

TOSVERT VF-AS1

Parameter List

VF-AS1 Parameter List

| | |
|---------------------------|--|
| Setting date | |
| Customer | |
| End user | |
| Application | |
| Application No/ Serial No | |
| Inverter's Type-Form | |
| Quantity | |
| Inverter's Serial No | |
| Motor's capacity | |

If user's setting value is same as shipping value, entry column is blank.

-Connected option

| |
|---------------------------|
| Option's name (Type-Form) |
| |
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| |
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| |
| |

-Terminal stand use state

| | Terminal Name | Use state |
|------------------------|-----------------------------------|----------------------|
| Main terminal block | PA/+ | |
| | PB | |
| | PC/- | |
| | P0 | |
| | R/L1 | |
| | S/L2 | |
| | T/L3 | |
| | U/T1 | |
| | V/T2 | |
| | W/T3 | |
| | R0 *1 | |
| | S0 *1 | |
| | T0 *1 | |
| | E/G | |
| Control terminal block | +SU | |
| | F | |
| | R | |
| | ST | |
| | RES | |
| | S1 | |
| | S2 | |
| | S3 | |
| | CC | |
| | PP | |
| | RR/S4 | |
| | VI/II | |
| | RX | |
| | FM | |
| | AM | |
| | CCA | |
| | P24 | |
| | OUT1 | |
| | OUT2 | |
| | NO | |
| | CC | |
| | FLA | |
| | FLB | |
| | FLC | |
| Switch | SW1 (Sink/Source switching) | INT/PLC , PLC , INT |
| | SW2 (FM output switching) | 0-10V/0-20mA , 0-1mA |
| | SW3 (RR/S4 terminal switching) | S4 , RR |
| | SW4 (OUT1 output switching) | PULS , LO |

*1: Only for over 200V-75kW, 400V-110kW.

1. Basic parameter [1/2]

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f | User setting |
|-------------|-------------------|---|--|--|-----------------|----------------------|--|--|--|--|--------------|
| | | | | | | | Speed control | Torque control | | | |
| <i>RH</i> | - | History function | | 1/1 | - | - | ●/● | ●/● | ● | ● | |
| <i>RU1</i> | 0000 | Automatic acceleration/deceleration | 0: Deselect 1: Automatic setting 2: Automatic setting (during acceleration only) | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| <i>RU2</i> | 0001 | Automatic torque boost | 0: Deselect 1: Automatic torque boost + auto-tuning 1 2: Sensorless vector control 1+ auto-tuning 1 | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| <i>RU4</i> | 0040 | Automatic function setting | 0: Disabled 1: Frequency setting by means of voltage 2: Frequency setting by means of current 3: Voltage/current switching from external terminal 4: Frequency setting on operation panel and operation by means of terminals 5: Frequency setting and operation on operation panel | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| <i>END</i> | 0003 | Command mode selection | 0: Terminal input enabled 1: Operation panel input enabled (including LED/LCD option input) 2: Operation panel RS485 (2-wire) communication input 3: Internal RS485 (4-wire) communication input 4: Communication option input | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| <i>FND</i> | 0004 | Frequency setting mode selection 1 | 1: V/I (voltage/current input) 2: RR/S4 (potentiometer/voltage input) 3: RX (voltage input) 4: Operation panel input enabled (including LED/LCD option input) 5: Operation panel RS485 (2-wire) communication input 6: Internal RS485 (4-wire) communication input 7: Communication option input 8: Optional AI1 (differential current input) 9: Optional AI2 (voltage/current input) 10: UP/DOWN frequency 11: RP pulse input 12: High-speed pulse input 13: Binary/BCD input | 1/1 | 2 | Disabled | ●/● | - | ● | ● | |
| <i>Pt</i> | 0015 | V/f control mode selection | 0: Constant torque characteristics 1: Voltage decrease curve 2: Automatic torque boost 3: Sensorless vector control 1 (speed) 4: Sensorless vector control 2 (speed/torque) 5: V/f 5-point setting 6: PM control 7: PG feedback vector control 1 (speed) 8: PG feedback vector control 2 (speed/torque) | 1/1 | 0 | Disabled | -/- -/- ●/- ●/- ●/- -/- -/- -/- -/- -/- | -/- -/- -/- -/- ●/- -/- -/- -/- -/- -/- | - - - - - ● - - - - | ● ● - - - ● - - - - | |
| <i>ub</i> | 0016 | Manual torque boost 1 | 0.0~30.0% | 0.1/0.1 | *1 | Enabled | - | - | ● | ● | |
| <i>UL</i> | 0014 | Base frequency 1 | 25.0~500.0Hz | 0.1/0.01 | *3 | Disabled | ●/● | ●/● | ● | ● | |
| <i>ULU</i> | 0409 | Base frequency voltage 1 | 200V class:50~330V 400V class:50~660V | 1/0.1 | *1 | Disabled | ●/● | ●/● | ● | ● | |
| <i>FH</i> | 0011 | Maximum frequency | 30.0~500.0Hz | 0.1/0.01 | 80.0 | Disabled | ●/● | ●/● | ● | ● | |
| <i>UL</i> | 0012 | Upper limit frequency | 0.0~FH Hz | 0.1/0.01 | *3 | Enabled | ●/● | - | ● | ● | |
| <i>LL</i> | 0013 | Lower limit frequency | 0.0~LL Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| <i>RLT</i> | 0009 | Acceleration time 1 | 0.1~6000 sec. | 0.1/0.1 *2 | *1 | Enabled | ●/● | - | ● | ● | |
| <i>dLT</i> | 0010 | Deceleration time 1 | 0.1~6000 sec. | 0.1/0.1 *2 | *1 | Enabled | ●/● | - | ● | ● | |
| <i>RUf2</i> | 0213 | RR/S4 input point 2 frequency | 0.0~FH Hz | 0.1/0.01 | *3 | Enabled | ●/● | - | ● | ● | |
| <i>RIf2</i> | 0204 | V/I input point 2 frequency | 0.0~FH Hz | 0.1/0.01 | *3 | Enabled | ●/● | - | ● | ● | |
| <i>sr1</i> | 0018 | Preset speed operation frequency 1 | LL~UL Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| <i>sr2</i> | 0019 | Preset speed operation frequency 2 | LL~UL Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| <i>sr3</i> | 0020 | Preset speed operation frequency 3 | LL~UL Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| <i>sr4</i> | 0021 | Preset speed operation frequency 4 | LL~UL Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| <i>sr5</i> | 0022 | Preset speed operation frequency 5 | LL~UL Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| <i>sr6</i> | 0023 | Preset speed operation frequency 6 | LL~UL Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| <i>sr7</i> | 0024 | Preset speed operation frequency 7 | LL~UL Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| <i>Fr</i> | 0008 | Forward run/reverse run selection (operation panel operation) | 0: Forward run 1: Forward run 2: Forward run (Forward/reverse switchable on operation panel) 3: Reverse run (Forward/reverse switchable on operation panel) | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |

*1: Default values vary depending on the capacity.
 *2: Changing the parameter *RLT* enables to set to 0.01 sec. (adjustment range: 0.01~600.0 sec.).
 *3: Inverter with a model number ending with -WN: 60.0 -WP: 50.0

1. Basic parameter [2/2]

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f | User setting | |
|-------|-------------------|--|--|--|---------------------|----------------------|----------------|----------------|------------|-----|--------------|--|
| | | | | | | | Speed control | Torque control | | | | |
| EH | 0600 | Motor overload protection level 1 | 10~100% | 1/1 | 100 | Enabled | ●/● | ●/● | ● | ● | | |
| OLN | 0017 | Motor overload protection characteristic selection | Setting | Motor type | Overload protection | OL stall | ●/● | ●/● | 5.14 | ● | ● | |
| | | | 0 | Standard Motor | ○ (protect) | × (not stall) | | | | | | |
| | | | 1 | | ○ (protect) | ○ (stall) | | | | | | |
| | | | 2 | | × (not protect) | × (not stall) | | | | | | |
| | | | 3 | VF Motor | × (not protect) | ○ (stall) | | | | | | |
| | | | 4 | | ○ (protect) | × (not stall) | | | | | | |
| | | | 5 | | ○ (protect) | ○ (stall) | | | | | | |
| | | | 6 | | × (not protect) | × (not stall) | | | | | | |
| 7 | × (not protect) | ○ (stall) | | | | | | | | | | |
| dSPU | 0701 | Current/voltage unit selection | 0%, 1:A (ampere)/V (volt) | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | | |
| FMSL | 0005 | FM terminal meter selection | 0~64 *1 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | | |
| FN | 0006 | FM terminal meter adjustment | - | 1/1 | - | Enabled | ●/● | ●/● | ● | ● | | |
| AMS L | 0670 | AM terminal meter selection | 0~64 *1 | 1/1 | 2 | Enabled | ●/● | ●/● | ● | ● | | |
| AN | 0671 | AM terminal meter adjustment | - | 1/1 | - | Enabled | ●/● | ●/● | ● | ● | | |
| CF | 0300 | PWM carrier frequency | 1.0~16.0kHz (1.0~8.0kHz) *2 | 0.1/0.1 | *3 | Enabled | ●/● | ●/● | ● | ● | | |
| UUS | 0301 | Auto-restart control selection | 0:Deselect 1:At auto-restart 2:ST ON/OFF switching 3:1+2 4:Starting | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | | |
| UUC | 0302 | Regenerative power ride-through control | 0:Deselect 1:Power ride-through 2:Deceleration stop during power failure 3:Synchronized deceleration/acceleration (synchronized acceleration/deceleration signal) 4:Synchronized deceleration/acceleration (synchronized acceleration/deceleration signal+power failure) | 1/1 | 0 | Disabled | ●/● | -/- | ● | ● | | |
| Pb | 0304 | Dynamic braking selection | 0:Deselect 1:Select (braking resistance overload detect) 2:Select (braking resistance overload not detect) | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | | |
| Pbr | 0308 | Dynamic braking resistance | 0.5~1000Ω | 0.1/0.1 | *3 | Disabled | ●/● | ●/● | ● | ● | | |
| PbCP | 0309 | Allowable continuous braking resistance | 0.01~600.0kW | 0.01/0.01 | *3 | Disabled | ●/● | ●/● | ● | ● | | |
| UY | 0007 | Factory default setting | 0:- 1:50 Hz default setting 2:60 Hz default setting 3:Factory default setting 4:Trip cleared 5:Cumulative operation time cleared 6:Type information initialized 7>User-defined parameter recorded 8:Item 7 above reset 9:Cumulative fan operation time cleared 10:Acceleration/deceleration time setting 0.01 sec.~600.0 sec. 11:Acceleration/deceleration time setting 0.1 sec.~6000sec. | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | | |
| PSEL | 0050 | Parameter display selection | 0:Standard setting mode at time of activation of motor 1:Quick mode at time of activation of motor 2:Quick mode only | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | | |
| F1- | - | Extended parameters | Set detailed parameters shown in the following pages. | - | - | - | ●/● | ●/● | ● | ● | | |
| F9- | - | Automatic edit function | - | - | - | - | ●/● | ●/● | ● | ● | | |

*1: → For the adjustment range, see the instruction manual. *2: For 200V-55/75kW models and 400V-90kW to 400V-280kW models, the carrier frequency is between 1.0 and 8.0kHz inclusive.
*3: Default values vary depending on the capacity.

