



### 3.1 Parameter List

#### 3.1.1 Parameter list

In the initial setting, only the simple mode parameters are displayed.  
Set Pr. 160 User group read selection as required.

Parameter	Name	Initial Value	Setting Range	Remarks
160	User group read selection	9999	9999	Only the simple mode parameters can be displayed.
			0	Simple mode and extended mode parameters can be displayed.
			1	Only parameters registered in the user group can be displayed.

#### REMARKS

- The parameters marked @ are the simple mode parameters.
- The parameters marked with  in the table allow its setting to be changed during operation even if "0" (initial value) is set in Pr. 77 Parameter write selection.
- Parameters for the option are displayed only when the option unit is installed.
- The instruction codes (hexadecimal) for "read" and "write" on the right of the parameter number are those used to set the parameter via communication. "Extended" indicates the setting of the extended link parameter. (Refer to page 152 for communication)

Function	Parameters	Instruction Code		Name	Setting Range	Minimum Setting Increments	Initial Value	Refer to Page	Customer Setting
		Read	Write						
Basic functions	@ 0	00 80	0	Torque boost	0 to 30%	0.1%	6/4/3/2/ 1.5%	54	
	@ 1	01 81	0	Maximum frequency	0 to 120Hz	0.01Hz	120Hz	62	
	@ 2	02 82	0	Minimum frequency	0 to 120Hz	0.01Hz	0Hz	62	
	@ 3	03 83	0	Base frequency	0 to 400Hz	0.01Hz	60Hz	64	
	@ 4	04 84	0	Multi-speed setting (high speed)	0 to 400Hz	0.01Hz	60Hz	67	
	@ 5	05 85	0	Multi-speed setting (middle speed)	0 to 400Hz	0.01Hz	30Hz	67	
	@ 6	06 86	0	Multi-speed setting (low speed)	0 to 400Hz	0.01Hz	10Hz	67	
	@ 7	07 87	0	Acceleration time	0 to 3600/ 360s	0.1/0.01s	5s/15s	74	
	@ 8	08 88	0	Deceleration time	0 to 3600/ 360s	0.1/0.01s	10s/30s	74	
@ 9	09 89	0	Electronic thermal O/L relay	0 to 500A	0.01A	Rated inverter output current	78		
DC injection brake	10	0A 8A	0	DC injection brake operation frequency	0 to 120Hz, 9999	0.01Hz	3Hz	81	
	11	0B 8B	0	DC injection brake operation time	0 to 10s	0.1s	0.5s	81	
	12	0C 8C	0	DC injection brake operation voltage	0 to 30%	0.1%	4/2%	81	
—	13	0D 8D	0	Starting frequency	0 to 60Hz	0.01Hz	0.5Hz	76	
—	14	0E 8E	0	Load pattern selection	0, 1	1	1	61	
Jog operation	15	0F 8F	0	Jog frequency	0 to 400Hz	0.01Hz	5Hz	69	
	16	10 90	0	Jog acceleration/deceleration time	0 to 3600/360s	0.1/0.01s	0.5s	69	
—	17	11 91	0	MRS input selection	0, 2	1	0	86	



