Systems Integration

LONWORKS® Solution for Square D Altivar 78 Variable Frequency Drive

Table 1. Altivar 78 APOGEE Points, Application Number: 9124, Program ID: 80:00:BD:3C:0A:02:04:04.

Point	Type	Description	Range/Units[a b c]
1	LAO	Dry Speed Command Value	%
2	LAO	Dry Speed Command State	–
3	LAI	Dry Speed	%
4	LAO	Dry Speed Scale	%
5	LAI	Dry Current	A
7	LAI	Dry Power	kW
8	LAI	Dry Run Hours	HR
9	LAO	Process Input 1	%
10	LAO	Process Input 2	%
11	LAO	Process Input 3	%
12	LAO	Process Input 4	%
13	LAO	Process Input 5	%
14	LAO	Process Input 6	%
15	LAO	Process Input 7	%
16	LAO	Process Input 8	%
17	LAO	Reset Fault Value	%
18	LAO	Reset Fault State	–
19	LAO	Clear Control Value	%
20	LAO	Clear Control State	–
21	LAO	Digital Input Value	%
22	LAO	Digital Input State	–
23	LAO	Digital Input 2 Value	%
24	LAO	Digital Input 2 State	–
25	LAO	Digital Input 3 Value	%
26	LAO	Digital Input 3 State	–
27	LAO	Digital Input 4 Value	%

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Table 1. Altivar 78 APOGEE Points, Application Number: 9124, Program ID: 80:00:BD:3C:0A:02:04:04. ***(continued)***

Point	Type	Description	Range/Units[a b c]
28	LAO	Digital Input 4 State	–
29	LAO	Digital Input 5 Value	%
30	LAO	Digital Input 5 State	–
31	LAO	Digital Input 6 Value	%
32	LAO	Digital Input 6 State	–
33	LAO	Digital Input 7 Value	%
34	LAO	Digital Input 7 State	–
35	LAO	Digital Input 8 Value	%
36	LAO	Digital Input 8 State	–
37	LDI	Dry State B00	Off/On
38	LDI	Dry State B01	Stop/Run
39	LDI	Dry State B02	Forwrd/Revrse
40	LDI	Dry State B03	Normal/Fail
41	LDI	Dry State B04	Normal/Alarm
42	LDI	Dry State B05	Off/On
43	LAI	Dry Energy	kWh
48	LAI	Process Output 1	%
49	LAI	Process Output 2	%
50	LAI	Process Output 3	%
51	LAI	Process Output 4	%
52	LAI	Process Output 5	%
53	LAI	Process Output 6	%
54	LAI	Process Output 7	%
55	LAI	Process Output 8	%
56	LAI	Actual Fault	–
57	LAI	Digital Output 1 Value	%
58	LDI	Digital Output 1 State	Off/On
59	LAI	Digital Output 2 Value	%
60	LDI	Digital Output 2 State	Off/On
61	LAI	Digital Output 3 Value	%
62	LDI	Digital Output 3 State	Off/On
63	LAI	Digital Output 4 Value	%
64	LDI	Digital Output 4 State	Off/On
65	LAI	Digital Output 5 Value	%
66	LDI	Digital Output 5 State	Off/On

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Table 1. Altivar 78 APOGEE Points, Application Number: 9124, Program ID: 80:00:BD:3C:0A:02:04:04. ***(continued)***

Point	Type	Description	Range/Units[a] [b] [c]
67	LAI	Digital Output 6 Value	%
68	LDI	Digital Output 6 State	Off/On
69	LAI	Digital Output 7 Value	%
70	LDI	Digital Output 7 State	Off/On
71	LAI	Digital Output 8 Value	%
72	LDI	Digital Output 8 State	Off/On
200	LAO	Maximum Motor Speed CP Input	%
201	LAO	Minimum Motor Speed CP Input	%
202	LAO	Receive Heartbeat CP Input	sec
203	LAO	Nominal Motor Speed in RPM CP Input	rpm
204	LAO	Nominal Motor Frequency CP Input	HERTZ
205	LAO	Nominal Ramp Up Time CP Input	sec
206	LAO	Minimum Ramp Down Time CP Input	sec
208	LAO	Dry Speed Scale CP Input	%

[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.