2. Extended parameters

[1] Frequency signal

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f | User setting |
|-------|-------------------|-----------------------------------|------------------------|--|-----------------|----------------------|----------------|----------------|------------|-----|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F 100 | 0100 | Low-speed signal output frequency | 0.0~ $\frac{UL}{L}$ Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | ●/● | ● | ● | |
| F 101 | 0101 | Speed reach setting frequency | 0.0~ $\frac{UL}{L}$ Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | ●/● | ● | ● | |
| F 102 | 0102 | Speed reach detection band | 0.0~ $\frac{UL}{L}$ Hz | 0.1/0.01 | 2.5 | Enabled | ●/● | ●/● | ● | ● | |

[2] Input signal selection

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f | User setting |
|-------|-------------------|---|--|--|-----------------|----------------------|----------------|----------------|------------|-----|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F 105 | 0105 | Priority when forward/reverse run commands are entered simultaneously | 0:Reverse run, 1:Stop | 1/1 | 1 | Disabled | ●/● | ●/● | ● | ● | |
| F 106 | 0106 | Input terminal priority selection | 0:Deselect, 1:Select | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F 107 | 0107 | 16-bit binary/BCD input selection | 0:Deselect 1:12-bit binary input 2:16-bit binary input 3:3-digit BCD input 4:4-digit BCD input 5:12-bit binary input inverse 6:16-bit binary input inverse 7:3-digit BCD input inverse 8:4-digit BCD input inverse | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F 108 | 0108 | Analog VI/VII voltage/current switching | 0:Voltage input 1:Current input | 1/1 | 0 | Disabled | ●/● | -/- | ● | ● | |
| F 109 | 0109 | Analog AI2 (optional circuit board) voltage/current switching | 0:Voltage input 1:Current input | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |

[3] Terminal function selection

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f | User setting |
|-------|-------------------|---|------------------|--|-----------------|----------------------|----------------|----------------|------------|-----|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F 110 | 0110 | Always ON function selection 1 | 0~135 *1 | 1/1 | *3 | Disabled | ●/● | ●/● | ● | ● | |
| F 111 | 0111 | Input terminal function selection 1 (F) | 0~135 *1 | 1/1 | 2 | Disabled | ●/● | ●/● | ● | ● | |
| F 112 | 0112 | Input terminal function selection 2 (R) | 0~135 *1 | 1/1 | 4 | Disabled | ●/● | ●/● | ● | ● | |
| F 113 | 0113 | Input terminal function selection 3 (ST) | 0~135 *1 | 1/1 | 6 | Disabled | ●/● | ●/● | ● | ● | |
| F 114 | 0114 | Input terminal function selection 4 (RES) | 0~135 *1 | 1/1 | 8 | Disabled | ●/● | ●/● | ● | ● | |
| F 115 | 0115 | Input terminal function selection 5 (S1) | 0~135 *1 | 1/1 | 10 | Disabled | ●/● | ●/● | ● | ● | |
| F 116 | 0116 | Input terminal function selection 6 (S2) | 0~135 *1 | 1/1 | 12 | Disabled | ●/● | ●/● | ● | ● | |
| F 117 | 0117 | Input terminal function selection 7 (S3) | 0~135 *1 | 1/1 | 14 | Disabled | ●/● | ●/● | ● | ● | |
| F 118 | 0118 | Input terminal function selection 8 (RR/S4) | 0~135 *1 | 1/1 | 72 | Disabled | ●/● | ●/● | ● | ● | |
| F 119 | 0119 | Input terminal function selection 9 (L11) | 0~135 *1 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F 120 | 0120 | Input terminal function selection 10 (LI2) | 0~135 *1 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F 121 | 0121 | Input terminal selection 11 (LI3) | 0~135 *1 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F 122 | 0122 | Input terminal selection 12 (LI4) | 0~135 *1 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F 123 | 0123 | Input terminal selection 13 (LI5) | 0~135 *1 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F 124 | 0124 | Input terminal selection 14 (LI6) | 0~135 *1 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F 125 | 0125 | Input terminal selection 15 (LI7) | 0~135 *1 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F 126 | 0126 | Input terminal selection 16 (LI8) | 0~135 *1 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F 127 | 0127 | Always ON function selection 2 | 0~135 *1 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F 128 | 0128 | Always ON function selection 3 | 0~135 *1 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F 130 | 0130 | Output terminal function selection 1 (OUT1) | 0~255 *2 | 1/1 | 4 | Disabled | ●/● | ●/● | ● | ● | |
| F 131 | 0131 | Output terminal function selection 2 (OUT2) | 0~255 *2 | 1/1 | 6 | Disabled | ●/● | ●/● | ● | ● | |
| F 132 | 0132 | Output terminal function selection 3 (FL) | 0~255 *2 | 1/1 | 10 | Disabled | ●/● | ●/● | ● | ● | |
| F 133 | 0133 | Output terminal function selection 4 (OUT3) | 0~255 *2 | 1/1 | 254 | Disabled | ●/● | ●/● | ● | ● | |
| F 134 | 0134 | Output terminal function selection 5 (OUT4) | 0~255 *2 | 1/1 | 254 | Disabled | ●/● | ●/● | ● | ● | |
| F 135 | 0135 | Output terminal function selection 6 (R1) | 0~255 *2 | 1/1 | 254 | Disabled | ●/● | ●/● | ● | ● | |
| F 136 | 0136 | Output terminal function selection 7 (OUT5) | 0~255 *2 | 1/1 | 254 | Disabled | ●/● | ●/● | ● | ● | |
| F 137 | 0137 | Output terminal function selection 8 (OUT6) | 0~255 *2 | 1/1 | 254 | Disabled | ●/● | ●/● | ● | ● | |
| F 138 | 0138 | Output terminal function selection 9 (R2) | 0~255 *2 | 1/1 | 254 | Disabled | ●/● | ●/● | ● | ● | |

*1: ⇒ For the adjustment range, see the instruction manual. *2: ⇒ For the adjustment range, see the instruction manual. *3: Inverter with a model number ending with -WN: 0 -WP: 6

[4] Terminal response time setup

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f | User setting |
|-------|-------------------|--|------------------|--|-----------------|----------------------|----------------|----------------|------------|-----|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F140 | 0140 | Input terminal 1 response time selection (F) | 2~200ms | 1/1 | 8 | Disabled | ●/● | ●/● | ● | ● | |
| F141 | 0141 | Input terminal 2 response time selection (R) | 2~200ms | 1/1 | 8 | Disabled | ●/● | ●/● | ● | ● | |
| F142 | 0142 | Input terminal 3 response time selection (ST) | 2~200ms | 1/1 | 8 | Disabled | ●/● | ●/● | ● | ● | |
| F143 | 0143 | Input terminal 4 response time selection (RES) | 2~200ms | 1/1 | 8 | Disabled | ●/● | ●/● | ● | ● | |
| F144 | 0144 | Input terminal 5-12 response time selection | 2~200ms | 1/1 | 8 | Disabled | ●/● | ●/● | ● | ● | |
| F145 | 0145 | Input terminal 13-20 response time selection | 5~200ms | 1/1 | 8 | Disabled | ●/● | ●/● | ● | ● | |
| F164 | 0164 | Input terminal selection 17(B12) | 0~135 *1 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F165 | 0165 | Input terminal selection 18(B13) | 0~135 *1 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F166 | 0166 | Input terminal selection 19(B14) | 0~135 *1 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F167 | 0167 | Input terminal selection 20(B15) | 0~135 *1 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F168 | 0168 | Output terminal function selection 10 (R3) | 0~255 *2 | 1/1 | 254 | Disabled | ●/● | ●/● | ● | ● | |
| F169 | 0169 | Output terminal function selection 11 (R4) | 0~255 *2 | 1/1 | 254 | Disabled | ●/● | ●/● | ● | ● | |
| F170 | 0170 | Base frequency 2 | 25.0~FH Hz | 0.1/0.01 | *4 | Disabled | - | - | ● | ● | |
| F171 | 0171 | Base frequency voltage 2 | 50~330V/660V | 1/0.1 | *3 | Disabled | - | - | ● | ● | |
| F172 | 0172 | Manual torque boost 2 | 0.0~30.0% | 0.1/0.1 | *3 | Enabled | - | - | ● | ● | |
| F173 | 0173 | Motor overload protection level 2 | 10~100% | 1/1 | 100 | Enabled | - | - | ● | ● | |
| F174 | 0174 | Base frequency 3 | 25.0~FH Hz | 0.1/0.01 | *4 | Disabled | - | - | ● | ● | |
| F175 | 0175 | Base frequency voltage 3 | 50~330V/660V | 1/0.1 | *3 | Disabled | - | - | ● | ● | |
| F176 | 0176 | Manual torque boost 3 | 0.0~30.0% | 0.1/0.1 | *3 | Enabled | - | - | ● | ● | |
| F177 | 0177 | Motor overload protection level 3 | 10~100% | 1/1 | 100 | Enabled | - | - | ● | ● | |
| F178 | 0178 | Base frequency 4 | 25.0~FH Hz | 0.1/0.01 | *4 | Disabled | - | - | ● | ● | |
| F179 | 0179 | Base frequency voltage 4 | 50~330V/660V | 1/0.1 | *3 | Disabled | - | - | ● | ● | |
| F180 | 0180 | Manual torque boost 4 | 0.0~30.0% | 0.1/0.1 | *3 | Enabled | - | - | ● | ● | |
| F181 | 0181 | Motor overload protection level 4 | 10~100% | 1/1 | 100 | Enabled | - | - | ● | ● | |

*1: ⇒ For the adjustment range, see the the instruction manual.

