Systems Integration

YORK ISN Enhanced Driver: YK Centrifugal “Super Chillers”

Table 1. YK APOGEE Points, Application Number: 5858.

Point	Type	Description	Range/Units[a b c]
1	LAO	Device Address	–
2	LAI	Device Application	–
3	LAO	Logon Password	–
4	LAO	Open Password	–
5	LDI	Yorktalk Translator Communication Status	Normal/Fail
8	LDI	Device Communication Status	Normal/Fail
9	LAI	Leaving Chilled Water Temperature Set Point	°F *°C*
10	LAI	Remote Current Set Point	%
11	LDI	Start/Stop Status	Off/On
12	LDI	Fixed/Variable Speed Select	Fixed/Variable
13	LAI	Leaving Chilled Water Temperature	°F *°C*
14	LAI	Entering Chilled Water Temperature	°F *°C*
15	LAI	Evaporator Pressure	psig *kPa*
16	LAI	Condenser Pressure	psig *kPa*
17	LAI	Oil Differential Pressure	psig *kPa*
18	LAI	Entering Condenser Water Temperature	°F *°C*
19	LAI	Leaving Condenser Water Temperature	°F *°C*
20	LAI	% Motor Current	%
21	LAI	Phase A Current	A
22	LAI	Phase B Current	A
23	LAI	Phase C Current	A

continued on next page...

Table 1. YK APOGEE Points, Application Number: 5858. ***(continued)***

Point	Type	Description	Range/Units[a b c]
24	LAI	Phase A-B Line Voltage	V
25	LAI	Phase B-C Line Voltage	V
26	LAI	Phase C-A Line Voltage	V
27	LAI	Leaving Chilled Water Temperature Actual Set Point	°F *°C*
28	LAI	Remote/Local Current Actual Set Point	%
29	LAI	Evaporator Saturation Temperature	°F *°C*
30	LAI	Condenser Saturation Temperature	°F *°C*
31	LAI	Discharge Temperature	°F *°C*
32	LAI	Oil Temperature	°F *°C*
33	LAI	Refrigerant Level3	psig *kPa*
34	LAI	Accumulated Operating Time	hrs
35	LAI	Accumulated System Starts	–
36	LAI	Low Oil Transducer Pressure	psig *kPa*
37	LAI	High Oil Transducer Pressure	psig *kPa*
38	LDI	Compressor Motor Status	Off/On
39	LDI	Vent Valve Status 1	Off/On
40	LDI	Chilled Water Pump Status	Off/On
41	LDI	Start Switch Status	Off/On
42	LDI	Chilled Water Flow Switch Status3	Off/On
43	LDI	Adaptive Capacity Control Valid Surge Map3	Off/On
44	LDI	Adaptive Capacity Control New Surge Point3	Off/On
45	LDI	Vsd Cooling Pump Running3	Off/On
46	LDI	Vsd Ieee 519 Filter Present3	No/Yes
47	LDI	Surge Detection Type3	Curent/Deltpp
48	LAI	Anti-Recycle Time Left	mins
49	LAI	Operating Mode	–
50	LAI	Operating Code	–
51	LAI	Safety Shutdown Code	–
52	LAI	Cycling Code	–

continued on next page...

Table 1. YK APOGEE Points, Application Number: 5858. ***(continued)***

Point	Type	Description	Range/Units[a] [b] [c]
53	LAI	Vsd Internal Temperature3	°F *°C*
54	LAI	Vsd Converter Heatsink Temperature3	°F *°C*
55	LAI	Acc Prv Position3	–
56	LAI	Acc Frozen Output Frequency3	Hz
57	LAI	Refrigerant Level Set Point3	–
58	LAI	Proximity Sensor Actual Position	–
59	LAI	Proximity Sensor Reference Position	–
60	LAI	Drain Line Thermocouple Temperature	°F *°C*
61	LAI	Acc Frozen Delta P/P3	–
62	LAI	Variable Speed Drive Output Voltage3	V
63	LAI	Variable Speed Drive Input Kw3	kW
64	LAI	Variable Speed Drive I/P Mwh3	MWh
65	LAI	Variable Speed Drive Dc Link Voltage3	V
66	LAI	Variable Speed Drive Dc Link Current3	A
67	LAI	Variable Speed Drive Surge Count3	–
68	LAI	Variable Speed Drive Output Frequency3	Hz
69	LAI	Variable Speed Drive Maximum Voltage Thd3	–
70	LAI	Variable Speed Drive Maximum Current Tdd3	–
71	LAI	Variable Speed Drive Input Kva3	kVA
72	LDO	Chiller Start/Stop	Off/On
73	LAO	Leaving Chilled Water Temperature Set Point	°F *°C*
74	LAO	Load Limit Set Point	%

[a] Values noted for LDIs and LDOs are in the following format: OFF text/ON text.

[b] This column indicates the value/range or engineering units or both if known.

[c] The default English value is not italicized. An italicized entry indicates an SI value.

Siemens Building Technologies, Inc.
1000 Deerfield Parkway
Buffalo Grove, IL 60089-4513
U.S.A.