Function	Parameters	Instruction Code		Name	Setting Range	Minimum Setting Increments	Initial Value	Refer to Page	Customer Setting
		Read	Write						
—	<b>18</b>	12 92	0	<b>High speed maximum frequency</b>	120 to 400Hz	0.01Hz	120Hz	62	
—	<b>19</b>	13 93	0	<b>Base frequency voltage</b>	0 to 1000V, 8888, 9999	0.1V	9999	64	
Acceleration/ deceleration times	<b>20</b>	14 94	0	<b>Acceleration/deceleration reference frequency</b>	1 to 400Hz	0.01Hz	60Hz	74	
	<b>21</b>	15 95	0	<b>Acceleration/deceleration time increments</b>	0, 1	1	0	74	
Stall prevention	<b>22</b>	16 96	0	<b>Stall prevention operation level</b>	0 to 150%, 9999	0.1%	120%	57	
	<b>23</b>	17 97	0	<b>Stall prevention operation level compensation factor at double speed</b>	0 to 200%, 9999	0.1%	9999	57	
Multi-speed setting	<b>24 to 27</b>	18 to B 98 to 9B	0	<b>Multi-speed setting 4 speed to 7 speed</b>	0 to 400Hz, 9999	0.01Hz	9999	67	
—	<b>28</b>	1C 9C	0	<b>Multi-speed input compensation selection</b>	0, 1	1	0	71	
—	<b>29</b>	1D 9D	0	<b>Acceleration/deceleration pattern selection</b>	0, 1, 2, 3	1	0	77	
—	<b>30</b>	1E 9E	0	<b>Regenerative function selection</b>	0, 2	1	0	82	
Frequency jump	<b>31</b>	1F 9F	0	<b>Frequency jump 1A</b>	0 to 400Hz, 9999	0.01Hz	9999	63	
	<b>32</b>	20 A0	0	<b>Frequency jump 1B</b>	0 to 400Hz, 9999	0.01Hz	9999	63	
	<b>33</b>	21 A1	0	<b>Frequency jump 2A</b>	0 to 400Hz, 9999	0.01Hz	9999	63	
	<b>34</b>	22 A2	0	<b>Frequency jump 2B</b>	0 to 400Hz, 9999	0.01Hz	9999	63	
	<b>35</b>	23 A3	0	<b>Frequency jump 3A</b>	0 to 400Hz, 9999	0.01Hz	9999	63	
	<b>36</b>	24 A4	0	<b>Frequency jump 3B</b>	0 to 400Hz, 9999	0.01Hz	9999	63	
—	<b>37</b>	25 A5	0	<b>Speed display</b>	0, 1 to 9998	1	0	98	
Frequency detection	<b>41</b>	29 A9	0	<b>Up-to-frequency sensitivity</b>	0 to 100%	0.1%	10%	94	
	<b>42</b>	2A AA	0	<b>Output frequency detection</b>	0 to 400Hz	0.01Hz	6Hz	94	
	<b>43</b>	2B AB	0	<b>Output frequency detection for reverse rotation</b>	0 to 400Hz, 9999	0.01Hz	9999	94	
Second functions	<b>44</b>	2C AC	0	<b>Second acceleration/ deceleration time</b>	0 to 3600/360s	0.1/0.01s	5s	74	
	<b>45</b>	2D AD	0	<b>Second deceleration time</b>	0 to 3600/360s, 9999	0.1/0.01s	9999	74	
	<b>46</b>	2E AE	0	<b>Second torque boost</b>	0 to 30%, 9999	0.1%	9999	54	
	<b>47</b>	2F AF	0	<b>Second V/F (base frequency)</b>	0 to 400Hz, 9999	0.01Hz	9999	64	
	<b>48</b>	30 B0	0	<b>Second stall prevention operation current</b>	0 to 150%	0.1%	120%	57	
	<b>49</b>	31 B1	0	<b>Second stall prevention operation frequency</b>	0 to 400Hz, 9999	0.01Hz	0Hz	57	
	<b>50</b>	32 B2	0	<b>Second output frequency detection</b>	0 to 400Hz	0.01Hz	30Hz	94	
	<b>51</b>	33 B3	0	<b>Second electronic thermal O/L relay</b>	0 to 500A, 9999	0.01A	9999	78	



Function	Parameters	Instruction Code		Name	Setting Range	Minimum Setting Increments	Initial Value	Refer to Page	Customer Setting
		Read	Write						
Monitor functions	52	34	0	DU/PU main display data selection	0, 5, 6, 8, 10 to 14, 17, 20, 23 to 25, 50 to 57, 100	1	0	99	
		B4							
	54	36	0	FM terminal function selection	1 to 3, 5, 6, 8, 10 to 14, 17, 21, 24, 50, 52, 53	1	1	103	
		B6							
55	37	0	Frequency monitoring reference	0 to 400Hz	0.01Hz	60Hz	103		
	B7								
56	38	0	Current monitoring reference	0 to 500A	0.01A	Rated inverter output current	103		
	B8								
Automatic restart functions	57	39	0	Restart coasting time	0, 0.1 to 5s, 9999	0.1s	9999	108	
		B9							
58	3A	0	Restart cushion time	0 to 60s	0.1s	1s	108		
	BA								
—	59	3B BB	0	Remote function selection	0, 1, 2, 3	1	0	72	
—	Ⓢ 60	3C BC	0	Energy saving control selection	0, 4, 9	1	0	117	
—	65	41 C1	0	Retry selection	0 to 5	1	0	113	
—	66	42 C2	0	Stall prevention operation reduction starting frequency	0 to 400Hz	0.01Hz	60Hz	57	
Retry	67	43	0	Number of retries at alarm occurrence	0 to 10, 101 to 110	1	0	113	
		C3							
	68	44 C4	0	Retry waiting time	0 to 10s	0.1s	1s	113	
69	45 C5	0	Retry count display erase	0	1	0	113		
—	71	47 C7	0	Applied motor	0, 1, 2, 20	1	0	80	
—	72	48 C8	0	PWM frequency selection	0 to 15	1	2	123	
—	73	49 C9	0	Analog input selection	0 to 7, 10 to 17	1	1	126	
—	74	4A CA	0	Input filter time constant	0 to 8	1	1	127	
—	75	4B CB	0	Reset selection/disconnected PU detection/PU stop selection	0 to 3, 14 to 17	1	14	133	
—	76	4C CC	0	Alarm code output selection	0, 1, 2	1	0	115	
—	77	4D CD*	0	Parameter write selection	0, 1, 2	1	0	135	
—	78	4E CE	0	Reverse rotation prevention selection	0, 1, 2	1	0	136	
—	Ⓢ 79	4F CF*	0	Operation mode selection	0, 1, 2, 3, 4, 6, 7	1	0	138	
Simple magnetic flux vector control	80	50	0	Motor capacity (simple magnetic flux vector control)	0.4 to 55kW, 9999	0.01kW	9999	55	
		D0							
90	5A	0	Motor constant (R1)	0 to 50Ω, 9999	0.001Ω	9999	55		
	DA								