*2: ⇒ For the adjustment range, see the instruction manual.

*3: Default values vary depending on the capacity.

*4: Inverter with a model number ending with -WN: 60.0 -WP: 50.0

[5] V/f 5-point setting

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f | User setting |
|-------|-------------------|-----------------------------------|------------------|--|-----------------|----------------------|----------------|----------------|------------|-----|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F190 | 0190 | V/f 5-point setting VF1 frequency | 0.0~FH Hz | 0.1/0.01 | 0.0 | Disabled | - | - | ● | ● | |
| F191 | 0191 | V/f 5-point setting VF1 voltage | 0.0~100.0% | 0.1/0.01 | 0.0 | Disabled | - | - | ● | ● | |
| F192 | 0192 | V/f 5-point setting VF2 frequency | 0.0~FH Hz | 0.1/0.01 | 0.0 | Disabled | - | - | ● | ● | |
| F193 | 0193 | V/f 5-point setting VF2 voltage | 0.0~100.0% | 0.1/0.01 | 0.0 | Disabled | - | - | ● | ● | |
| F194 | 0194 | V/f 5-point setting VF3 frequency | 0.0~FH Hz | 0.1/0.01 | 0.0 | Disabled | - | - | ● | ● | |
| F195 | 0195 | V/f 5-point setting VF3 voltage | 0.0~100.0% | 0.1/0.01 | 0.0 | Disabled | - | - | ● | ● | |
| F196 | 0196 | V/f 5-point setting VF4 frequency | 0.0~FH Hz | 0.1/0.01 | 0.0 | Disabled | - | - | ● | ● | |
| F197 | 0197 | V/f 5-point setting VF4 voltage | 0.0~100.0% | 0.1/0.01 | 0.0 | Disabled | - | - | ● | ● | |
| F198 | 0198 | V/f 5-point setting VF5 frequency | 0.0~FH Hz | 0.1/0.01 | 0.0 | Disabled | - | - | ● | ● | |
| F199 | 0199 | V/f 5-point setting VF5 voltage | 0.0~100.0% | 0.1/0.01 | 0.0 | Disabled | - | - | ● | ● | |

[6] Speed/torque reference gain/bias setup [1/2]

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f | User setting |
|-------|-------------------|--|--|--|-----------------|----------------------|----------------|----------------|------------|-----|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F200 | 0200 | Frequency priority selection | 0:FRQd/F207 terminal switching (input terminal function selection 104, 105) 1:FRQd/F207 frequency switching (switching with F208) | 1/1 | 0 | Enabled | ●/● | - | ● | ● | |
| F201 | 0201 | VI/II input point 1 setting | 0~100% | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F202 | 0202 | VI/II input point 1 frequency | 0.0~FH Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F203 | 0203 | VI/II input point 2 setting | 0~100% | 1/1 | 100 | Enabled | ●/● | ●/● | ● | ● | |
| F204 | 0204 | VI/II input point 2 frequency | 0.0~FH Hz | 0.1/0.01 | *1 | Enabled | ●/● | - | ● | ● | |
| F205 | 0205 | VI/II input point 1 rate | 0~250% (for torque control etc.) | 1/0.01 | 0 | Enabled | ●/● | ●/● | - | - | |
| F206 | 0206 | VI/II input point 2 rate | 0~250% (for torque control etc.) | 1/0.01 | 100 | Enabled | ●/● | ●/● | - | - | |
| F207 | 0207 | Frequency setting mode selection 2 | Same as FRQd (1~13) | 1/1 | 1 | Disabled | ●/● | - | ● | ● | |
| F208 | 0208 | Speed command priority switching frequency | 0.1~FH Hz | 0.1/0.01 | 0.1 | Enabled | ●/● | - | ● | ● | |
| F209 | 0209 | Analog input filter | 0:No filter 1:Filter approx. 10ms 2:Filter approx. 15ms 3:Filter approx. 30ms 4:Filter approx. 60ms | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F210 | 0210 | RR/S4 input point 1 setting | 0~100% | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F211 | 0211 | RR/S4 input point 1 frequency | 0.0~FH Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |

This parameter moves to a fundamental parameter.

*1: Inverter with a model number ending with -WN: 60.0 -WP: 50.0

[6] Speed/torque reference gain/bias setup [2/2]

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f | User setting |
|-------|-------------------|---|-------------------------------------|--|-----------------|----------------------|----------------|----------------|------------|-----|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F212 | 0212 | RR/S4 input point 2 setting | 0~100% | 1/1 | 100 | Enabled | ●/● | ●/● | ● | ● | |
| F213 | 0213 | RR/S4 input point 2 frequency | 0.0~FH Hz | 0.1/0.01 | *1 | Enabled | ●/● | - | ● | ● | |
| F214 | 0214 | RR/S4 input point 1 rate | 0~250% (for torque control etc.) | 1/0.01 | 0 | Enabled | ●/● | ●/● | - | - | |
| F215 | 0215 | RR/S4 input point 2 rate | 0~250% (for torque control etc.) | 1/0.01 | 100 | Enabled | ●/● | ●/● | - | - | |
| F216 | 0216 | RX input point 1 setting | -100~100% | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F217 | 0217 | RX input point 1 frequency | 0.0~FH Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F218 | 0218 | RX input point 2 setting | -100~100% | 1/1 | 100 | Enabled | ●/● | ●/● | ● | ● | |
| F219 | 0219 | RX input point 2 frequency | 0.0~FH Hz | 0.1/0.01 | *1 | Enabled | ●/● | - | ● | ● | |
| F220 | 0220 | RX input point 1 rate | -250~250% (for torque control etc.) | 1/0.01 | 0 | Enabled | ●/● | ●/● | - | - | |
| F221 | 0221 | RX input point 2 rate | -250~250% (for torque control etc.) | 1/0.01 | 100 | Enabled | ●/● | ●/● | - | - | |
| F222 | 0222 | AI1 input point 1 setting | -100~100% | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F223 | 0223 | AI1 input point 1 frequency | 0.0~FH Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F224 | 0224 | AI1 input point 2 setting | -100~100% | 1/1 | 100 | Enabled | ●/● | ●/● | ● | ● | |
| F225 | 0225 | AI1 input point 2 frequency | 0.0~FH Hz | 0.1/0.01 | *1 | Enabled | ●/● | - | ● | ● | |
| F226 | 0226 | AI1 input point 1 rate | -250~250% (for torque control etc.) | 1/0.01 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F227 | 0227 | AI1 input point 2 rate | -250~250% (for torque control etc.) | 1/0.01 | 100 | Enabled | ●/● | ●/● | ● | ● | |
| F228 | 0228 | AI2 input point 1 setting | 0~100% | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F229 | 0229 | AI2 input point 1 frequency | 0.0~FH Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F230 | 0230 | AI2 input point 2 setting | 0~100% | 1/1 | 100 | Enabled | ●/● | ●/● | ● | ● | |
| F231 | 0231 | AI2 input point 2 frequency | 0.0~FH Hz | 0.1/0.01 | *1 | Enabled | ●/● | - | ● | ● | |
| F234 | 0234 | RP/high speed pulse input point 1 setting | 0~100% | 1/1 | 0 | Enabled | ●/● | - | ● | ● | |
| F235 | 0235 | RP/high speed pulse input point 1 frequency | 0.0~FH Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F236 | 0236 | RP/high speed pulse input point 2 setting | 0~100% | 1/1 | 100 | Enabled | ●/● | - | ● | ● | |
| F237 | 0237 | RP/high speed pulse input point 2 frequency | 0.0~FH Hz | 0.1/0.01 | *1 | Enabled | ●/● | - | ● | ● | |

*1: This parameter moves to a fundamental parameter.
*1: Inverter with a model number ending with -WN: 60.0 -WP: 50.0

[7] Operation frequency

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f | User setting |
|-------|-------------------|--------------------------------------|------------------|--|-----------------|----------------------|----------------|----------------|------------|-----|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F240 | 0240 | Starting frequency setting | 0.0~10.0Hz | 0.1/0.01 | 0.1 | Enabled | ●/● | - | ● | ● | |
| F241 | 0241 | Operation start frequency | 0.0~FH Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F242 | 0242 | Operation start frequency hysteresis | 0.0~30.0Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F243 | 0243 | Stop frequency setting | 0.0~30.0Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F244 | 0244 | Frequency command dead band | 0.0~5.0Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |

[8] DC braking

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f | User setting |
|-------|-------------------|--|---------------------------------------|--|-----------------|----------------------|----------------|----------------|------------|-----|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F250 | 0250 | DC braking start frequency | 0.0~120.0Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F251 | 0251 | DC braking current | 0~100% | 1/1 | 50 | Enabled | ●/● | - | ● | ● | |
| F252 | 0252 | DC braking time | 0.0~20.0 sec. | 0.1/0.1 | 1.0 | Enabled | ●/● | - | ● | ● | |
| F253 | 0253 | Forward/reverse DC braking priority control | 0:OFF, 1:ON | 1/1 | 0 | Enabled | ●/● | - | ● | ● | |
| F254 | 0254 | Motor shaft fixing control | 0:Disabled, 1:Enabled | 1/1 | 0 | Enabled | ●/● | - | ● | ● | |
| F255 | 0255 | 0Hz command output selection | 0:Default (DC braking), 1:0Hz command | 1/1 | 0 | Enabled | -/● | - | ● | ● | |
| F256 | 0256 | Time limit for lower-limit frequency operation | 0.0:Disabled, 0.1~600.0 sec. | 0.1/0.1 | 0.0 | Enabled | ●/● | ●/● | ● | ● | |

