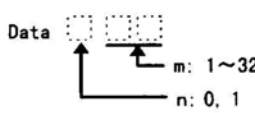


## F OPTION-RELATED CONSTANTS

Constant No.	Name	Description	Remarks
F1-01	PG constant	Sets the number of pulses of PG (pulse generator) to be used. The set value is the number of pulses per motor revolution (pulses/rev).	
F1-02	Operation selection at PG open circuit	Sets the stopping method at PG disconnected detection. 0 : Deceleration to stop (deceleration time : C1-02) 1 : Coasting to stop 2 : Emergency stop (deceleration time : C1-09) 3 : Continuous operation (displayed only) (Setting disabled when A1-01=3 : flux vector control.)	
F1-03	Operation selection at overspeed	Sets the stopping method at Overspeed detected. 0 : Deceleration to stop (deceleration time : C1-02) 1 : Coasting to stop 2 : Emergency stop (deceleration time : C1-09) 3 : Continuous operation (displayed only) (Setting disabled when A1-01=3 : flux vector control.)	
F1-04	Operation selection at deviation	Sets the stopping method at excessive speed deviation detected. 0 : Deceleration to stop (deceleration time : C1-02) 1 : Coasting to stop 2 : Emergency stop (deceleration time : C1-09) 3 : Continuous operation (displayed only)	
F1-05	PG rotation	Sets the relation between the motor rotating direction and PG polarity. 0 : Phase A advanced in motor FWD rotation 1 : Phase A advanced in motor REV rotation When PG-A or-D option is connected, this constant is disabled.	• Motor FWD rotation is in the counterclockwise (CCW) direction viewed from the load side.
F1-06	PG division rate (Effective only when PG-B2 card is mounted)	Sets the division ratio when pulse signals from PG are monitored. [Setting of division ratio] $\text{Division ratio} = \frac{n+1}{m} \quad \left(\text{Setting range } \frac{1}{1} \sim \frac{1}{32}\right)$ 	• Division is only for pulse monitoring and has nothing to do with control.
F1-07	Integral value during accel/decel enable/disable	Sets whether speed control section (ASR) integral operation is performed during accel/decel. 0 : Enabled 1 : Disabled	

Constant No.	Name	Description	Remarks
F1-08	Overspeed detection level	Sets the motor overspeed detection level in the ratio (%) for E1-04 (max. frequency).	<ul style="list-style-type: none"> <li>Stopping method at overspeed detection depends on the setting of F1-03.</li> </ul>
F1-09	Overspeed detection delay time	Sets the time from when overspeed is detected to when it is regarded as a fault. A fault signal is output to stop operation after the absolute value of motor speed exceeds the set value of F1-08 and the time set to F1-09 elapses. 	
F1-10	Excessive speed deviation detection level	Sets the excessive speed deviation detection level in the ratio (%) for E1-04 (max. frequency).	<ul style="list-style-type: none"> <li>Stopping method at excessive speed deviation detection depends on the setting of F1-04</li> <li>This is not detected during accel/decel or torque control.</li> </ul>
F1-11	Detection delay time	Sets the time from when excessive speed deviation is detected to when it is regarded as a fault. A fault signal is output to stop operation after deviation between speed reference and motor speed exceeds the set value of F1-10 and the time set to F1-11 elapses. 	
F1-12	Number of PG gear teeth 1	Sets the number of gear teeth when there are gears between the motor and the PG. When the number of gear teeth is set, the motor r/min is calculated in the inverter as shown below. $\text{Motor revolutions [r/min]} = \frac{\text{No. of PG output pulses} \times 60}{\text{PG constant (F1-01)}} \times \frac{\text{No. of gear teeth 2 (F1-13)}}{\text{No. of gear teeth 1 (F1-12)}}$	<ul style="list-style-type: none"> <li>This function is disabled when F1-12=0 or F1-13=0.</li> </ul>
F1-13	Number of PG gear teeth 2		

Constant No.	Name	Description	Remarks																		
F2-01	Bi-polar or uni-polar input selection	<p>Selects CH1 to 3 input functions when AI-14B (optional) is connected.</p> <table border="1"> <thead> <tr> <th>Set Value</th> <th>Function</th> <th>CH1 (TC1-TC4)</th> <th>CH2 (TC2-TC4)</th> <th>CH3 (TC3-TC4)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>3CH Individual Input</td> <td>Substitute for terminals ⑬-⑰</td> <td>Substitute for terminals ⑭-⑰</td> <td>Substitute for terminals ⑯-⑰</td> </tr> <tr> <td>1</td> <td>3CH Addition Input</td> <td colspan="3">Sum of CH1 to 3 input values is regarded as a frequency reference value.</td> </tr> </tbody> </table> <p>Sets B1-01 to 01 (frequency reference from control circuit terminal) when 3CH individual input is used.</p>	Set Value	Function	CH1 (TC1-TC4)	CH2 (TC2-TC4)	CH3 (TC3-TC4)	0	3CH Individual Input	Substitute for terminals ⑬-⑰	Substitute for terminals ⑭-⑰	Substitute for terminals ⑯-⑰	1	3CH Addition Input	Sum of CH1 to 3 input values is regarded as a frequency reference value.			The function of multi-function input (option/inverter reference select) (set value : 02) is disabled.			