\* Can be written by only communication from the PU connector.



Function	Parameters	Instruction Code		Name	Setting Range	Minimum Setting Increments	Initial Value	Refer to Page	Customer Setting
		Read	Write						
Adjustable 5 points V/F	100	00	1	V/F1 (first frequency)	0 to 400Hz, 9999	0.01Hz	9999	66	
		80							
	101	01	1	V/F1 (first frequency voltage)	0 to 1000V	0.1V	0V	66	
		81							
	102	02	1	V/F2 (second frequency)	0 to 400Hz, 9999	0.01Hz	9999	66	
		82							
	103	03	1	V/F1 (first frequency)	0 to 1000V	0.1V	0V	66	
		83							
	104	04	1	V/F3 (third frequency)	0 to 400Hz, 9999	0.01Hz	9999	66	
		84							
105	05	1	V/F3 (third frequency voltage)	0 to 1000V	0.1V	0V	66		
	85								
106	06	1	V/F4 (fourth frequency)	0 to 400Hz, 9999	0.01Hz	9999	66		
	86								
107	07	1	V/F4 (fourth frequency voltage)	0 to 1000V	0.1V	0V	66		
	87								
108	08	1	V/F5 (fifth frequency)	0 to 400Hz, 9999	0.01Hz	9999	66		
	88								
109	09	1	V/F5 (fifth frequency voltage)	0 to 1000V	0.1V	0V	66		
	89								
PU connector communication	117	11	1	PU communication station	0 to 31	1	0	157	
		91							
	118	12	1	PU communication speed	48, 96, 192, 384	1	192	157	
		92							
	119	13	1	PU communication stop bit length.	0, 1, 10, 11	1	1	157	
		93							
	120	14	1	PU communication parity check	0, 1, 2	1	2	157	
		94							
121	15	1	Number of PU communication retries	0 to 10, 9999	1	1	157		
	95								
122	16	1	PU communication check time interval	0, 0.1 to 999.8s, 9999	0.1s	9999	157		
	96								
123	17	1	PU communication waiting time setting	0 to 150ms, 9999	1	9999	157		
	97								
124	18	1	PU communication CR/LF presence/absence selection	0, 1, 2	1	1	157		
	98								
—	© 125	19	1	Terminal 2 frequency setting gain frequency	0 to 400Hz	0.01Hz	60Hz	128	
—	© 126	1A	1	Terminal 4 frequency setting gain frequency	0 to 400Hz	0.01Hz	60Hz	128	
PID operation	127	1B	1	PID control automatic switchover frequency	0 to 400Hz, 9999	0.01Hz	9999	180	
		9B							
	128	1C	1	PID action selection	10, 11, 20, 21, 50, 51, 60, 61	1	10	180	
		9C							
	129	1D	1	PID proportional band	0.1 to 1000%, 9999	0.1%	100%	180	
		9D							
	130	1E	1	PID integral time	0.1 to 3600s, 9999	0.1s	1s	180	
		9E							
131	1F	1	PID upper limit	0 to 100%, 9999	0.1%	9999	180		
	9F								
132	20	1	PID lower limit	0 to 100%, 9999	0.1%	9999	180		
	A0								
133	21	1	PID action set point	0 to 100%, 9999	0.01%	9999	180		
	A1								
134	22	1	PID differential time	0.01 to 10.00s, 9999	0.01s	9999	180		
	A2								