[9] Jogging operation

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f | User setting |
|-------|-------------------|--|--|--|-----------------|----------------------|----------------|----------------|------------|-----|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F260 | 0260 | Jog run frequency | F240~20.0Hz | 0.1/0.01 | 5.0 | Enabled | ●/● | - | ● | ● | |
| F261 | 0261 | Jog run stop pattern | 0:Deceleration stop, 1:Coast stop, 2:DC braking stop | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F262 | 0262 | Operation panel jog run operation mode | 0:OFF, 1:Operation panel jog run mode enabled | 1/1 | 0 | Enabled | ●/● | - | ● | ● | |
| F264 | 0264 | Input from external contacts - UP response time | 0.0~10.0 sec. | 0.1/0.1 | 0.1 | Enabled | ●/● | - | ● | ● | |
| F265 | 0265 | Input from external contacts - UP frequency step | 0.0~FH Hz | 0.1/0.01 | 0.1 | Enabled | ●/● | - | ● | ● | |
| F266 | 0266 | Input from external contacts - DOWN response time | 0.0~10.0 sec. | 0.1/0.1 | 0.1 | Enabled | ●/● | - | ● | ● | |
| F267 | 0267 | Input from external contacts - DOWN frequency step | 0.0~FH Hz | 0.1/0.01 | 0.1 | Enabled | ●/● | - | ● | ● | |
| F268 | 0268 | Initial UP/DOWN frequency | L L ~U U Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F269 | 0269 | Initial up/down frequency | 0:Not rewrite, 1:Rewrite F268 when power is turned off | 1/1 | 1 | Enabled | ●/● | - | ● | ● | |

[10] Jump frequency

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f | User setting |
|-------|-------------------|------------------|------------------|--|-----------------|----------------------|----------------|----------------|------------|-----|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F270 | 0270 | Jump frequency 1 | 0.0~FH Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F271 | 0271 | Jump step 1 | 0.0~30.0Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F272 | 0272 | Jump frequency 2 | 0.0~FH Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F273 | 0273 | Jump step 2 | 0.0~30.0Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F274 | 0274 | Jump frequency 3 | 0.0~FH Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F275 | 0275 | Jump step 3 | 0.0~30.0Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

[11] Preset speed operation frequency (8~15)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f | User setting |
|-------|-------------------|--|------------------|--|-----------------|----------------------|----------------|----------------|------------|-----|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F287 | 0287 | Preset speed operation frequency 8 | LL~UL Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F288 | 0288 | Preset speed operation frequency 9 | LL~UL Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F289 | 0289 | Preset speed operation frequency 10 | LL~UL Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F290 | 0290 | Preset speed operation frequency 11 | LL~UL Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F291 | 0291 | Preset speed operation frequency 12 | LL~UL Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F292 | 0292 | Preset speed operation frequency 13 | LL~UL Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F293 | 0293 | Preset speed operation frequency 14 | LL~UL Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F294 | 0294 | Preset speed operation frequency 15 (Forced operation frequency) | LL~UL Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |

[12] Tripless intensification setup [1/2]

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f | User setting |
|-------|-------------------|---|--|--|-----------------|----------------------|----------------|----------------|------------|-----|--------------|
| | | | | | | | Speed control | Torque control | | | |
| LF | 0300 | PWM carrier frequency | 1.0~16.0kHz (1.0~8.0kHz) *1 | 0.1/0.1 | *2 | Enabled | ●/● | ●/● | ● | ● | |
| UW5 | 0301 | Auto-restart control selection | 0:Deselect, 1:At auto-restart 2:ST ON/OFF switching, 3:1+2, 4:Starting | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| UWC | 0302 | Regenerative power ride-through control | 0:Deselect 1:Power ride-through 2:Deceleration stop during power failure 3:Synchronized deceleration/acceleration (synchronized acceleration/deceleration signal) 4:Synchronized deceleration/acceleration (synchronized acceleration/deceleration signal+power failure) | 1/1 | 0 | Disabled | ●/● | -/- | ● | ● | |

This parameter moves to a fundamental parameter. *1: For 200V-55/75kW models and 400V-90kW to 400V-280kW models, the carrier frequency is between 1.0 and 8.0kHz inclusive.
*2: Default values vary depending on the capacity.

[12] Tripless intensification setup [2/2]

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f | User setting |
|-------|-------------------|---|--|--|-----------------|----------------------------|--|----------------|------------|-----|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F303 | 0303 | Retry selection | 0:Deselect, 1-10 times | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| Pb | 0304 | Dynamic braking selection | 0:Deselect 1>Select (braking resistance overload detect) 2>Select (braking resistance overload not detect) | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F305 | 0305 | Overvoltage limit operation | 0>Select 1:Deselect 2>Select (quick deceleration) 3>Select (dynamic quick deceleration) | 1/1 | 2 | Disabled | ●/● | ●/● | ● | ● | |
| F307 | 0307 | Base frequency voltage selection (correction of supply voltage) | 0:Supply voltage uncorrected (output voltage unlimited) 1:Supply voltage corrected (output voltage unlimited) 2:Supply voltage uncorrected (output voltage limited) 3:Supply voltage corrected (output voltage limited) | 1/1 | 0 | Disabled | Parameters are changeable, but fixed at 1 internally | | | ● | |
| Pbr | 0308 | Dynamic braking resistance | 0.5~1000Ω | 0.1/0.1 | *1 | Disabled | ●/● | ●/● | ● | ● | |
| PbCP | 0309 | Allowable continuous braking resistance | 0.01~600.0kW | 0.01/0.01 | *1 | Disabled | ●/● | ●/● | ● | ● | |
| F310 | 0310 | Non-stop control time/deceleration time during power failure | 0.1~320.0 sec. | 0.1/0.1 | 2.0 | Enabled *3/ Disabled | ●/● | -/- | ● | ● | |
| F311 | 0311 | Reverse-run prohibition selection | 0:Permit all 1:Prohibit reverse run 2:Prohibit forward run | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F312 | 0312 | Random mode | 0:Deselect, 1:Select | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F316 | 0316 | Carrier frequency control mode selection | 0:Not decrease carrier frequency automatically 1:Decrease carrier frequency automatically 2:Not decrease carrier frequency automatically, 400V class supported 3:Decrease carrier frequency automatically, 400V class supported | 1/1 | 1 | Disabled | ●/● | ●/● | ● | ● | |
| F317 | 0317 | Synchronized deceleration time (time elapsed between start of deceleration to stop) | 0.1~6000 sec. | 0.1/0.1 *2 | 2.0 | Enabled | ●/● | -/- | ● | ● | |
| F318 | 0318 | Synchronized acceleration time (time elapsed between start of acceleration to achievement of specified speed) | 0.1~6000 sec. | 0.1/0.1 *2 | 2.0 | Enabled | ●/● | -/- | ● | ● | |

This parameter moves to a fundamental parameter. *1: Default values vary depending on the capacity. ⇒ See the table of K-46.
*2: Changing the parameter LWP enables to set to 0.01 sec. (adjustment range: 0.01~600.0 sec.).
*3: Although the setting can be written into memory if UWC is set to 1 (power ride-through control), it cannot be written if UWC is set to 2 (deceleration stop during a power failure).

[13] Drooping control

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f | User setting |
|-------|-------------------|-----------------------------|--|--|-----------------|----------------------|----------------|----------------|------------|-----|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F320 | 0320 | Drooping gain | 0.0~100.0% (Enabled if PL=3, 4, 7 or 8) | 0.1/0.1 | 0.0 | Enabled | ●/● | - | - | - | |
| F321 | 0321 | Speed at drooping gain 0% | 0.0~320.0Hz (Enabled if PL=3, 4, 7 or 8) | 0.1/0.01 | 0.0 | Enabled | ●/● | - | - | - | |
| F322 | 0322 | Speed at drooping gain F320 | 0.0~320.0Hz (Enabled if PL=3, 4, 7 or 8) | 0.1/0.01 | 0.0 | Enabled | ●/● | - | - | - | |
| F323 | 0323 | Drooping insensitive torque | 0~100% (Enabled if PL=3, 4, 7 or 8) | 1/1 | 10 | Enabled | ●/● | - | - | - | |