Set Value	Function	CH1 (TC1-TC4)	CH2 (TC2-TC4)	CH3 (TC3-TC4)																	
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1	3CH Addition Input	Sum of CH1 to 3 input values is regarded as a frequency reference value.																			
F3-01	Digital input option	<p>Selects the setting mode of frequency reference input from DI-08 (optional) or DI-16H (optional).</p> <table border="1"> <thead> <tr> <th>Set Value</th> <th>Frequency Reference Setting Mode</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>BCD 1% unit</td> </tr> <tr> <td>1</td> <td>BCD 0.1% unit</td> </tr> <tr> <td>2</td> <td>BCD 0.01% unit</td> </tr> <tr> <td>3</td> <td>BCD 1Hz unit</td> </tr> <tr> <td>4</td> <td>BCD 0.1Hz unit</td> </tr> <tr> <td>5</td> <td>BCD 0.01Hz unit</td> </tr> <tr> <td>6</td> <td>Binary DI-08 : 255/100% DI-16H, 12-bit selection : 4096/100% DI-16H, 16-bit selection : 30000/100%</td> </tr> <tr> <td>7</td> <td>Binary-Set value is displayed in decimal rotation.</td> </tr> </tbody> </table>	Set Value	Frequency Reference Setting Mode	0	BCD 1% unit	1	BCD 0.1% unit	2	BCD 0.01% unit	3	BCD 1Hz unit	4	BCD 0.1Hz unit	5	BCD 0.01Hz unit	6	Binary DI-08 : 255/100% DI-16H, 12-bit selection : 4096/100% DI-16H, 16-bit selection : 30000/100%	7	Binary-Set value is displayed in decimal rotation.	
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F4-01 F4-02 F4-03 F4-04	A0-08, A0-12 Channel 1 monitor selection Channel 1 gain Channel 2 monitor selection Channel 2 gain	<p>Selects items to be output to A0-08 (optional) or A0-12 (optional), and sets output gain.</p> <p>For output items, set the monitor No. (U1-XX) to be output.</p> <p>To obtain the output level, multiply the monitor item output level by F4-02 or F4-04 set value.</p>																			
F5-01 F5-02	D0-02C Channel 1 output selection Channel 2 output selection	<p>Sets multi-function output items to be output to D0-02C (optional).</p> <p>For the selecting method of output items, refer to H2-01 to 03.</p>																			

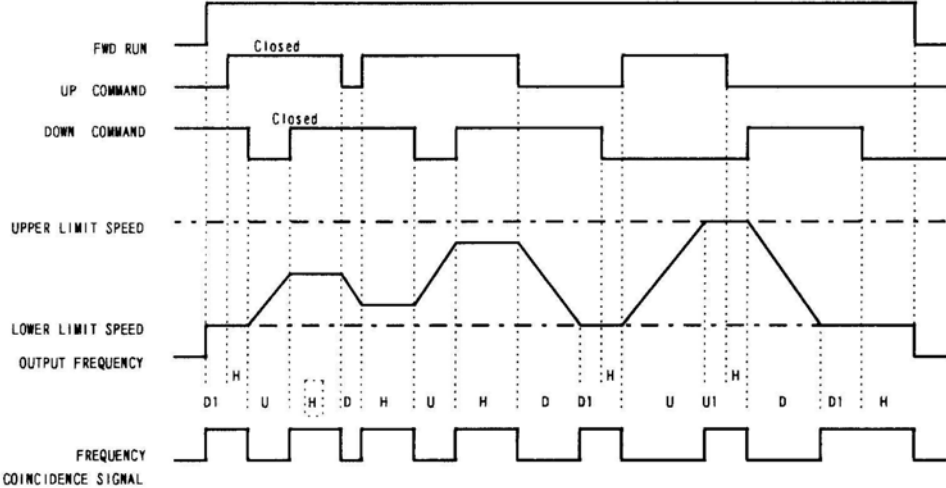
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F6-01	D0-08 Output mode selection	<p>The following table outlines items to be output from D0-08 (optional) according to F6-01 setting.</p> <table border="1"> <thead> <tr> <th>Set Value</th> <th>Output Contents</th> </tr> </thead> <tbody> <tr> <td rowspan="8">0</td> <td> <table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Output Contents</th> </tr> </thead> <tbody> <tr> <td>TD5-TD11</td> <td>Overcurrent (SC, OC, GF)</td> </tr> <tr> <td>TD6-TD11</td> <td>Overvoltage (OV)</td> </tr> <tr> <td>TD7-TD11</td> <td>Inverter overload (OL2)</td> </tr> <tr> <td>TD8-TD11</td> <td>Fuse blown (FU)</td> </tr> <tr> <td>TD9-TD11</td> <td>Not used</td> </tr> <tr> <td>TD10-TD11</td> <td>Inverter overheat (OH)</td> </tr> <tr> <td>TD1-TD2</td> <td>During zero-speed detection</td> </tr> <tr> <td>TD3-TD4</td> <td>During speed agree</td> </tr> </tbody> </table> </td> </tr> <tr> <td rowspan="10">1</td> <td> <table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Output Contents</th> </tr> </thead> <tbody> <tr> <td>TD5-TD11</td> <td rowspan="4">Sign output (See the table below)</td> </tr> <tr> <td>TD6-TD11</td> </tr> <tr> <td>TD7-TD11</td> </tr> <tr> <td>TD8-TD11</td> </tr> <tr> <td>TD9-TD11</td> <td>During zero-speed detection</td> </tr> <tr> <td>TD10-TD11</td> <td>During speed agree</td> </tr> <tr> <td>TD1-TD2</td> <td>During run</td> </tr> <tr> <td>TD3-TD4</td> <td>Minor fault</td> </tr> </tbody> </table>   <table border="1"> <thead> <tr> <th>bit 3210</th> <th>Output Contents</th> <th>bit 3210</th> <th>Output Contents</th> </tr> </thead> <tbody> <tr> <td>0000</td> <td>No fault</td> <td>1000</td> <td>External fault</td> </tr> <tr> <td>0001</td> <td>Overcurrent</td> <td>1001</td> <td>Controller