Function	Parameters	Instruction Code		Name	Setting Range	Minimum Setting Increments	Initial Value	Refer to Page	Customer Setting
		Read	Write						
		Extended							
Commercial power supply-inverter switch-over	135	23	1	Power-supply switchover sequence output terminal selection	0, 1	1	0	188	
		A3							
	136	24	1	MC switchover interlock time	0 to 100s	0.1s	1s	188	
		A4							
	137	25	1	Waiting time at a start	0 to 100s	0.1s	0.5s	188	
A5									
138	26	1	Commercial power-supply operation switchover selection at an alarm	0, 1	1	0	188		
	A6								
139	27	1	Automatic switchover frequency between inverter and commercial power-supply operation	0 to 60Hz, 9999	0.01Hz	9999	188		
	A7								
Backlash measures	140	28	1	Backlash acceleration stopping frequency	0 to 400Hz	0.01Hz	1Hz	77	
		A8							
	141	29	1	Backlash acceleration stopping time	0 to 360s	0.1s	0.5s	77	
		A9							
142	2A	1	Backlash deceleration stopping frequency	0 to 400Hz	0.01Hz	1Hz	77		
	AA								
143	2B	1	Backlash deceleration stopping time	0 to 360s	0.1s	0.5s	77		
	AB								
—	144	2C AC	1	Speed setting switchover	0, 2, 4, 6, 8, 10, 102, 104, 106, 108, 110	1	4	98	
PU	145	2D AD	1	PU display language selection	0 to 7	1	0	202	
Current detection	148	30	1	Stall prevention level at 0V input.	0 to 150%	0.1%	120%	57	
		B0							
	149	31	1	Stall prevention level at 10V input.	0 to 150%	0.1%	150%	57	
		B1							
	150	32	1	Output current detection level	0 to 150%	0.1%	120%	95	
		B2							
151	33	1	Output current detection signal delay time	0 to 10s	0.1s	0s	95		
	B3								
152	34	1	Zero current detection level	0 to 150%	0.1%	5%	95		
	B4								
153	35	1	Zero current detection time	0 to 1s	0.01s	0.5s	95		
	B5								
—	154	36 B6	1	Voltage reduction selection during stall prevention operation	0, 1	1	1	57	
—	155	37 B7	1	RT signal reflection time selection	0, 10	1	0	87	
—	156	38 B8	1	Stall prevention operation selection	0 to 31, 100, 101	1	0	57	
—	157	39 B9	1	OL signal output timer	0 to 25s, 9999	0.1s	0s	57	
—	158	3A BA	1	AM terminal function selection	1 to 3, 5, 6, 8, 10 to 14, 17, 21, 24, 50, 52, 53	1	1	103	
—	159	3B BB	1	Automatic switchover ON range between commercial power-supply and inverter operation	0 to 10Hz, 9999	0.01Hz	9999	188	
—	©160	00 80	2	User group read selection	0, 1, 9999	1	9999	136	
—	161	01 81	2	Frequency setting/key lock operation selection	0, 1, 10, 11	1	0	202	