[14] Functions for lift

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f | User setting |
|-------|-------------------|---|--|--|-----------------|----------------------|----------------|----------------|------------|-----|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F 324 | 0324 | Drifting output filter | 0.1~200.0 rad/s (Enabled if P _L =3, 4, 7 or 8) | 0.1/0.1 | 100.0 | Enabled | ●/● | - | - | - | - |
| F 328 | 0328 | Light-load high-speed operation selection | 0:Deselect 1:High-speed operation speed set automatically (Power running at F command: Increase) 2:High-speed operation speed set automatically (Power running at R command: Increase) 3:High-speed operation speed set with F 330 (Power running at F command: Increase) 4:High-speed operation speed set with F 330 (Power running at R command: Increase) | 1/1 | 0 | Enabled | ●/● | - | ● | ● | - |
| F 329 | 0329 | Light-load high-speed learning function | 0:No learning, 1:Forward run learning 2:Reverse run learning | 1/1 | 0 | Disabled | ●/● | - | - | - | - |
| F 330 | 0330 | Automatic light-load high-speed operation frequency | 30.0~U _L Hz | 0.1/0.01 | *1 | Disabled | ●/● | - | ● | ● | - |
| F 331 | 0331 | Light-load high-speed operation switching lower limit frequency | 30.0~U _L Hz | 0.1/0.01 | 40.0 | Enabled | ●/● | - | ● | ● | - |
| F 332 | 0332 | Light-load high-speed operation load waiting time | 0.0~10.0 sec. | 0.1/0.1 | 0.5 | Enabled | ●/● | - | ● | ● | - |
| F 333 | 0333 | Light-load high-speed operation load detection time | 0.0~10.0 sec. | 0.1/0.1 | 1.0 | Enabled | ●/● | - | ● | ● | - |
| F 334 | 0334 | Light-load high-speed operation heavy load detection time | 0.0~10.0 sec. | 0.1/0.1 | 0.5 | Enabled | ●/● | - | ● | ● | - |
| F 335 | 0335 | Switching load torque during power running | -250~250% | 1/0.01 | 50 | Enabled | ●/● | - | ● | ● | - |
| F 336 | 0336 | Heavy-load torque during power running | -250~250% | 1/0.01 | 100 | Enabled | ●/● | - | ● | ● | - |
| F 337 | 0337 | Heavy-load torque during constant power running | -250~250% | 1/0.01 | 50 | Enabled | ●/● | - | ● | ● | - |
| F 338 | 0338 | Switching load torque during regenerative braking | -250~250% | 1/0.01 | 50 | Enabled | ●/● | - | ● | ● | - |
| F 341 | 0341 | Braking mode selection | 0:Deselect, 1:Forward winding up 2:Reverse winding up 3:Horizontal operation (counter weight) | 1/1 | 0 | Enabled | ●/● | - | - | - | - |
| F 342 | 0342 | Load portion torque input selection | 0:Disabled, 1~8 (same as F 420) | 1/1 | 0 | Enabled | ●/● | - | - | - | - |
| F 343 | 0343 | Hoisting torque bias input (valid only when F 342=4) | -250~250% | 1/0.01 | 100 | Enabled | ●/● | - | - | - | - |
| F 344 | 0344 | Lowering torque bias multiplier | 0~100% | 1/0.01 | 100 | Enabled | ●/● | ●/● | ● | ● | - |
| F 345 | 0345 | Brake release time | 0.00~2.50 sec. | 0.01/0.01 | 0.05 | Enabled | ●/● | - | - | - | - |
| F 346 | 0346 | Creeping frequency | F 240~20.0 Hz | 0.1/0.01 | 3.0 | Enabled | ●/● | - | - | - | - |
| F 347 | 0347 | Creeping time | 0.0~2.5 sec. | 0.01/0.01 | 0.10 | Disabled | ●/● | - | - | - | - |
| F 348 | 0348 | Braking time learning function | 0:Deselect, 1: Learning (0 after adjustment) | 1/1 | 0 | Enabled | ●/● | - | - | - | - |
| F 349 | 0349 | Acceleration/deceleration suspend function | 0:Deselect, 1:Parameter setting, 2:Terminal input | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | - |
| F 350 | 0350 | Acceleration suspend frequency | 0.0~F _H Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | ●/● | ● | ● | - |
| F 351 | 0351 | Acceleration suspend time | 0.0~10.0 sec. | 0.1/0.1 | 0.0 | Enabled | ●/● | ●/● | ● | ● | - |
| F 352 | 0352 | Deceleration suspend frequency | 0.0~F _H Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | ●/● | ● | ● | - |
| F 353 | 0353 | Deceleration suspend time | 0.0~10.0 sec. | 0.1/0.1 | 0.0 | Enabled | ●/● | - | ● | ● | - |

*1: Inverter with a model number ending with -WN: 60.0 -WP: 50.0

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

[15] Commercial/inverter switching function

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f | User setting |
|-------|-------------------|--|--|--|-----------------|----------------------|----------------|----------------|------------|-----|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F 354 | 0354 | Commercial power/inverter switching output selection | 0:OFF 1:Automatic switching in the event of a trip 2:Commercial power switching frequency setting 3:Commercial power switching frequency setting + automatic switching in the event of a trip | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | - |
| F 355 | 0355 | Commercial power/inverter switching frequency | 0~U _L Hz | 0.1/0.01 | *2 | Enabled | ●/● | ●/● | ● | ● | - |
| F 356 | 0356 | Inverter-side switching waiting time | 0.10~10.00 sec. | 0.01/0.01 | *1 | Enabled | ●/● | ●/● | ● | ● | - |
| F 357 | 0357 | Commercial power-side switching waiting time | 0.40~10.00 sec. | 0.01/0.01 | 0.62 | Enabled | ●/● | ●/● | ● | ● | - |
| F 358 | 0358 | Commercial power switching frequency holding time | 0.10~10.00 sec. | 0.01/0.01 | 2.00 | Enabled | ●/● | ●/● | ● | ● | - |

*1: Default values vary depending on the capacity.

*2: Inverter with a model number ending with -WN: 60.0 -WP: 50.0

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

[16] PID control

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f | User setting |
|-------|-------------------|---|---|--|-----------------|----------------------|----------------|----------------|------------|-----|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F 359 | 0359 | PID control switching | 0:No PID control 1:Process type PID control (temp./pressure, etc.) operation 2:Speed type PID control (potentiometer, etc.) operation 3:Stop retaining P control | 1/1 | 0 | Disabled | ●/● | - | ● | ● | - |
| F 360 | 0360 | PID control feedback control signal selection | 0:Deviation input (no feedback input) 1:V/IL 2:RR/S4 3:RX 4:Optional AI1 5:Optional AI2 6: PG feedback option | 1/1 | 0 | Disabled | ●/● | - | ● | ● | - |
| F 361 | 0361 | Delay filter | 0.0~25.0 | 1/1 | 0.1 | Enabled | ●/● | - | ● | ● | - |
| F 362 | 0362 | Proportional (P) gain | 0.01~100.0 | 0.01/0.01 | 0.10 | Enabled | ●/● | - | ● | ● | - |
| F 363 | 0363 | Integral (I) gain | 0.01~100.0 | 0.01/0.01 | 0.10 | Enabled | ●/● | - | ● | ● | - |
| F 364 | 0364 | PID deviation upper limit | L _L ~U _L Hz | 0.1/0.01 | *1 | Enabled | ●/● | - | ● | ● | - |
| F 365 | 0365 | PID deviation lower limit | L _L ~U _L Hz | 0.1/0.01 | *1 | Enabled | ●/● | - | ● | ● | - |
| F 366 | 0366 | Differential (D) gain | 0.00~2.55 | 0.01/0.01 | 0.00 | Enabled | ●/● | - | ● | ● | - |

*1: Inverter with a model number ending with -WN: 60.0 -WP: 50.0

[17] Speed feedback/positioning control

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f | User setting |
|-------|-------------------|--|---|--|-----------------|----------------------|----------------|----------------|------------|-----|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F367 | 0367 | Process upper limit | L~UL Hz | 0.1/0.01 | *1 | Enabled | -/● | -/● | - | - | - |
| F368 | 0368 | Process lower limit | L~UL Hz | 0.1/0.01 | L | Enabled | -/● | -/● | - | - | - |
| F369 | 0369 | PID control waiting time | 0~2400 sec. | 1/1 | 0 | Enabled | -/● | -/● | - | - | - |
| F370 | 0370 | PID output upper limit | L~UL Hz | 0.1/0.01 | *1 | Enabled | - | - | - | - | - |
| F371 | 0371 | PID output lower limit | L~UL Hz | 0.1/0.01 | L | Enabled | - | - | - | - | - |
| F372 | 0372 | Process increasing rate (speed type PID control) | 0.1~600.0 | 0.1/0.1 | 10.0 | Enabled | - | - | - | - | - |
| F373 | 0373 | Process decreasing rate (speed type PID control) | 0.1~600.0 | 0.1/0.1 | 10.0 | Enabled | - | - | - | - | - |
| F375 | 0375 | Number of PG input pulses | 12~9999 | 1/1 | 500 | Disabled | ●/● | -/● | - | - | - |
| F376 | 0376 | Selection of number of PG input phases | 1:Single-phase input 2:Two-phase input | 1/1 | 2 | Disabled | ●/● | - | - | - | - |
| F377 | 0377 | PG disconnection detection | 0:Deselect 1:Select (with filter) 2:Select (Detection of momentary power failure) | 1/1 | 0 | Disabled | ●/● | - | - | - | - |
| F378 | 0378 | Number of RP terminal input pulses | 12~9999 | 1/1 | 500 | Disabled | ●/● | ●/● | - | - | - |
| F381 | 0381 | Simple positioning completion range | 1~4000 | 1/1 | 100 | Enabled | ●/● | - | ● | ● | - |

*1: Inverter with a model number ending with -WN: 60.0 -WP: 50.0

[18] Motor constant

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/fConstant | User setting |
|-------|-------------------|--|--|--|-----------------|----------------------|----------------|----------------|------------|-------------|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F400 | 0400 | Auto-tuning 1 | 0:No auto-tuning 1:Initialize motor constant (0 after execution) 2:Continue operation continued after auto-tuning (0 after execution) 3:Auto-tuning by input terminal signal 4:Motor constant auto calculation (0 after execution) | 1/1 | 0 | Disabled | ●/● | ●/● | - | - | - |
| F401 | 0401 | Slip frequency gain | 0~150% | 1/1 | 70 | Enabled | ●/● | - | - | - | - |
| F402 | 0402 | Auto-tuning 2 | 0:No tuning 1:Self-cooled motor tuning 2:Forced air-cooled motor tuning | 1/1 | 0 | Disabled | ●/● | ●/● | - | - | - |
| F405 | 0405 | Motor rated capacity (motor name plate) | 0.10~500.0kW | 0.01/0.01 | *1 | Enabled | ●/● | ●/● | - | - | - |
| F406 | 0406 | Motor rated current (motor name plate) | 0.1~2000A | 0.1/0.1 | *1 | Disabled | ●/● | ●/● | - | - | - |
| F407 | 0407 | Motor rated revolutions (motor name plate) | 100~60000min-1 | 1/1 | *1 | Disabled | ●/● | ●/● | - | - | - |
| F410 | 0410 | Motor constant 1 (torque boost) | 0.0~30.0% | 0.1/0.1 | *1 | Enabled | ●/● | ●/● | - | - | - |
| F411 | 0411 | Motor constant 2 (no load current) | 10~90% | 1/1 | *1 | Disabled | ●/● | ●/● | - | - | - |
| F412 | 0412 | Motor constant 3 (leak inductance) | 0~200% | 0.1/0.1 | *1 | Disabled | ●/● | ●/● | - | - | - |
| F413 | 0413 | Motor constant 4 (rated slip) | 0.1~25.0% | 0.1/0.1 | *1 | Enabled | ●/● | ●/● | - | - | - |
| F415 | 0415 | Exciting strengthening coefficient | 100~130% | 1/1 | 100 | Disabled | ●/● | ●/● | - | - | - |
| F416 | 0416 | Stall prevention factor | 10~250 | 1/1 | 100 | Disabled | ●/● | ●/● | - | - | - |

*1: Default values vary depending on the capacity.