fault</td> </tr> <tr> <td>0010</td> <td>Overvoltage</td> <td>1010</td> <td>Motor overload</td> </tr> <tr> <td>0011</td> <td>Inverter overload</td> <td>1011</td> <td>Not used</td> </tr> <tr> <td>0100</td> <td>Inverter overheat</td> <td>1100</td> <td>Power loss</td> </tr> <tr> <td>0101</td> <td>Not used</td> <td>1101</td> <td>Not used</td> </tr> <tr> <td>0110</td> <td>Fuse blown</td> <td>1110</td> <td>Not used</td> </tr> <tr> <td>0111</td> <td>Not used</td> <td>1111</td> <td>Not used</td> </tr> </tbody> </table> </td> </tr> </tbody> </table>	Set Value	Output Contents	0	<table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Output Contents</th> </tr> </thead> <tbody> <tr> <td>TD5-TD11</td> <td>Overcurrent (SC, OC, GF)</td> </tr> <tr> <td>TD6-TD11</td> <td>Overvoltage (OV)</td> </tr> <tr> <td>TD7-TD11</td> <td>Inverter overload (OL2)</td> </tr> <tr> <td>TD8-TD11</td> <td>Fuse blown (FU)</td> </tr> <tr> <td>TD9-TD11</td> <td>Not used</td> </tr> <tr> <td>TD10-TD11</td> <td>Inverter overheat (OH)</td> </tr> <tr> <td>TD1-TD2</td> <td>During zero-speed detection</td> </tr> <tr> <td>TD3-TD4</td> <td>During speed agree</td> </tr> </tbody> </table>	Terminal No.	Output Contents	TD5-TD11	Overcurrent (SC, OC, GF)	TD6-TD11	Overvoltage (OV)	TD7-TD11	Inverter overload (OL2)	TD8-TD11	Fuse blown (FU)	TD9-TD11	Not used	TD10-TD11	Inverter overheat (OH)	TD1-TD2	During zero-speed detection	TD3-TD4	During speed agree	1	<table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Output Contents</th> </tr> </thead> <tbody> <tr> <td>TD5-TD11</td> <td rowspan="4">Sign output (See the table below)</td> </tr> <tr> <td>TD6-TD11</td> </tr> <tr> <td>TD7-TD11</td> </tr> <tr> <td>TD8-TD11</td> </tr> <tr> <td>TD9-TD11</td> <td>During zero-speed detection</td> </tr> <tr> <td>TD10-TD11</td> <td>During speed agree</td> </tr> <tr> <td>TD1-TD2</td> <td>During run</td> </tr> <tr> <td>TD3-TD4</td> <td>Minor fault</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>bit 3210</th> <th>Output Contents</th> <th>bit 3210</th> <th>Output Contents</th> </tr> </thead> <tbody> <tr> <td>0000</td> <td>No fault</td> <td>1000</td> <td>External fault</td> </tr> <tr> <td>0001</td> <td>Overcurrent</td> <td>1001</td> <td>Controller fault</td> </tr> <tr> <td>0010</td> <td>Overvoltage</td> <td>1010</td> <td>Motor overload</td> </tr> <tr> <td>0011</td> <td>Inverter overload</td> <td>1011</td> <td>Not used</td> </tr> <tr> <td>0100</td> <td>Inverter overheat</td> <td>1100</td> <td>Power loss</td> </tr> <tr> <td>0101</td> <td>Not used</td> <td>1101</td> <td>Not used</td> </tr> <tr> <td>0110</td> <td>Fuse blown</td> <td>1110</td> <td>Not used</td> </tr> <tr> <td>0111</td> <td>Not used</td> <td>1111</td> <td>Not used</td> </tr> </tbody> </table>	Terminal No.	Output Contents	TD5-TD11	Sign output (See the table below)	TD6-TD11	TD7-TD11	TD8-TD11	TD9-TD11	During zero-speed detection	TD10-TD11	During speed agree	TD1-TD2	During run	TD3-TD4	Minor fault	bit 3210	Output Contents	bit 3210	Output Contents	0000	No fault	1000	External fault	0001	Overcurrent	1001	Controller fault	0010	Overvoltage	1010	Motor overload	0011	Inverter overload	1011	Not used	0100	Inverter overheat	1100	Power loss	0101	Not used	1101	Not used	0110	Fuse blown	1110	Not used	0111	Not used	1111	Not used	
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F7-01	P0-3F Frequency multiple selection	<p>The following table shows the number of pulses to be output from P0-3F (optional) according to the setting of F7-01.</p> <table border="1"> <thead> <tr> <th>F7-01</th> <th>Number of Output Pulses</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Inverter output frequency × 1</td> </tr> <tr> <td>1</td> <td>Inverter output frequency × 6</td> </tr> <tr> <td>2</td> <td>Inverter output frequency × 10</td> </tr> <tr> <td>3</td> <td>Inverter output frequency × 12</td> </tr> <tr> <td>4</td> <td>Inverter output frequency × 36</td> </tr> </tbody> </table>	F7-01	Number of Output Pulses	0	Inverter output frequency × 1	1	Inverter output frequency × 6	2	Inverter output frequency × 10	3	Inverter output frequency × 12	4	Inverter output frequency × 36																																																																