Function	Parameters	Instruction Code		Name	Setting Range	Minimum Setting Increments	Initial Value	Refer to Page	Customer Setting
		Read	Write						
Automatic restart functions	162	02	2	Automatic restart after instantaneous power failure selection	0, 1, 10, 11	1	0	108	
		82							
	163	03	2	First cushion time for restart	0 to 20s	0.1s	0s	108	
		83							
164	04	2	First cushion voltage for restart	0 to 100%	0.1%	0%	108		
	84								
165	05	2	Stall prevention operation level for restart	0 to 150%	0.1%	120%	108		
	85								
Current detection	166	06	2	Output current detection signal retention time	0 to 10s, 9999	0.1s	0.1s	95	
		86							
167	07	2	Output current detection operation selection	0, 1	1	0	95		
	87								
—	168	Parameter for manufacturer setting.							
—	169	Do not make setting.							
Cumulative monitor clear	170	0A	2	Cumulative power meter clear	0, 10, 9999	1	9999	99	
		8A							
171	0B	2	Operation hour meter clear	0, 9999	1	9999	99		
	8B								
User group	172	0C	2	User group registered display/batch clear	9999, (0 to 16)	1	0	136	
		8C							
	173	0D	2	User group registration	0 to 999, 9999	1	9999	136	
8D									
174	0E	2	User group clear	0 to 999, 9999	1	9999	136		
	8E								
Input terminal function assignment	178	12	2	STF terminal function selection	0 to 8, 10 to 12, 14, 16, 24, 25, 60, 62, 64 to 67, 9999	1	60	84	
		92							
	179	13	2	STR terminal function selection	0 to 8, 10 to 12, 14, 16, 24, 25, 61, 62, 64 to 67, 9999	1	61	84	
		93							
	180	14	2	RL terminal function selection	0 to 8, 10 to 12, 14, 16, 24, 25, 62, 64 to 67, 9999	1	0	84	
		94							
	181	15	2	RM terminal function selection	0 to 8, 10 to 12, 14, 16, 24, 25, 62, 64 to 67, 9999	1	1	84	
		95							
	182	16	2	RH terminal function selection	0 to 8, 10 to 12, 14, 16, 24, 25, 62, 64 to 67, 9999	1	2	84	
		96							
	183	17	2	RT terminal function selection	0 to 8, 10 to 12, 14, 16, 24, 25, 62 to 67, 9999	1	3	84	
		97							
184	18	2	AU terminal function selection	0 to 8, 10 to 12, 14, 16, 24, 25, 62 to 67, 9999	1	4	84		
	98								
185	19	2	JOG terminal function selection	0 to 8, 10 to 12, 14, 16, 24, 25, 62, 64 to 67, 9999	1	5	84		
	99								
186	1A	2	CS terminal function selection	0 to 8, 10 to 12, 14, 16, 24, 25, 62, 64 to 67, 9999	1	6	84		
	9A								
187	1B	2	MRS terminal function selection	0 to 8, 10 to 12, 14, 16, 24, 25, 62, 64 to 67, 9999	1	24	84		
	9B								
188	1C	2	STOP terminal function selection	0 to 8, 10 to 12, 14, 16, 24, 25, 62, 64 to 67, 9999	1	25	84		
	9C								
189	1D	2	RES terminal function selection	0 to 8, 10 to 12, 14, 16, 24, 25, 62, 64 to 67, 9999	1	62	84		
	9D								



Function	Parameters	Instruction Code		Name	Setting Range	Minimum Setting Increments	Initial Value	Refer to Page	Customer Setting											
		Read	Write							Extended										
Output terminal function assignment	190	1E	2	RUN terminal function selection	0 to 5, 8, 10 to 19, 25, 26, 45 to 47, 64, 70, 90 to 96, 98, 99, 100 to 105, 108, 110 to 116, 125, 126, 145 to 147, 164, 170, 190 to 196, 198, 199, 9999	1	0	90												
		9E																		
	191	1F	2							SU terminal function selection	0 to 5, 8, 10 to 19, 25, 26, 45 to 47, 64, 70, 90, 91, 94 to 96, 98, 99, 100 to 105, 108, 110 to 116, 125, 126, 145 to 147, 164, 170, 191, 194 to 196, 198, 199, 9999	1	1	90						
		9F																		
	192	20	2							IPF terminal function selection						0 to 5, 8, 10 to 19, 25, 26, 45 to 47, 64, 70, 90, 91, 94 to 96, 98, 99, 100 to 105, 108, 110 to 116, 125, 126, 145 to 147, 164, 170, 191, 194 to 196, 198, 199, 9999	1	2	90	
		A0																		
	193	21	2							OL terminal function selection										
A1																				
194	22	2	FU terminal function selection	0 to 5, 8, 10 to 19, 25, 26, 45 to 47, 64, 70, 90, 91, 94 to 96, 98, 99, 100 to 105, 108, 110 to 116, 125, 126, 145 to 147, 164, 170, 191, 194 to 196, 198, 199, 9999	1	4	90													
	A2																			
195	23	2	ABC1 terminal function selection						0 to 5, 8, 10 to 19, 25, 26, 45 to 47, 64, 70, 90, 91, 94 to 96, 98, 99, 100 to 105, 108, 110 to 116, 125, 126, 145 to 147, 164, 170, 191, 194 to 196, 198, 199, 9999	1	99	90								
	A3																			
196	24	2	ABC2 terminal function selection											0 to 5, 8, 10 to 19, 25, 26, 45 to 47, 64, 70, 90, 91, 94 to 96, 98, 99, 100 to 105, 108, 110 to 116, 125, 126, 145 to 147, 164, 170, 191, 194 to 196, 198, 199, 9999	1	9999	90			
	A4																			
Multi-speed setting	232 to 239	28 to 2F, A8 to AF	2																Multi-speed setting (speeds 8 to 15)	0 to 400Hz, 9999
—	240	30 to B0	2	Soft-PWM operation selection	0, 1	1	1	123												
—	241	31 to B1	2	Analog input display unit switchover	0, 1	1	0	128												
—	242	32 to B2	2	Terminal 1 added compensation amount (terminal 2)	0 to 100%	0.1%	100%	126												
—	243	33 to B3	2	Terminal 1 added compensation amount (terminal 4)	0 to 100%	0.1%	75%	126												
—	244	34 to B4	2	Cooling fan operation selection	0, 1	1	1	195												
Slip compensation	245	35 to B5	2	Rated slip	0 to 50%, 9999	0.01%	9999	56												
		36 to B6	2	Slip compensation time constant	0.01 to 10s	0.01s	0.5s	56												
	247	37 to B7	2	Constant-output region slip compensation selection	0, 9999	1	9999	56												
—	250	3A to BA	2	Stop selection	0 to 100s, 1000 to 1100s, 8888, 9999	0.1s	9999	83												
—	251	3B to BB	2	Output phase failure protection selection	0, 1	1	1	116												
Frequency compensation function	252	3C to BC	2	Override bias	0 to 200%	0.1%	50%	126												
		3D to BD	2	Override gain	0 to 200%	0.1%	150%	126												