[19] Torque control

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/fConstant | User setting |
|-------|-------------------|--|---|--|-----------------|----------------------|----------------|----------------|------------|-------------|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F420 | 0420 | Torque command selection | 1:VI/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:Operation panel input enabled (including LED/LCD option input) 5:Operation panel RS485 (2-wire) communication input 6:Internal RS485 (4-wire) communication input 7:Communications option input enabled 8:A1 (differential current input) | 1/1 | 3 | Enabled | - | ●/● | - | - | - |
| F423 | 0423 | Tension torque bias input selection (torque control) | 0:Disabled, 1~8 (same as F420) | 1/1 | 0 | Enabled | - | ●/● | - | - | - |
| F424 | 0424 | Load sharing gain input selection | 0:Disabled, 1~8 (same as F420) | 1/1 | 0 | Enabled | - | ●/● | - | - | - |
| F425 | 0425 | Forward speed limit input selection | 0:Disabled 1:VI/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:F426 enabled | 1/1 | 0 | Enabled | - | ●/● | - | - | - |
| F426 | 0426 | Forward speed limit input level | 0.0~UL Hz | 0.1/0.01 | *1 | Enabled | - | ●/● | - | - | - |
| F427 | 0427 | Reverse speed limit input selection | 0:Disabled 1:VI/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:F428 enabled | 1/1 | 0 | Enabled | - | ●/● | - | - | - |
| F428 | 0428 | Reverse speed limit input level | 0.0~UL Hz | 0.1/0.01 | *1 | Enabled | - | ●/● | - | - | - |
| F430 | 0430 | Speed limit (torque = 0) center value reference selection | 0:Disabled, 1:VI/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input), 4:F431 enabled | 1/1 | 0 | Enabled | - | ●/● | - | - | - |
| F431 | 0431 | Speed limit (torque = 0) center value | 0.0~FH Hz | 0.1/0.01 | 0.0 | Enabled | - | ●/● | - | - | - |
| F432 | 0432 | Speed limit (torque = 0) band | 0.0~FH Hz | 0.1/0.01 | 0.0 | Enabled | - | ●/● | - | - | - |
| F435 | 0435 | Prohibition of rotation in any direction other than the specified one (F or R) | 0:Disabled 1:Enabled | 1/1 | 0 | Enabled | - | ●/● | - | - | - |

*1: Inverter with a model number ending with -WN: 60.0 -WP: 50.0

[20] Torque limit

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f Constant | User setting |
|-------|-------------------|--|--|--|-----------------|----------------------|----------------|----------------|------------|--------------|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F440 | 0440 | Power running torque limit 1 selection | 1:VI/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:F441 | 1/1 | 4 | Enabled | ●/● | ●/● | ● | ● | |
| F441 | 0441 | Power running torque limit 1 level | 0.0~249.8%, 250.0%:Disabled | 0.1/0.01 | 250.0 | Enabled | ●/● | ●/● | ● | ● | |
| F442 | 0442 | Regenerative braking torque limit 1 selection | 1:VI/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:F443 | 1/1 | 4 | Enabled | ●/● | ●/● | ● | ● | |
| F443 | 0443 | Regenerative braking torque limit 1 level | 0.0~249.9%, 250.0%:Disabled | 0.1/0.01 | 250.0 | Enabled | ●/● | ●/● | ● | ● | |
| F444 | 0444 | Power running torque limit 2 level | 0.0~249.9%, 250.0%:Disabled | 0.1/0.01 | 250.0 | Enabled | ●/● | ●/● | ● | ● | |
| F445 | 0445 | Regenerative braking torque limit 2 level | 0.0~249.9%, 250.0%:Disabled | 0.1/0.01 | 250.0 | Enabled | ●/● | ●/● | ● | ● | |
| F446 | 0446 | Power running torque limit 3 level | 0.0~249.9%, 250.0%:Disabled | 0.1/0.01 | 250.0 | Enabled | ●/● | ●/● | ● | ● | |
| F447 | 0447 | Regenerative braking torque limit 3 level | 0.0~249.9%, 250.0%:Disabled | 0.1/0.01 | 250.0 | Enabled | ●/● | ●/● | ● | ● | |
| F448 | 0448 | Power running torque limit 4 level | 0.0~249.9%, 250.0%:Disabled | 0.1/0.01 | 250.0 | Enabled | ●/● | ●/● | ● | ● | |
| F449 | 0449 | Regenerative braking torque limit 4 level | 0.0~249.9%, 250.0%:Disabled | 0.1/0.01 | 250.0 | Enabled | ●/● | ●/● | ● | ● | |
| F451 | 0451 | Acceleration/deceleration operation after torque limit | 0:In sync with acceleration/deceleration 1:In sync with min. time | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F452 | 0452 | Power running stall continuous trip detection time | 0.0~1.0 sec. | 0.1/0.1 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F453 | 0453 | Regenerative braking stall prevention mode selection | 0:Stall during regenerative braking 1:Not stall during regenerative braking | 1/1 | 0 | Enabled | ●/● | - | ● | ● | |

[21] Adjustment parameters

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f Constant | User setting |
|-------|-------------------|---|------------------|--|-----------------|----------------------|----------------|----------------|------------|--------------|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F458 | 0458 | Current control proportional gain | 0.0~100.0 | 0.1/0.1 | 0.0 | Enabled | ●/● | ●/● | - | - | |
| F460 | 0460 | Speed loop proportional gain | 1~9999 | 1/1 | 40 | Enabled | ●/● | - | - | - | |
| F461 | 0461 | Speed loop stabilization coefficient | 1~9999 | 1/1 | 100 | Enabled | ●/● | - | - | - | |
| F462 | 0462 | Moment of inertia of load 1 | 0~100 | 1/1 | 35 | Enabled | ●/● | - | ● | - | |
| F463 | 0463 | Second speed loop proportional gain | 1~9999 | 1/1 | 40 | Enabled | ●/● | - | - | - | |
| F464 | 0464 | Second speed loop stabilization coefficient | 1~9999 | 1/1 | 100 | Enabled | ●/● | - | ● | - | |
| F465 | 0465 | Moment of inertia of load 2 | 0~100 | 1/1 | 35 | Enabled | ●/● | - | ● | - | |
| F466 | 0466 | Speed PI switching frequency | 0.0~FH Hz | 1/1 | 0.0 | Enabled | ●/● | - | - | - | |
| F470 | 0470 | VI/II input bias | 0~255 | 1/1 | *1 | Enabled | ●/● | ●/● | ● | ● | |
| F471 | 0471 | VI/II input gain | 0~255 | 1/1 | *1 | Enabled | ●/● | ●/● | ● | ● | |
| F472 | 0472 | RR/S4 input bias | 0~255 | 1/1 | *1 | Enabled | ●/● | ●/● | ● | ● | |
| F473 | 0473 | RR/S4 input gain | 0~255 | 1/1 | *1 | Enabled | ●/● | ●/● | ● | ● | |
| F474 | 0474 | RX input bias | 0~255 | 1/1 | *1 | Enabled | ●/● | ●/● | ● | ● | |
| F475 | 0475 | RX input gain | 0~255 | 1/1 | *1 | Enabled | ●/● | ●/● | ● | ● | |
| F476 | 0476 | Optional AI1 input bias | 0~255 | 1/1 | *1 | Enabled | ●/● | ●/● | ● | ● | |
| F477 | 0477 | Optional AI1 input gain | 0~255 | 1/1 | *1 | Enabled | ●/● | ●/● | ● | ● | |
| F478 | 0478 | Optional AI2 input bias | 0~255 | 1/1 | *1 | Enabled | ●/● | ●/● | ● | ● | |
| F479 | 0479 | Optional AI2 input gain | 0~255 | 1/1 | *1 | Enabled | ●/● | ●/● | ● | ● | |
| F498 | 0498 | PM motor constant 1 (d axis inductance) | 0~100% | 1/1 | 40 | Disabled | - | - | ● | - | |
| F499 | 0499 | PM motor constant 2 (q axis inductance) | 0~100% | 1/1 | 40 | Disabled | - | - | ● | - | |

*1: ⇒ Settings vary from unit to unit. Even if $\frac{L}{\sigma}$ is set to 3, no change is made to these values.