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## H CONTROL CIRCUIT TERMINAL-RELATED CONSTANTS

Constant No.	Name	Description																																																																																																																																																																																																																																																																																															
	Multi-function input terminal function selection	Selects the function of a signal input form control circuit terminals 3 to 8.																																																																																																																																																																																																																																																																																															
H1-01	Multi-function input (terminal 3)	<table border="1"> <thead> <tr> <th>Set Value</th> <th>Function</th> <th>V/f</th> <th>V/f with PG</th> <th>Open Loop Vector</th> <th>Flux Vector</th> <th>Reference Page</th> </tr> </thead> <tbody> <tr><td>00</td><td>3-wire sequence FWD/REV run selection</td><td>○</td><td>○</td><td>○</td><td>○</td><td>56</td></tr> <tr><td>01</td><td>Local/remote selection</td><td>○</td><td>○</td><td>○</td><td>○</td><td>56</td></tr> <tr><td>02</td><td>Option/inverter selection</td><td>○</td><td>○</td><td>○</td><td>○</td><td>56</td></tr> <tr><td>03</td><td>Multi-step speed reference 1</td><td>○</td><td>○</td><td>○</td><td>○</td><td>45</td></tr> <tr><td>04</td><td>Multi-step speed reference 2</td><td>○</td><td>○</td><td>○</td><td>○</td><td>45</td></tr> <tr><td>05</td><td>Multi-step speed reference 3</td><td>○</td><td>○</td><td>○</td><td>○</td><td>45</td></tr> <tr><td>06</td><td>Jog frequency reference</td><td>○</td><td>○</td><td>○</td><td>○</td><td>45</td></tr> 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prediction	○	○	○	○	57	0C	Multi-function analog input enable/disable	○	○	○	○	57	0D	Speed control disabled	×	○	×	×	57	0E	Speed control integral reset	×	○	×	○	57	0F	Not used	—	—	—	—	—	10	UP command	○	○	○	○	58	11	DOWN command	○	○	○	○	58	12	FJOG command (FWD jog run)	○	○	○	○	59	13	RJOG command (REV jog run)	○	○	○	○	59	14	Fault reset	○	○	○	○	—	15	Emergency stop	○	○	○	○	39	16	Not used	—	—	—	—	—	17	Not used	—	—	—	—	—	18	ON-delay, OFF-delay timer input	○	○	○	○	35	19	PID control cancel	○	○	○	○	35	1A	Accel/decel time selection 2	○	○	○	○	39	1B	Constant write-in prohibition	○	○	○	○	59	1C	Not used	—	—	—	—	59	1D	Not used	—	—	—	—	59	1E	Not used	—	—	—	—	59	1F	Terminal 13/14 selection	○	○	○	○	59	20 to 2F	External fault	○	○	○	○	59	60	DC injection braking command	○	○	○	○	60	61	External search command 1	○	×	○	×	60	62	External search command 2	○	×	○	×	60	63	Energy-saving operation	○	○	×	×	37	71	Speed/torque control selection	×	×	×	○	48	72	Zero-servo command	×	×	×	○	38	77	Speed control proportional gain 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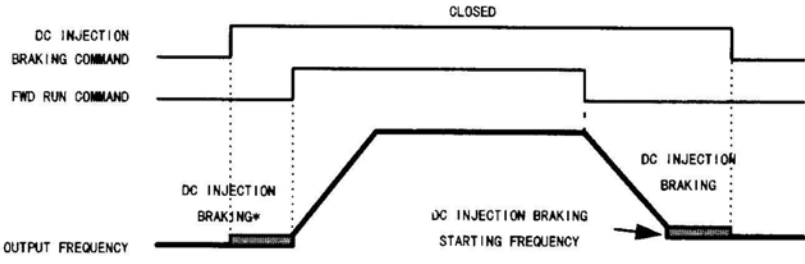
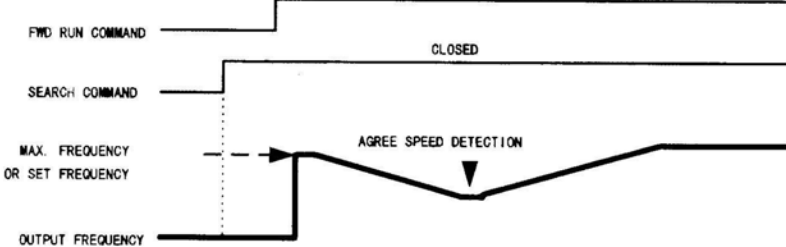
Set Value	Description
00	<p>● 3-wire sequence</p> <p>When 00 is set to H1-01 to 06, 3-wire sequence is entered. The terminal having set value of 00 becomes a FWD/REV run command.</p> <p>(Typical Setting)</p> <p>The following shows the time chart.</p>
