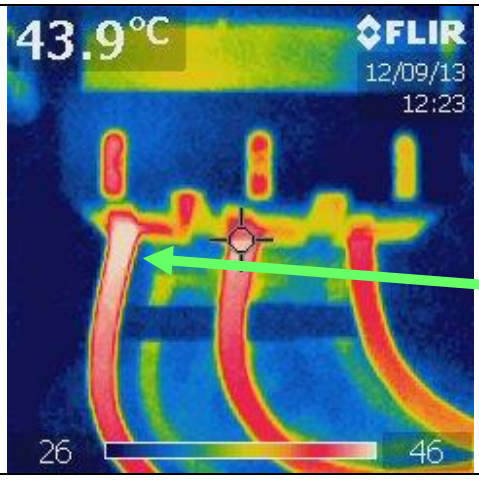
Connection to Inverter, Grey phase



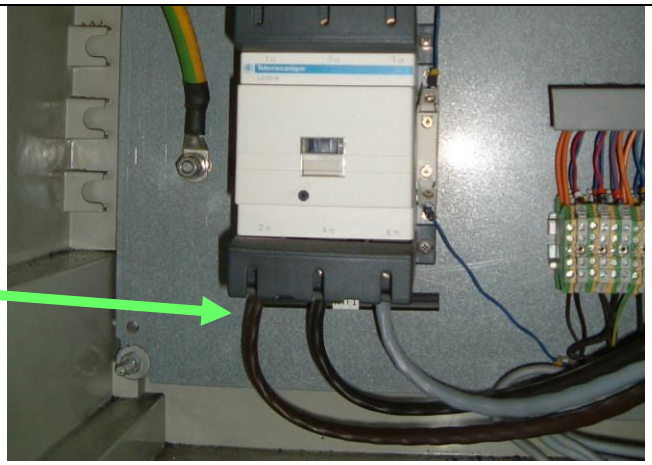
Close-up of contactor and bottom of inverter



Connection to top of contactor, Brown phase (left) and Black phase (right)



Connections to bottom of contactor, Brown phase is at left



Close-up of contactor

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