Table 2. Altivar 78 LONWORKS Network Variables, Program ID: 80:00:BD:3C:0A:02:04:04.

Point	NVO Name	NVI Name	CP Name
1	–	nviDrvSpeedStpt.value	nviDrvSpeedStpt.value
2	–	nviDrvSpeedStpt.state	nviDrvSpeedStpt.state
3	nvoDrvSpeed	–	–
4	–	nviDrvSpeedScale	nviDrvSpeedScale
5	nvoDrvCurnt	–	–
7	nvoDrvPwr	–	–
8	nvoDrvRunHours	–	–
9	–	nviProcessIn1	nviProcessIn1
10	–	nviProcessIn2	nviProcessIn2
11	–	nviProcessIn3	nviProcessIn3
12	–	nviProcessIn4	nviProcessIn4
13	–	nviProcessIn5	nviProcessIn5
14	–	nviProcessIn6	nviProcessIn6
15	–	nviProcessIn7	nviProcessIn7
16	–	nviProcessIn8	nviProcessIn8
17	–	nviRstFault.value	nviRstFault.value
18	–	nviRstFault.state	nviRstFault.state
19	–	nviClrCntr.value	nviClrCntr.value
20	–	nviClrCntr.state	nviClrCntr.state
21	–	nviDigIn1.value	nviDigIn1.value
22	–	nviDigIn1.state	nviDigIn1.state
23	–	nviDigIn2.value	nviDigIn2.value
24	–	nviDigIn2.state	nviDigIn2.state
25	–	nviDigIn3.value	nviDigIn3.value
26	–	nviDigIn3.state	nviDigIn3.state
27	–	nviDigIn4.value	nviDigIn4.value
28	–	nviDigIn4.state	nviDigIn4.state
29	–	nviDigIn5.value	nviDigIn5.value
30	–	nviDigIn5.state	nviDigIn5.state
31	–	nviDigIn6.value	nviDigIn6.value

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Table 2. Altivar 78 LONWORKS Network Variables, Program ID: 80:00:BD:3C:0A:02:04:04. ***(continued)***

Point	NVO Name	NVI Name	CP Name
32	–	nviDigIn6.state	nviDigIn6.state
33	–	nviDigIn7.value	nviDigIn7.value
34	–	nviDigIn7.state	nviDigIn7.state
35	–	nviDigIn8.value	nviDigIn8.value
36	–	nviDigIn8.state	nviDigIn8.state
37	nvoDrvStatus.bit0	–	–
38	nvoDrvStatus.bit1	–	–
39	nvoDrvStatus.bit2	–	–
40	nvoDrvStatus.bit3	–	–
41	nvoDrvStatus.bit4	–	–
42	nvoDrvStatus.bit5	–	–
43	nvoDrvEnrgy	–	–
48	nvoProcessOut1	–	–
49	nvoProcessOut2	–	–
50	nvoProcessOut3	–	–
51	nvoProcessOut4	–	–
52	nvoProcessOut5	–	–
53	nvoProcessOut6	–	–
54	nvoProcessOut7	–	–
55	nvoProcessOut8	–	–
56	nvoActFault	–	–
57	nvoDigOut1.value	–	–
58	nvoDigOut1.state	–	–
59	nvoDigOut2.value	–	–
60	nvoDigOut2.state	–	–
61	nvoDigOut3.value	–	–
62	nvoDigOut3.state	–	–
63	nvoDigOut4.value	–	–
64	nvoDigOut4.state	–	–
65	nvoDigOut5.value	–	–

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Table 2. Altivar 78 LONWORKS Network Variables, Program ID: 80:00:BD:3C:0A:02:04:04. ***(continued)***

Point	NVO Name	NVI Name	CP Name
66	nvoDigOut5.state	–	–
67	nvoDigOut6.value	–	–
68	nvoDigOut6.state	–	–
69	nvoDigOut7.value	–	–
70	nvoDigOut7.state	–	–
71	nvoDigOut8.value	–	–
72	nvoDigOut8.state	–	–
200	–	–	nciMaxSpeed
201	–	–	nciMinSpeed
202	–	–	nciRcvHrtBt
203	–	–	nciNmlSpeed
204	–	–	nciNmlFreq
205	–	–	nciRampUpTm
206	–	–	nciRampDownTm
208	–	–	nciDrvSpeedScale

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