01	<p>● Local/remote selection</p> <p>Operation signal selection is effective only during stop.</p> <p>Open : Runs according to the setting of B1-01 or B1-02 in the remote mode.</p> <p>Closed : Runs by digital operator frequency reference or run command in the local mode.</p> <p>Note : When local/remote selection is set by multi-function input terminal, digital operator local/remote selection becomes invalid.</p>
02	<p>● Option/inverter selection</p> <p>Selects whether operation is performed with option card reference or inverter reference. Option/inverter selection is effective only during stop.</p> <p>Open : Runs by frequency reference and run command from inverter control circuit terminal or digital operator.</p> <p>Closed : Runs by frequency reference and run command from option card.</p>
08	<p>● External baseblock</p> <p>Baseblock operation is performed at "closed". External baseblock operation differs as described below, depending on the run command input status.</p> <ul style="list-style-type: none"> <li>- When an external baseblock signal is input during run, BB blinks on the digital operator to shut OFF inverter output. When the external baseblock signal is removed, operation restarts with the frequency reference obtained before baseblock. At this time, voltage recovers up to the set value in the voltage recovery time (L2-04).</li> <li>- When a stop signal is input and an external baseblock signal is input while the inverter is decelerating, BB blinks on the digital operator to shut OFF inverter output and stop the operation.</li> </ul>

Set Value	Description
09	<ul style="list-style-type: none"> <li>External baseblock Baseblock is performed at "open" The other sequence is the same as that of set value =08.</li> </ul>
0A	<ul style="list-style-type: none"> <li>Accel/decel stop (HOLD) command Accel/decel is stopped while an accel/decel stop command is input, and the current output frequency is held. When a stop command is input, the accel/decel stopped status is released to stop operation. The following shows the time chart.</li> </ul> <div data-bbox="539 533 1331 808" data-label="Figure"> </div> <ul style="list-style-type: none"> <li>Note : When D4-01 is set to 1 and accel/decel stop command is input, by inputting a run command again after a stop command is input, the held output frequency is stored unless the accel/decel stop command is released. Therefore, operation is performed at the stored frequency. When the power supply is turned OFF in the status where the accel/decel stop command is input, the held output frequency is also stored. When D4-01 is set to 0, the held output frequency is not stored.</li> </ul>
0B	<ul style="list-style-type: none"> <li>Inverter overheat alarm While the inverter overheat alarm signal is input, only OH2 is displayed, blinking, on the digital operator. Used for monitoring inverter ambient temperature.</li> </ul>
0C	<ul style="list-style-type: none"> <li>Multi-function analog input enable/disable When this function is selected for multi-function terminal, the functions set to multi-function analog input have the following limitation. Open : Multi-function analog input is not accepted. Closed : Multi-function analog input is accepted.</li> </ul>
0D	<ul style="list-style-type: none"> <li>Speed control disabled Speed control disabled/enabled selection is possible even during running. However, speed control integral value is held until stop. Open : Speed control enabled (closed loop) Closed : Speed control disabled (open loop)</li> </ul>
0E	<ul style="list-style-type: none"> <li>Speed control integral value reset This function is effective only when F1-07 (integral control selection during accel/decel)=0. Speed control integral value reset is enabled even during running. Open : PI-control (Speed control integral values are added.) Closed : P-control (Speed control integral values are reset by integral time constant.)</li> </ul>

