

# Parameter List: EMX4e

## 1. Overview

This application note lists soft starter programmable parameters, to simplify management over network communications.

This parameter list is correct for parameter list version 4.x.

For parameter details, refer to the soft starter user manual.



### NOTE

To check the parameter list version, use Menu > Setup Tools > Software Versions.

## 2. Parameter list

	Parameter Number	Parameter Name	Default
1	1A	<i>Command Source</i>	Digital Input
2	1B	<i>Motor Full Load Current</i>	Model dependent
3	1C	<i>Locked Rotor Time</i>	00:10 (mm:ss)
4	1D	<i>Locked Rotor Current</i>	600%
5	1E	<i>Motor Service Factor</i>	105%
6	1F	<i>Reserved</i>	
7	2A	<i>Start Mode</i>	Constant Current
8	2B	<i>Start Ramp Time</i>	00:10 (mm:ss)
9	2C	<i>Initial Current</i>	200%
10	2D	<i>Current Limit</i>	350%
11	2E	<i>Adaptive Start Profile</i>	Constant Acceleration
12	2F	<i>Stop Mode</i>	TVR Soft Stop
13	2G	<i>Stop Time</i>	00:00 (mm:ss)
14	2H	<i>Adaptive Stop Profile</i>	Constant Deceleration
15	2I	<i>Adaptive Control Gain</i>	75%
16	2J	<i>Multi Pump</i>	Single Pump
17	2K	<i>Start Delay</i>	00:00 (mm:ss)
18	5A	<i>Current Imbalance</i>	30%
19	5B	<i>Current Imbalance Delay</i>	00:03 (mm:ss)
20	5C	<i>Undercurrent</i>	20%
21	5D	<i>Undercurrent Delay</i>	00:05 (mm:ss)
22	5E	<i>Overcurrent</i>	400%
23	5F	<i>Overcurrent Delay</i>	00:00 (mm:ss)
24	5G	<i>Excess Start Time</i>	00:20 (mm:ss)
25	5H	<i>Restart Delay</i>	00:10 (mm:ss)
26	5I	<i>Starts per Hour</i>	0
27	5J	<i>Phase Sequence</i>	Any Sequence
28	6A	<i>Auto-Reset Count</i>	0
29	6B	<i>Auto-Reset Delay</i>	00:05 (mm:ss)
30	6C	<i>Current Imbalance</i>	Soft Trip and Log
31	6D	<i>Undercurrent</i>	Soft Trip and Log
32	6E	<i>Overcurrent</i>	Soft Trip and Log
33	6F	<i>Excess Start Time</i>	Soft Trip and Log
34	6G	<i>Input A Trip</i>	Soft Trip and Log
35	6H	<i>Input B Trip</i>	Soft Trip and Log
36	6I	<i>Network Communications</i>	Soft Trip and Log

## PARAMETER LIST

	Parameter Number	Parameter Name	Default
37	6J	<i>Remote Keypad Fault</i>	Soft Trip and Log
38	6K	<i>Frequency</i>	Soft Trip and Log
39	6L	<i>Phase Sequence</i>	Soft Trip and Log
40	6M	<i>Motor Overtemperature</i>	Soft Trip and Log
41	6N	<i>Motor Thermistor Circuit</i>	Soft Trip and Log
42	7A	<i>Input A Function</i>	Input Trip (N/O)
43	7B	<i>Input A Trip</i>	Operating Only
44	7C	<i>Input A Trip Delay</i>	00:00 (mm:ss)
45	7D	<i>Input A Initial Delay</i>	00:00 (mm:ss)
46	7E	<i>Input B Function</i>	Input Trip (N/O)
47	7F	<i>Input B Trip</i>	Operating Only
48	7G	<i>Input B Trip Delay</i>	00:00 (mm:ss)
49	7H	<i>Input B Initial Delay</i>	00:00 (mm:ss)
50	7I	<i>Reset/Enable Logic</i>	Normally Closed (N/C)
51	7J	<i>Input A Name</i>	Input A Trip
52	7K	<i>Input B Name</i>	Input B Trip
53	8A	<i>Relay A Function</i>	Run
54	8B	<i>Relay A On Delay</i>	00:00 (mm:ss)
55	8C	<i>Relay A Off Delay</i>	00:00 (mm:ss)
56	8D	<i>Relay B Function</i>	Run
57	8E	<i>Relay B On Delay</i>	00:00 (mm:ss)
58	8F	<i>Relay B Off Delay</i>	00:00 (mm:ss)
59	8G	<i>Low Current Flag</i>	50%
60	8H	<i>High Current Flag</i>	100%
61	8I	<i>Motor Temperature Flag</i>	80%
62	8J	<i>Main Contactor Time</i>	400 ms
63	9A	<i>Analog Output A</i>	Current (% FLC)
64	9B	<i>Analog A Scale</i>	4-20 mA
65	9C	<i>Analog A Maximum Adjustment</i>	100%
66	9D	<i>Analog A Minimum Adjustment</i>	000%
67	10A	<i>Language</i>	English
68	10B	<i>Temperature Scale</i>	Celsius
69	10C	<i>Graph Timebase</i>	30 seconds
70	10D	<i>Graph Maximum Adjustment</i>	400%
71	10E	<i>Graph Minimum Adjustment</i>	0%
72	10F	<i>Current Calibration</i>	100%
73	10G	<i>Adjustment Lock</i>	Read & Write
74	10H	<i>User Parameter 1</i>	Current
75	10I	<i>User Parameter 2</i>	Mains Frequency
76	10J	<i>User Parameter 3</i>	Motor pf
77	10K	<i>User Parameter 4</i>	Motor Temp (%)
78	10L	<i>User Parameter 5</i>	Hours Run
79	10M	<i>User Parameter 6</i>	Number of Starts
80	12A	<i>Modbus Address</i>	1
81	12B	<i>Modbus Baud Rate</i>	9600
82	12C	<i>Modbus Parity</i>	None
83	12D	<i>Modbus Timeout</i>	Off
84	12E	<i>Devicenet Address</i>	0
85	12F	<i>Devicenet Baud Rate</i>	125kB