Function	Parameters	Instruction Code		Name	Setting Range	Minimum Setting Increments	Initial Value	Refer to Page	Customer Setting
		Read	Write						
Life check	255	3F	2	Life alarm status display	(0 to 15)	1	0	196	
		BF							
	256	40	2	Inrush current suppression circuit life display	(0 to 100%)	1%	100%	196	
		C0							
	257	41	2	Control circuit capacitor life display	(0 to 100%)	1%	100%	196	
C1									
258	42	2	Main circuit capacitor life display	(0 to 100%)	1%	100%	196		
	C2								
259	43	2	Main circuit capacitor life measuring	0, 1	1	0	196		
	C3								
—	260	44	2	PWM frequency automatic switchover	0, 1	1	1	123	
		C4							
Power failure stop	261	45	2	Power failure stop selection	0, 1, 2	1	0	111	
		C5							
	262	46	2	Subtracted frequency at deceleration start	0 to 20Hz	0.01Hz	3Hz	111	
		C6							
	263	47	2	Subtraction starting frequency	0 to 120Hz, 9999	0.01Hz	60Hz	111	
		C7							
264	48	2	Power-failure deceleration time 1	0 to 3600/ 360s	0.1/0.01s	5s	111		
	C8								
265	49	2	Power-failure deceleration time 2	0 to 3600/ 360s, 9999	0.1/0.01s	9999	111		
	C9								
266	4A	2	Power failure deceleration time switchover frequency	0 to 400Hz	0.01Hz	60Hz	111		
	CA								
—	267	4B	2	Terminal 4 input selection	0, 1, 2	1	0	124	
		CB							
—	268	4C	2	Monitor decimal digits selection	0, 1, 9999	1	9999	99	
		CC							
—	269	Parameter for manufacturer setting. Do not make setting.							
Digital input	300	00	3	BCD input bias	Parameter for digital input option (FR-A7AX)				
		80							
	301	01	3	BCD input gain					
		81							
	302	02	3	BIN input bias					
		82							
303	03	3	BIN input gain						
	83								
304	04	3	Digital input and analog input compensation enable/disable selection						
	84								
305	05	3	Read timing operation selection						
	85								
Analog output	306	06	3	Analog output signal selection	Extension analog output/digital output option Parameter for (FR-A7AY)				
		86							
	307	07	3	Setting for zero analog output					
		87							
	308	08	3	Setting for maximum analog output					
		88							
	309	09	3	Analog output signal voltage/current switchover					
89									
310	0A	3	Analog meter voltage output selection						
	8A								
311	0B	3	Setting for zero analog meter voltage output						
	8B								
312	0C	3	Setting for maximum analog meter voltage output						
	8C								



