LiCONiC INSTRUMENTS

Title:	Cooler Compressor Conditions			ID:
				127
19.03.13	Response:	Model:		Author:
		-		CMa

STC Cooler Unit
Compressor Activate Conditions

Firmware

Version V3.0.00

Main Unit (3000=1)

1 1st Stage R404A

Contact	Type	Status	Comment
5003	Relay	1	*Delay T41 after power on (10s)*
1403	Flip-Flop	1	*Triggered by 5003 if not in service mode*
013	Relay	0	*Manual Switch*
006	Relay	1	*1st stage Compressor Over-Temperature Switch*
007	Relay	0	*1st stage Compressor Low-Pressure Switch*
3408	Flip-Flop	0	*Triggered by 008 1st stage Compressor Over-Pressure Switch, Reset by 1900*
014	Relay	1	*Power Voltage ok*
503	Relay	1	*Output to 1st stage Compressor Power Relay*

2 2nd Stage R508B

Contact	Type	Status	Comment
6500	Relay	1	*Stepper Valve successfully initialized*
T4	Relay	1	*Timer T004 delay 1st stage running, triggered by 004, 300s*
1703	Relay	1	*Temperature refrigerant < -10°C, DM984<DM894, delayed by T22*
T45	Relay	1	*Delay 10s*
1709	Flip-Flop	0	*2nd Stage Over-Temperature, triggered by DM983>#1100 and delayed by T29 (3600s), reset by power-cycle*
5004	Relay	1	
1404	Flip-Flop	1	*Triggered by 5004 if not in service mode*
013	Relay	0	*Manual Switch*
010	Relay	1	*2nd stage Compressor Over-Temperature Switch*
011	Relay	0	*2nd stage Compressor Low-Pressure Switch*
012	Relay	0	*2nd stage Compressor Over-Pressure Switch*
014	Relay	1	*Power Voltage ok*
504	Relay	1	*Output to 2nd stage Compressor Power Relay*

Auxiliary Unit (3001=1)

1   1st Stage R404A

Contact	Type	Status	Comment
5003	Relay	1	*Manual switch 000=1 or* *Error input 003=0 or* *Defrost Feed-Back 009=1* *delayed by T41 (10s)*
1403	Flip-Flop	1	*Triggered by 5003 if not in service mode*
013	Relay	0	*Manual Switch*
006	Relay	1	*1st stage Compressor Over-Temperature Switch*
007	Relay	0	*1st stage Compressor Low-Pressure Switch*
3408	Flip-Flop	0	*Triggered by 008 1st stage Compressor Over-Pressure Switch, Reset by 1900*
014	Relay	1	*Power Voltage ok*
503	Relay	1	*Output to 1st stage Compressor Power Relay*

2   2nd Stage R508B

Contact	Type	Status	Comment
6500	Relay	1	*Stepper Valve successfully initialized*
T4	Relay	1	*Timer T004 delay 1st stage running, triggered by 004, 300s*
1703	Relay	1	*Temperature refrigerant < -10°C, DM984<DM894, delayed by T22*
T45	Relay	1	*Delay 10s*
1709	Flip-Flop	0	*2nd Stage Over-Temperature, triggered by DM983>#1100 and delayed by T29 (3600s)*
5004	Relay	1	
1404	Flip-Flop	1	*Triggered by 5004 if not in service mode*
013	Relay	0	*Manual Switch*
010	Relay	1	*2nd stage Compressor Over-Temperature Switch*
011	Relay	0	*2nd stage Compressor Low-Pressure Switch*
012	Relay	0	*2nd stage Compressor Over-Pressure Switch*
014	Relay	1	*Power Voltage ok*
504	Relay	1	*Output to 2nd stage Compressor Power Relay*