Set Value	Description															
10, 11	<p>● UP/DOWN commands</p> <p>By inputting UP and DOWN signals, accel/decel can be performed for operation at an aimed speed without changing frequency reference while a FWD(REV) run command is input.</p> <p>Set value = 10: UP signal Set value = 11: DOWN signal</p> <table border="1" data-bbox="427 387 1070 501"> <tr> <td>UP Command</td> <td>Closed</td> <td>Open</td> <td>Open</td> <td>Closed</td> </tr> <tr> <td>DOWN Command</td> <td>Open</td> <td>Closed</td> <td>Open</td> <td>Closed</td> </tr> <tr> <td>Status</td> <td>Accel</td> <td>Decel</td> <td>HOLD</td> <td>HOLD</td> </tr> </table> <p>The following shows the time chart where UP/DOWN commands are used.</p>  <p>U = UP (acceleration) status D = DOWN (deceleration) status H = HOLD (constant speed) status U1 = During clamping at upper limit speed in UP status D1 = During clamping at lower limit speed in DOWN status</p> <p>Notes:</p> <ol style="list-style-type: none"> <li>To use UP/DOWN commands, be sure to set 1 to B1-01 setting (frequency reference selection). Set value = 1: UP/DOWN commands enabled. Set value ≠ 1: UP/DOWN commands disabled.</li> <li>Upper limit speed = Max. output frequency (E1-04) × Frequency upper limit (D2-01)</li> <li>Lower limit value is either frequency reference limit (D2-01) or master frequency reference from control circuit terminal 13 or 14.</li> <li>When D4-01=1, even if the power supply is turned OFF in the status where accel/decel stop (HOLD) command is input, the held output frequency is stored. When D4-01=0, the held output frequency is stored.</li> <li>If a jog frequency reference is input during run by UP/DOWN commands, the jog reference has priority.</li> <li>When UP and DOWN commands are set together, a setting error (OPE03) occurs.</li> <li>When multi-function input accel/decel stop (HOLD) command is set simultaneously, a setting error (OPE03) occurs.</li> </ol>	UP Command	Closed	Open	Open	Closed	DOWN Command	Open	Closed	Open	Closed	Status	Accel	Decel	HOLD	HOLD
UP Command	Closed	Open	Open	Closed												
DOWN Command	Open	Closed	Open	Closed												
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Set Value	Description																																																																																																																																																																													
12, 13	<ul style="list-style-type: none"> <li>FJOG command, RJOG command</li> </ul> <p>FWD and REV run jog frequency operations are enabled.</p> <p>Set value = 12 FJOG command closed : FWD run at jog frequency reference (D1-09).</p> <p>Set value = 13 RJOG command closed : REV run at jog frequency reference (D1-09).</p> <p>Notes:</p> <ol style="list-style-type: none"> <li>When FJOG command is input during run, FJOG command and RJOG command have priority.</li> <li>When both FJOG command and RJOG command are closed more than 500ms, the inverter stops according to the stopping method selection (B1-03).</li> <li>FJOG command or RJOG command can be set independently.</li> </ol>																																																																																																																																																																													
14	<ul style="list-style-type: none"> <li>Fault reset</li> </ul> <p>Closed : Resets a fault.</p>																																																																																																																																																																													
1B	<ul style="list-style-type: none"> <li>Constant write-in prohibition</li> </ul> <p>Open : To write in constants is prohibited.</p> <p>Closed : To write in constants is permitted.</p>																																																																																																																																																																													