	Parameter Number	Parameter Name	Default
86	12G	<i>Profibus Address</i>	1
87	12H	<i>Gateway Address</i>	192
88	12I	<i>Gateway Address 2</i>	168
89	12J	<i>Gateway Address 3</i>	0
90	12K	<i>Gateway Address 4</i>	100
91	12L	<i>IP Address</i>	192
92	12M	<i>IP Address 2</i>	168
93	12N	<i>IP Address 3</i>	0
94	12O	<i>IP Address 4</i>	2
95	12P	<i>Subnet Mask</i>	255
96	12Q	<i>Subnet Mask 2</i>	255
97	12R	<i>Subnet Mask 3</i>	255
98	12S	<i>Subnet Mask 4</i>	0
99	12T	<i>DHCP</i>	Disable
100	12U	<i>Location ID</i>	0
101	20A	<i>Tracking Gain</i>	50%
102	20B	<i>Pedestal Detect</i>	80%
103	20C	<i>Bypass Contactor Delay</i>	100 ms
104	20D	<i>Model Rating</i>	Model dependent
105	20E	<i>Screen Timeout</i>	1 minute
106	20F	<i>Motor Connection</i>	Auto-detect
107	20G	<i>Shunt Trip Mode</i>	Disable
108	30A	<i>Pressure Sensor Type</i>	None
109	30B	<i>Pressure Units</i>	kPa
110	30C	<i>Pressure at 4 mA</i>	0
111	30D	<i>Pressure at 20 mA</i>	0
112	30E	<i>Flow Sensor Type</i>	None
113	30F	<i>Flow Units</i>	litres/second
114	30G	<i>Flow at 4 mA</i>	0
115	30H	<i>Flow at 20 mA</i>	0
116	30I	<i>Units per Minute at Max Flow</i>	0
117	30J	<i>Pulses per Minute at Max Flow</i>	0
118	30K	<i>Units per Pulse</i>	0
119	30L	<i>Depth Sensor Type</i>	None
120	30M	<i>Depth Units</i>	metres
121	30N	<i>Depth at 4 mA</i>	0
122	30O	<i>Depth at 20 mA</i>	0
123	31A	<i>High Flow Trip Level</i>	10
124	31B	<i>Low Flow Trip Level</i>	5
125	31C	<i>Flow Start Delay</i>	00:00:50 (mm:ss.ms)
126	31D	<i>Flow Response Delay</i>	00:00:50 (mm:ss.ms)
127	32A	<i>High Pressure Trip Level</i>	10
128	32B	<i>High Pressure Start Delay</i>	00:00:50 (mm:ss.ms)
129	32C	<i>High Pressure Response Delay</i>	00:00:50 (mm:ss.ms)
130	32D	<i>Low Pressure Trip Level</i>	5
131	32E	<i>Low Pressure Start Delay</i>	00:00:50 (mm:ss.ms)
132	32F	<i>Low Pressure Response Delay</i>	00:00:50 (mm:ss.ms)
133	33A	<i>Pressure Control Mode</i>	Off
134	33B	<i>Start Pressure Level</i>	5

**PARAMETER LIST**

	<b>Parameter Number</b>	<b>Parameter Name</b>	<b>Default</b>
135	33C	<i>Start Response Delay</i>	00:00:50 (mm:ss:ms)
136	33D	<i>Stop Pressure Level</i>	10
137	33E	<i>Stop Response Delay</i>	00:00:50 (mm:ss:ms)
138	34A	<i>Depth Trip Level</i>	5
139	34B	<i>Depth Reset Level</i>	10
140	34C	<i>Depth Start Delay</i>	00:00:50 (mm:ss:ms)
141	34D	<i>Depth Response Delay</i>	00:00:50 (mm:ss:ms)
142	35A	<i>Temperature Sensor Type</i>	None
143	35B	<i>Temperature Trip Level</i>	40
144	36A	<i>Pressure Sensor</i>	Soft Trip and Log
145	36B	<i>Flow Sensor</i>	Soft Trip and Log
146	36C	<i>Depth Sensor</i>	Soft Trip and Log
147	36D	<i>High Pressure</i>	Soft Trip and Log
148	36E	<i>Low Pressure</i>	Soft Trip and Log
149	36F	<i>High Flow</i>	Soft Trip and Log
150	36G	<i>Low Flow</i>	Soft Trip and Log
151	36H	<i>Flow Switch</i>	Soft Trip and Log
152	36I	<i>Well Depth</i>	Soft Trip and Log
153	36J	<i>RTD/PT100 B</i>	Soft Trip and Log