Function	Parameters	Instruction Code		Name	Setting Range	Minimum Setting Increments	Initial Value	Refer to Page	Customer Setting	
		Read	Write							Extended
Digital output	313	0D	3	DO0 output selection	Extension analog output/digital output option Parameter for (FR-A7AY)					
		8D								
	314	0E	3	DO1 output selection						
		8E								
	315	0F	3	DO2 output selection						
		8F								
	316	10	3	DO3 output selection						
90										
317	11	3	DO4 output selection							
	91									
318	12	3	DO5 output selection							
	92									
319	13	3	DO6 output selection							
	93									
Relay output	320	14	3	RA1 output selection	Parameter for relay output option (FR-A7AR)					
		94								
	321	15	3	RA2 output selection						
95										
322	16	3	RA3 output selection							
	96									
Analog output	323	17	3	AM0 0V adjustment	Extension analog output/digital output option Parameter for (FR-A7AY)					
		97								
324	18	3	AM1 0mA adjustment							
	98									
—	329	1D	3	Digital input unit selection	Parameter for digital input option (FR-A7AX)					
		9D								
RS-485 communication	331	1F	3	RS-485 communication station	0 to 31(0 to 247)	1	0	157		
		9F								
	332	20	3	RS-485 communication speed	3, 6, 12, 24, 48, 96, 192, 384	1	96	157		
		A0								
	333	21	3	RS-485 communication stop bit length	0, 1, 10, 11	1	1	157		
		A1								
	334	22	3	RS-485 communication parity check selection	0, 1, 2	1	2	157		
		A2								
	335	23	3	RS-485 communication number of retries	0 to 10, 9999	1	1	157		
		A3								
	336	24	3	RS-485 communication check time interval	0 to 999.8s, 9999	0.1s	0s	157		
		A4								
	337	25	3	RS-485 communication waiting time setting	0 to 150ms, 9999	1	9999	157		
		A5								
338	26	3	Communication operation command source	0, 1	1	0	147			
	A6									
339	27	3	Communication speed command source	0, 1, 2	1	0	147			
	A7									
340	28	3	Communication startup mode selection	0, 1, 2, 10, 12	1	0	146			
	A8									
341	29	3	RS-485 communication CR/LF selection	0, 1, 2	1	1	157			
	A9									
342	2A	3	Communication EEPROM write selection	0, 1	1	0	158			
	AA									
343	2B	3	Communication error count	—	1	0	169			
	AB									
CC-LINK	349	31	3	Communication reset selection	Parameter for CC-Link communication option (FR-A7NC)					
										B1



Function	Parameters	Instruction Code		Name	Setting Range	Minimum Setting Increments	Initial Value	Refer to Page	Customer Setting
		Read	Write						
LONWORKS	387	57	3	initial communication delay time	Parameter for LONWORKS communication option (FR-A7NL)				
		D7							
	388	58	3	Send time interval at hart beat					
		D8							
	389	59	3	minimum sending time at hart beat					
		D9							
390	5A	3	% setting reference frequency						
	DA								
391	5B	3	Receive time interval at hart beat						
	DB								
392	5C	3	Event driven detection width						
	DC								
Remote output	495	5F	4	Remote output selection	0, 1	1	0	97	
		DF							
	496	60	4	Remote output data 1					
497	E0	4	Remote output data 2						
	E1								
Communication error	500	00	5	Communication error execution waiting time	Parameter for communication option				
		80							
	501	01	5	Communication error occurrence count display					
81									
502	02	5	Stop mode selection at communication error						
	82								
Maintenance	503	03	5	Maintenance timer	0 (1 to 9998)	1	0	198	
		83							
504	04	5	Maintenance timer alarm output set time						
	84								
CC-LINK	542	2A	5	Communication station number (CC-Link)	Parameter for CC-Link communication option (FR-A7NC)				
		AA							
	543	2B	5	Baud rate (CC-Link)					
AB									
544	2C	5	CC-Link extended setting						
Communication	549	31	5	Protocol selection	0, 1	1	0	169	
		B1							
	550	32	5	NET mode operation command source selection					
B2									
551	33	5	PU mode operation command source selection						
	B3								
Current average monitor	555	37	5	Current average time	0.1 to 1.0s	0.1s	1s	199	
		B7							
	556	38	5	Data output mask time					
B8									
557	39	5	Current average value monitor signal output reference current						
	B9								
—	563	3F	5	Energization time carrying-over times	(0 to 65535)	1	0	99	
—		BF							
—	564	40	5	Operating time carrying-over times	(0 to 65535)	1	0	99	
—		C0							
—	571	47	5	Holding time at a start	0.0 to 10.0s, 9999	0.1s	9999	76	
—		C7							
PID control	575	4B	5	Output interruption detection time	0 to 3600s, 9999	0.1s	1s	180	
		CB							
	576	4C	5	Output interruption detection level					
CC									
577	4D	5	Output interruption release level						
	CD								
—	611	0B	6	Acceleration time at a restart	0 to 3600s, 9999	0.1s	5s	108	
—		8B							