1F	<ul style="list-style-type: none"> <li>Terminal 13/14 selection</li> </ul> <p>Open : Terminal 13 is regarded as the master frequency reference.</p> <p>Closed : Terminal 14 is regarded as the master frequency reference.</p> <p>When "1F" (terminal 13/14 selection) is not set to multi-function input terminal function selection (H1-01 to H1-06) and when terminal 14 (H3-09) is set to "1F" (master frequency reference), the master frequency reference becomes the sum of terminals 13 and 14.</p> <p>When the set value of H3-09 is other than 1F and multi-function input terminal 13/14 selection (set value 1F) is set, a setting error (OPE03) occurs.</p>																																																																																																																																																																													
20 to 2F	<ul style="list-style-type: none"> <li>External fault</li> </ul> <p>Used to stop the inverter or send an alarm to external devices at fault of peripheral devices, etc.</p> <table border="1"> <thead> <tr> <th colspan="2">Set Value (HEX input) (Same date cannot be set.)</th> <th colspan="8">Selection Mode</th> </tr> <tr> <th rowspan="2">2nd Digit</th> <th rowspan="2">3rd Digit</th> <th colspan="2">Contact Mode</th> <th colspan="2">Detection Mode</th> <th colspan="4">Stopping Method</th> </tr> <tr> <th>NO contact input</th> <th>NC contact input</th> <th>Always detected</th> <th>Detected during run</th> <th>Decel to stop (major fault)</th> <th>Coasting to stop (major fault)</th> <th>Emergency stop (major fault)</th> <th>Continuous operation (major fault)</th> </tr> </thead> <tbody> <tr><td rowspan="16">2</td><td>0</td><td><input type="radio"/></td><td></td><td><input type="radio"/></td><td></td><td><input type="radio"/></td><td></td><td></td><td></td></tr> <tr><td>1</td><td></td><td><input type="radio"/></td><td><input type="radio"/></td><td></td><td><input type="radio"/></td><td></td><td></td><td></td></tr> <tr><td>2</td><td><input type="radio"/></td><td></td><td></td><td><input type="radio"/></td><td><input type="radio"/></td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td><input type="radio"/></td><td><input type="radio"/></td><td></td><td><input type="radio"/></td><td></td><td></td><td></td></tr> <tr><td>4</td><td><input type="radio"/></td><td></td><td></td><td><input type="radio"/></td><td></td><td></td><td><input type="radio"/></td><td></td></tr> <tr><td>5</td><td></td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td></td><td></td><td><input type="radio"/></td><td></td></tr> <tr><td>6</td><td><input type="radio"/></td><td></td><td></td><td></td><td><input type="radio"/></td><td></td><td><input type="radio"/></td><td></td></tr> <tr><td>7</td><td></td><td><input type="radio"/></td><td><input type="radio"/></td><td></td><td><input type="radio"/></td><td></td><td><input type="radio"/></td><td></td></tr> <tr><td>8</td><td><input type="radio"/></td><td></td><td></td><td><input type="radio"/></td><td></td><td></td><td></td><td><input type="radio"/></td></tr> <tr><td>9</td><td></td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td></td><td></td><td></td><td><input type="radio"/></td></tr> <tr><td>A</td><td><input type="radio"/></td><td></td><td></td><td></td><td><input type="radio"/></td><td></td><td></td><td><input type="radio"/></td></tr> <tr><td>B</td><td></td><td><input type="radio"/></td><td><input type="radio"/></td><td></td><td><input type="radio"/></td><td></td><td></td><td><input type="radio"/></td></tr> <tr><td>C</td><td><input type="radio"/></td><td></td><td></td><td><input type="radio"/></td><td></td><td></td><td></td><td></td></tr> <tr><td>D</td><td></td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td></td><td></td><td></td><td><input type="radio"/></td></tr> <tr><td>E</td><td><input type="radio"/></td><td></td><td></td><td></td><td><input type="radio"/></td><td></td><td></td><td><input type="radio"/></td></tr> <tr><td>F</td><td></td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td></td><td></td><td><input type="radio"/></td></tr> </tbody> </table> <p>(Example) When "24" is set to H1-06 (terminals 8-11 function selection)</p> <ul style="list-style-type: none"> <li>An external fault occurs when it is closed between terminals 8 and 11 (NO contact).