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

PARAMETER LIST

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

	Parameter Number	Parameter Name	Default
86	12G	*Profibus Address*	1
87	12H	*Gateway Address*	192
88	12I	*Gateway Address 2*	168
89	12J	*Gateway Address 3*	0
90	12K	*Gateway Address 4*	100
91	12L	*IP Address*	192
92	12M	*IP Address 2*	168
93	12N	*IP Address 3*	0
94	12O	*IP Address 4*	2
95	12P	*Subnet Mask*	255
96	12Q	*Subnet Mask 2*	255
97	12R	*Subnet Mask 3*	255
98	12S	*Subnet Mask 4*	0
99	12T	*DHCP*	Disable
100	12U	*Location ID*	0
101	20A	*Tracking Gain*	50%
102	20B	*Pedestal Detect*	80%
103	20C	*Bypass Contactor Delay*	150 ms
104	20D	*Model Rating*	Model dependent
105	20E	*Screen Timeout*	1 minute
106	20F	*Motor Connection*	Auto-detect
107	30A	*Pressure Sensor Type*	None
108	30B	*Pressure Units*	kPa
109	30C	*Pressure at 4 mA*	0
110	30D	*Pressure at 20 mA*	0
111	30E	*Flow Sensor Type*	None
112	30F	*Flow Units*	litres/second
113	30G	*Flow at 4 mA*	0
114	30H	*Flow at 20 mA*	0
115	30I	*Units per Minute at Max Flow*	0
116	30J	*Pulses per Minute at Max Flow*	0
117	30K	*Units per Pulse*	0
118	30L	*Depth Sensor Type*	None
119	30M	*Depth Units*	metres
120	30N	*Depth at 4 mA*	0
121	30O	*Depth at 20 mA*	0
122	31A	*High Flow Trip Level*	10
123	31B	*Low Flow Trip Level*	5
124	31C	*Flow Start Delay*	00:00:50 (mm:ss:ms)
125	31D	*Flow Response Delay*	00:00:50 (mm:ss:ms)
126	32A	*High Pressure Trip Level*	10
127	32B	*High Pressure Start Delay*	00:00:50 (mm:ss:ms)
128	32C	*High Pressure Response Delay*	00:00:50 (mm:ss:ms)
129	32D	*Low Pressure Trip Level*	5
130	32E	*Low Pressure Start Delay*	00:00:50 (mm:ss:ms)
131	32F	*Low Pressure Response Delay*	00:00:50 (mm:ss:ms)
132	33A	*Pressure Control Mode*	Off
133	33B	*Start Pressure Level*	5
134	33C	*Start Response Delay*	00:00:50 (mm:ss:ms)

PARAMETER LIST

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