Function	Parameters	Instruction Code		Name	Setting Range	Minimum Setting Increments	Initial Value	Refer to Page	Customer Setting
		Read	Write						
—	<b>867</b>	43 C3	8	<b>AM output filter</b>	0 to 5s	0.01s	0.01s	103	
—	<b>872</b>	48 C8	8	<b>Input phase failure protection selection</b>	0, 1	1	0	116	
Regeneration avoidance function	<b>882</b>	52 D2	8	<b>Regeneration avoidance operation selection</b>	0, 1	1	0	193	
	<b>883</b>	53 D3	8	<b>Regeneration avoidance operation level</b>	300 to 800V	0.1V	760VDC	193	
	<b>884</b>	54 D4	8	<b>Regeneration avoidance at deceleration detection sensitivity</b>	0 to 5	1	0	193	
	<b>885</b>	55 D5	8	<b>Regeneration avoidance compensation frequency limit value</b>	0 to 10Hz, 9999	0.01Hz	6Hz	193	
	<b>886</b>	56 D6	8	<b>Regeneration avoidance voltage gain</b>	0 to 200%	0.1%	100%	193	
	Free parameter	<b>888</b>	58 D8	8	<b>Free parameter 1</b>	0 to 9999	1	9999	201
<b>889</b>		59 D9	8	<b>Free parameter 2</b>	0 to 9999	1	9999	201	
Energy saving monitor	<b>891</b>	5B DB	8	<b>Cumulative power monitor digit shifted times</b>	0 to 4, 9999	1	9999	118	
	<b>892</b>	5C DC	8	<b>Load factor</b>	30 to 150%	0.1%	100%	118	
	<b>893</b>	5D DD	8	<b>Energy saving monitor reference (motor capacity)</b>	0.1 to 55kW	0.01kW	Inverter rated capacity	118	
	<b>894</b>	5E DE	8	<b>Control selection during commercial power-supply operation</b>	0, 1, 2, 3	1	0	118	
	<b>895</b>	5F DF	8	<b>Power saving rate reference value</b>	0, 1, 9999	1	9999	118	
	<b>896</b>	60 E0	8	<b>Power unit cost</b>	0 to 500, 9999	0.01	9999	118	
	<b>897</b>	61 E1	8	<b>Power saving monitor average time</b>	0, 1 to 1000h, 9999	1	9999	118	
	<b>898</b>	62 E2	8	<b>Power saving cumulative monitor clear</b>	0, 1, 10, 9999	1	9999	118	
	<b>899</b>	63 E3	8	<b>Operation time rate (estimated value)</b>	0 to 100%, 9999	0.1%	9999	118	



Function	Parameters	Instruction Code		Name	Setting Range	Minimum Setting Increments	Initial Value	Refer to Page	Customer Setting
		Read	Write						
Calibration parameters	<b>C0 (900)</b>	5C DC	1	FM terminal calibration	—	—	—	105	
	<b>C1 (901)</b>	5D DD	1	AM terminal calibration	—	—	—	105	
	<b>C2 (902)</b>	5E DE	1	Terminal 2 frequency setting bias frequency	0 to 400Hz	0.01Hz	0Hz	128	
	<b>C3 (902)</b>	5E DE	1	Terminal 2 frequency setting bias	0 to 300%	0.1%	0%	128	
	<b>125 (903)</b>	5F DF	1	Terminal 2 frequency setting gain frequency	0 to 400Hz	0.01Hz	60Hz	128	
	<b>C4 (903)</b>	5F DF	1	Terminal 2 frequency setting gain	0 to 300%	0.1%	100%	128	
	<b>C5 (904)</b>	60 E0	1	Terminal 4 frequency setting bias frequency	0 to 400Hz	0.01Hz	0Hz	128	
	<b>C6 (904)</b>	60 E0	1	Terminal 4 frequency setting bias	0 to 300%	0.1%	20%	128	
	<b>126 (905)</b>	61 E1	1	Terminal 4 frequency setting gain frequency	0 to 400Hz	0.01Hz	60Hz	128	
	<b>C7 (905)</b>	61 E1	1	Terminal 4 frequency setting gain	0 to 300%	0.1%	100%	128	
—	<b>989</b>	59 D9	9	Parameter copy alarm release	10	1	10	—	
PU	<b>990</b>	5A DA	9	PU buzzer control	0, 1	1	1	204	
	<b>© 991</b>	5B DB	9	PU contrast adjustment	0 to 63	1	58	204	
Clear parameter	<b>Pr.CL</b>	—	—	Parameter clear	0, 1	1	0	205	
	<b>ALLC</b>	—	—	All parameter clear	0, 1	1	0	206	
	<b>Er.CL</b>	—	—	Alarm history clear	0, 1	1	0	209	
	<b>PCPY</b>	—	—	Parameter copy	0, 1, 2, 3	1	0	207	