</li> <li>An external fault is always detected.</li> <li>An external fault is regarded as a major fault and the motor coasts to stop.</li> </ul>	Set Value (HEX input) (Same date cannot be set.)		Selection Mode								2nd Digit	3rd Digit	Contact Mode		Detection Mode		Stopping Method				NO contact input	NC contact input	Always detected	Detected during run	Decel to stop (major fault)	Coasting to stop (major fault)	Emergency stop (major fault)	Continuous operation (major fault)	2	0	<input type="radio"/>		<input type="radio"/>		<input type="radio"/>				1		<input type="radio"/>	<input type="radio"/>		<input type="radio"/>				2	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>				3		<input type="radio"/>	<input type="radio"/>		<input type="radio"/>				4	<input type="radio"/>			<input type="radio"/>			<input type="radio"/>		5		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>		6	<input type="radio"/>				<input type="radio"/>		<input type="radio"/>		7		<input type="radio"/>	<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		8	<input type="radio"/>			<input type="radio"/>				<input type="radio"/>	9		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	A	<input type="radio"/>				<input type="radio"/>			<input type="radio"/>	B		<input type="radio"/>	<input type="radio"/>		<input type="radio"/>			<input type="radio"/>	C	<input type="radio"/>			<input type="radio"/>					D		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	E	<input type="radio"/>				<input type="radio"/>			<input type="radio"/>	F		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>
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Set Value	Description
60	<p>● DC injection braking command</p> <p>When a DC injection braking command is input during inverter stop, DC injection braking operation is performed.</p> <p>When a run command or a jog command is input, DC injection braking is released to start operation. (Operation has a priority.)</p> <p>The following shows the time chart.</p>  <p>* : When A1-01=3 (flux vector control), initial excitation (exciting current) is executed.</p>
61, 62	<p>● Search command</p> <p>To start a coasting motor for commercial power supply and inverter changing operation etc., operation is enabled without tripping the motor by using the speed search function.</p> <p>Set value = 61: Starts speed search from the max. frequency.</p> <p>Set value = 62: Starts speed search from the frequency reference value set at search command input.</p> <p>Note : For V/f control with PG feedback and flux vector control (A1-02=01 or 03), acceleration starts from set motor speed.</p> <p>The following shows the time chart when a speed search command is input.</p>  <p>When the search command is closed and run command is input during baseblock, speed search starts after the min. baseblock time (L2-03).</p> <p>Note :</p> <ol style="list-style-type: none"> <li>1. In the continuous operation mode at a power loss, speed search starts from the current output frequency disregarding whether any run command or search command is provided. After completion of speed search, operation is performed according to the run command.</li> <li>2. Search commands with set values 61 or 62 cannot be set simultaneously.</li> </ol>