[22] Acceleration/deceleration 2

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/fConstant | User setting |
|-------|-------------------|--|--|--|-----------------|----------------------|----------------|----------------|------------|-------------|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F500 | 0500 | Acceleration time 2 | 0.1~6000 sec. | 0.1/0.1 *2 | *1 | Enabled | ●/● | - | ● | ● | |
| F501 | 0501 | Deceleration time 2 | 0.1~6000 sec. | 0.1/0.1 *2 | *1 | Enabled | ●/● | - | ● | ● | |
| F502 | 0502 | Acceleration/deceleration 1 pattern | 0: Straight, 1:S-pattern 1, 2:S-pattern 2 | 1/1 | 0 | Enabled | ●/● | - | ● | ● | |
| F503 | 0503 | Acceleration/deceleration 2 pattern | 0: Straight, 1:S-pattern 1, 2:S-pattern 2 | 1/1 | 0 | Enabled | ●/● | - | ● | ● | |
| F504 | 0504 | Acceleration/deceleration 1, 2, 3, 4 selection | 1: Acceleration/deceleration 1 2: Acceleration/deceleration 2 3: Acceleration/deceleration 3 4: Acceleration/deceleration 4 | 1/1 | 1 | Enabled | ●/● | - | ● | ● | |
| F505 | 0505 | Acceleration/deceleration switching frequency 1 | 0.0~FH Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F506 | 0506 | Acceleration S-pattern lower limit adjustment | 0~50% | 1/1 | 10 | Enabled | ●/● | - | ● | ● | |
| F507 | 0507 | Acceleration S-pattern upper limit adjustment | 0~50% | 1/1 | 10 | Enabled | ●/● | - | ● | ● | |
| F508 | 0508 | Deceleration S-pattern lower limit adjustment (accel./decel. time lower limit erase) | 0~50% | 1/1 | 10 | Enabled | ●/● | - | ● | ● | |
| F509 | 0509 | Deceleration S-pattern upper limit adjustment | 0~50% | 1/1 | 10 | Enabled | ●/● | - | ● | ● | |
| F510 | 0510 | Acceleration time 3 | 0.1~6000 sec. | 0.1/0.1 *2 | *1 | Enabled | ●/● | - | ● | ● | |
| F511 | 0511 | Deceleration time 3 | 0.1~6000 sec. | 0.1/0.1 *2 | *1 | Enabled | ●/● | - | ● | ● | |
| F512 | 0512 | Acceleration/ deceleration 3 pattern | 0: Straight, 1:S-pattern 1, 2:S-pattern 2 | 1/1 | 0 | Enabled | ●/● | - | ● | ● | |
| F513 | 0513 | Acceleration/deceleration switching frequency 2 | 0.0~FH Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |
| F514 | 0514 | Acceleration time 4 | 0.1~6000 sec. | 0.1/0.1 *2 | *1 | Enabled | ●/● | - | ● | ● | |
| F515 | 0515 | Deceleration time 4 | 0.1~6000 sec. | 0.1/0.1 *2 | *1 | Enabled | ●/● | - | ● | ● | |
| F516 | 0516 | Acceleration/ deceleration 4 pattern | 0: Straight, 1:S-pattern 1, 2:S-pattern 2 | 1/1 | 0 | Enabled | ●/● | - | ● | ● | |
| F517 | 0517 | Acceleration/deceleration switching frequency 3 | 0.0~FH Hz | 0.1/0.01 | 0.0 | Enabled | ●/● | - | ● | ● | |

*1: Default values vary depending on the capacity.

*2: Changing the parameter $\xi 4P$ enables to set to 0.01 sec. (adjustment range: 0.01~600.0 sec.).

[23] Pattern operation [1/2]

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/fConstant | User setting |
|-------|-------------------|--|--|--|-----------------|----------------------|----------------|----------------|------------|-------------|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F520 | 0520 | Pattern operation selection | 0:Deselect 1:Select (setting in units of seconds) 2:Select (setting in units of minutes) | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F521 | 0521 | Pattern operation mode | 0:Pattern operation reset when system stops operation 1:Pattern operation continued even after system stops operation | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F522 | 0522 | Number of repetitions of pattern group 1 | 1~254, 255:∞ | 1/1 | 1 | Disabled | ●/● | - | ● | ● | |
| F523 | 0523 | Pattern group 1 selection 1 | 0:Skip, 1~15 | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F524 | 0524 | Pattern group 1 selection 2 | 0:Skip, 1~15 | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F525 | 0525 | Pattern group 1 selection 3 | 0:Skip, 1~15 | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F526 | 0526 | Pattern group 1 selection 4 | 0:Skip, 1~15 | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F527 | 0527 | Pattern group 1 selection 5 | 0:Skip, 1~15 | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F528 | 0528 | Pattern group 1 selection 6 | 0:Skip, 1~15 | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F529 | 0529 | Pattern group 1 selection 7 | 0:Skip, 1~15 | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F530 | 0530 | Pattern group 1 selection 8 | 0:Skip, 1~15 | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F531 | 0531 | Number of repetitions of pattern group 2 | 1~254, 255:∞ | 1/1 | 1 | Disabled | ●/● | - | ● | ● | |
| F532 | 0532 | Pattern group 2 selection 1 | 0:Skip, 1~15 | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F533 | 0533 | Pattern group 2 selection 2 | 0:Skip, 1~15 | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F534 | 0534 | Pattern group 2 selection 3 | 0:Skip, 1~15 | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F535 | 0535 | Pattern group 2 selection 4 | 0:Skip, 1~15 | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F536 | 0536 | Pattern group 2 selection 5 | 0:Skip, 1~15 | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F537 | 0537 | Pattern group 2 selection 6 | 0:Skip, 1~15 | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F538 | 0538 | Pattern group 2 selection 7 | 0:Skip, 1~15 | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F539 | 0539 | Pattern group 2 selection 8 | 0:Skip, 1~15 | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |

[23] Pattern operation [2/2]

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f Constant | User setting |
|-------|-------------------|--|--|--|-----------------|----------------------|----------------|----------------|------------|--------------|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F540 | 0540 | Speed 1 operation time | 0.1~6000 (The unit depends on the setting of F520.) 6000:Infinite (depends on the stop trigger entered) | 0.1/0.1 | 5.0 | Enabled | ●/● | - | ● | ● | |
| F541 | 0541 | Speed 2 operation time | Ditto | 0.1/0.1 | 5.0 | Enabled | ●/● | - | ● | ● | |
| F542 | 0542 | Speed 3 operation time | Ditto | 0.1/0.1 | 5.0 | Enabled | ●/● | - | ● | ● | |
| F543 | 0543 | Speed 4 operation time | Ditto | 0.1/0.1 | 5.0 | Enabled | ●/● | - | ● | ● | |
| F544 | 0544 | Speed 5 operation time | Ditto | 0.1/0.1 | 5.0 | Enabled | ●/● | - | ● | ● | |
| F545 | 0545 | Speed 6 operation time | Ditto | 0.1/0.1 | 5.0 | Enabled | ●/● | - | ● | ● | |
| F546 | 0546 | Speed 7 operation time | Ditto | 0.1/0.1 | 5.0 | Enabled | ●/● | - | ● | ● | |
| F547 | 0547 | Speed 8 operation time | Ditto | 0.1/0.1 | 5.0 | Enabled | ●/● | - | ● | ● | |
| F548 | 0548 | Speed 9 operation time | Ditto | 0.1/0.1 | 5.0 | Enabled | ●/● | - | ● | ● | |
| F549 | 0549 | Speed 10 operation time | Ditto | 0.1/0.1 | 5.0 | Enabled | ●/● | - | ● | ● | |
| F550 | 0550 | Speed 11 operation time | Ditto | 0.1/0.1 | 5.0 | Enabled | ●/● | - | ● | ● | |
| F551 | 0551 | Speed 12 operation time | Ditto | 0.1/0.1 | 5.0 | Enabled | ●/● | - | ● | ● | |
| F552 | 0552 | Speed 13 operation time | Ditto | 0.1/0.1 | 5.0 | Enabled | ●/● | - | ● | ● | |
| F553 | 0553 | Speed 14 operation time | Ditto | 0.1/0.1 | 5.0 | Enabled | ●/● | - | ● | ● | |
| F554 | 0554 | Speed 15 operation time | Ditto | 0.1/0.1 | 5.0 | Enabled | ●/● | - | ● | ● | |
| F560 | 0560 | Preset speed operation mode selection | 0:Preset speed operation with no mode 1:Preset speed operation with mode | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F561 | 0561 | Preset speed operation frequency 1 operation mode | 0:Forward run +1:Reverse run +2:Acceleration/deceleration switching signal 1 +4:Acceleration/deceleration switching signal 2 +8:V/f switching signal 1 +16:V/f switching signal 2 +32:Torque limit switching signal 1 +64:Torque limit switching signal 2 | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F562 | 0562 | Preset speed operation frequency 2 operation mode | Ditto | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F563 | 0563 | Preset speed operation frequency 3 operation mode | Ditto | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F564 | 0564 | Preset speed operation frequency 4 operation mode | Ditto | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F565 | 0565 | Preset speed operation frequency 5 operation mode | Ditto | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F566 | 0566 | Preset speed operation frequency 6 operation mode | Ditto | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F567 | 0567 | Preset speed operation frequency 7 operation mode | Ditto | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F568 | 0568 | Preset speed operation frequency 8 operation mode | Ditto | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F569 | 0569 | Preset speed operation frequency 9 operation mode | Ditto | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F570 | 0570 | Preset speed operation frequency 10 operation mode | Ditto | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F571 | 0571 | Preset speed operation frequency 11 operation mode | Ditto | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F572 | 0572 | Preset speed operation frequency 12 operation mode | Ditto | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F573 | 0573 | Preset speed operation frequency 13 operation mode | Ditto | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F574 | 0574 | Preset speed operation frequency 14 operation mode | Ditto | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F575 | 0575 | Preset speed operation frequency 15 operation mode | Ditto | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |

[24] Protection functions [1/2]

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f Constant | User setting |
|-------|-------------------|--|---|--|-----------------|----------------------|----------------|----------------|------------|--------------|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F601 | 0601 | Stall prevention level | 0~165%, 165%:Deactivated | 1/1 | 150 | Enabled | ●/● | - | ● | ● | |
| F602 | 0602 | Inverter trip record retention selection | 0:Clear when power is turned off 1:Retain even after power is turned off | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F603 | 0603 | Emergency stop | 0:Coast stop 1:Deceleration stop 2:Emergency DC braking 3:Deceleration stop (deceleration 4) | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F604 | 0604 | Emergency DC braking control time | 0.0~20.0 sec. | 0.1/0.1 | 1.0 | Enabled | ●/● | ●/● | ● | ● | |
| F605 | 0605 | Output phase failure detection selection | 0:Deselect 1:At starting (only one time after power is turned on) 2:At starting (each time power is turned on) 3:During operation 4:At starting + during operation) 5:Output cut-off detection enabled | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F606 | 0606 | OL reduction starting frequency | 0.0~30.0Hz | 0.1/0.01 | 6.0 | Enabled | ●/● | ●/● | ● | ● | |
| F607 | 0607 | Motor 150%-overload time limit | 10~2400 sec. | 1/1 | 300 | Enabled | ●/● | ●/● | ● | ● | |
| F608 | 0608 | Input phase failure detection mode selection | 0:Deselect 1:Select | 1/1 | 1 | Disabled | ●/● | ●/● | ● | ● | |
| F609 | 0609 | Low current detection current hysteresis width | 1~20% | 1/1 | 10 | Enabled | ●/● | ●/● | ● | ● | |
| F610 | 0610 | Low current trip selection | 0:No trip, 1:Trip | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F611 | 0611 | Low current detection current | 0~100% | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F612 | 0612 | Low current detection time | 0~255 sec. | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |

[24] Protection functions [2/2]

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f Constant | User setting |
|-------|-------------------|--|---|--|-----------------|----------------------|----------------|----------------|------------|--------------|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F613 | 0613 | Selection of short circuit detection at starting | 0:Each time (standard pulse) 1:Only one time after power is turned on 2:Each time (short pulse) 3:Only one time after power is turn on (short pulse) | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F615 | 0615 | Overtorque trip selection | 0:No trip, 1:Trip | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F616 | 0616 | Overtorque detection level during power running | 0~250% | 1/0.01 | 150 | Enabled | ●/● | ●/● | ● | ● | |
| F617 | 0617 | Overtorque detection level during regenerative braking | 0~250% | 1/0.01 | 150 | Enabled | ●/● | ●/● | ● | ● | |
| F618 | 0618 | Overtorque detection time | 0.00~10.00 sec. | 0.01/0.01 | 0.50 | Enabled | ●/● | ●/● | ● | ● | |
| F619 | 0619 | Overtorque detection hysteresis | 0~100% | 1/0.01 | 10 | Enabled | ●/● | ●/● | ● | ● | |
| F620 | 0620 | Cooling fan control selection | 0:Auto, 1:Always ON | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F621 | 0621 | Cumulative operation time alarm setting | 0.1~999.9 (x100h) | 0.1/0.1 | 610.0 | Enabled | ●/● | ●/● | ● | ● | |
| F622 | 0622 | Abnormal speed detection time | 0.01~100.00 sec. | 0.01/0.01 | 0.01 | Enabled | -/● | ●/● | ● | ● | |
| F623 | 0623 | Overspeed detection frequency upper band | 0.0:Disabled, 0.1~30.0Hz | 0.1/0.01 | 0.0 | Enabled | -/● | -/- | - | - | |
| F624 | 0624 | Overspeed detection frequency lower band | 0.0:Disabled, 0.1~30.0Hz | 0.1/0.01 | 0.0 | Enabled | -/● | -/- | - | - | |
| F625 | 0625 | Undervoltage detection level | 50~79%, 80%: (auto mode) | 1/1 | 80 | Disabled | ●/● | ●/● | ● | ● | |
| F626 | 0626 | Overvoltage limit operation level | 100~150% | 1/1 | *1 | Disabled | ●/● | - | ● | ● | |
| F627 | 0627 | Undervoltage trip selection | 0:Deselect, 1:Select | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F628 | 0628 | Undervoltage (trip alarm) detection time | 0.01~10.00 sec. | 0.01/0.01 | 0.03 | Disabled | ●/● | ●/● | ● | ● | |
| F629 | 0629 | Regenerative power ride-through control level | 55~100% | 1/1 | 75 | Disabled | ●/● | ●/● | ● | ● | |
| F630 | 0630 | Braking answer waiting time | 0.0:Disabled, 0.1~10.0 sec. | 0.1/0.1 | 0.0 | Enabled | ●/● | ●/● | ● | ● | |
| F631 | 0631 | Inverter overload selection | 0:Standard (150%·60 sec.) 1:Estimation of temperature | 1/1 | 0 | Disabled | - | - | - | - | |
| F633 | 0633 | VI/II analog input wire breakage detection level | 0:None 1~100% | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F634 | 0634 | Annual average ambient temperature (calculation for part replacement alarms) | 1:-10~+10°C 2:+11~+20°C 3:+21~+30°C 4:+31~+40°C 5:+41~+50°C 6:+51~+60°C | 1/1 | 3 | Enabled | ●/● | ●/● | ● | ● | |
| F635 | 0635 | Rush current suppression relay activation time | 0.0~2.5 sec. | 0.1/0.1 | 0.0 | Disabled | ●/● | ●/● | ● | ● | |
| F637 | 0637 | PTC1 thermal selection | 0:Deselect 1:Select | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F638 | 0638 | PTC2 thermal selection | 0:Select 1:Deselect | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F639 | 0639 | Braking resistance overload time (10 times of rated torque) | 0.1~600.0 sec. | 0.1/0.1 | 5.0 | Disabled | ●/● | ●/● | ● | ● | |
| F640 | 0640 | Step-out detection current level (for PM motors) | 10~150 | 1/1 | 100 | Disabled | - | - | - | - | |
| F641 | 0641 | Step-out detection time (for PM motors) | 0.0:Not detect 0.1~25.0 | 0.1/0.1 | 0.0 | Disabled | - | - | - | - | |

*1: Default values vary depending on the capacity.

[25] Override

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f Constant | User setting |
|-------|-------------------|--|--|--|-----------------|----------------------|----------------|----------------|------------|--------------|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F660 | 0660 | Override addition input selection | 0:Disabled 1:VI/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:Operation panel input enabled (including LED/LCD option input) 5:Communication panel RS485 input enabled 6:Communication internal RS485 input enabled 7:Communications option input enabled 8:Optional A11 (differential current input) 9:Optional A12 (voltage/current input) 10:UP/DOWN frequency 11:RP pulse input 12:High-speed pulse input 13:Binary/BCD input | 1/1 | 0 | Enabled | ●/● | - | ● | ● | |
| F661 | 0661 | Override multiplication input selection | 0:Disabled, 1:VI/II, 2:RR/S4, 3:RX, 4:f729, 5:Optional A11 | 1/1 | 0 | Enabled | ●/● | - | ● | ● | |
| F669 | 0669 | Logic output/pulse train output selection (OUT1) | 0:Logic output 1:Pulse output | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F670 | 0670 | AM terminal meter selection | 0~64 *1 | 1/1 | 2 | Enabled | ●/● | ●/● | ● | ● | |

*1: This parameter moves to a fundamental parameter.

*1: ⇒ For the adjustment range.

[26] Meter output

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f Constant | User setting |
|-------|-------------------|---------------------------------------|---|--|-----------------|----------------------|----------------|----------------|------------|--------------|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F671 | 0671 | AM terminal meter adjustment | - | 1/1 | - | Enabled | ●/● | ●/● | ● | ● | |
| F672 | 0672 | MON1 terminal meter selection | 0~64 *1 | 1/1 | 4 | Enabled | ●/● | ●/● | ● | ● | |
| F673 | 0673 | MON1 terminal meter adjustment | - | 1/1 | - | Enabled | ●/● | ●/● | ● | ● | |
| F674 | 0674 | MON2 terminal meter selection | 0~64 *1 | 1/1 | 5 | Enabled | ●/● | ●/● | ● | ● | |
| F675 | 0675 | MON2 terminal meter adjustment | - | 1/1 | - | Enabled | ●/● | ●/● | ● | ● | |
| F676 | 0676 | Pulse output function selection | 0~49 *1 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F677 | 0677 | Selection of number of pulses | 1.00~43.20kHz | 0.01/0.01 | 3.84 | Enabled | ●/● | ●/● | ● | ● | |
| F678 | 0678 | Constant at the time of filtering | 4msec, 8msec~100msec | 1/1 | 64 | Disabled | ●/● | ●/● | ● | ● | |
| F681 | 0681 | FM voltage/current output switching | 0:Voltage 0~10V output 1:Current 0~20mA output | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F682 | 0682 | FM output gradient characteristic | 0:Negative gradient (descending) 1:Positive gradient (ascending) | 1/1 | 1 | Enabled | ●/● | ●/● | ● | ● | |
| F683 | 0683 | FM bias adjustment | -10.0~100.0% | 0.1/0.1 | 0.0 | Enabled | ●/● | ●/● | ● | ● | |
| F684 | 0684 | FM output filter | 0:No filter 1:Filter approx. 10ms 2:Filter approx. 15ms 3:Filter approx. 30ms 4:Filter approx. 60ms | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F685 | 0685 | AM output gradient characteristic | 0:Negative inclination (downward slope) 1:Positive inclination (upward slope) | 1/1 | 1 | Enabled | ●/● | ●/● | ● | ● | |
| F686 | 0686 | AM bias adjustment | -10.0~100.0% | 0.1/0.1 | 0.0 | Enabled | ●/● | ●/● | ● | ● | |
| F688 | 0688 | MON1 voltage/current output switching | 0:Voltage -10~10V output 1:Voltage 0~10V output 2:Current 0~20mA output | 1/1 | 0.1 | Disabled | ●/● | ●/● | ● | ● | |
| F689 | 0689 | MON1 output gradient characteristic | 0:Negative inclination (downward slope) 1:Positive inclination (upward slope) | 1/1 | 1 | Enabled | ●/● | ●/● | ● | ● | |
| F690 | 0690 | MON1 bias adjustment | -10.0~100.0% | 0.1/0.1 | 0.0 | Enabled | ●/● | ●/● | ● | ● | |
| F691 | 0691 | MON2 voltage/current output switching | 0:Voltage -10~10V output 1:Voltage 0~10V output 2:Current 0~20mA output | 1/1 | 0.1 | Disabled | ●/● | ●/● | ● | ● | |
| F692 | 0692 | MON2 output gradient characteristic | 0:Negative inclination (downward slope) 1:Positive inclination (upward slope) | 1/1 | 1 | Enabled | ●/● | ●/● | ● | ● | |
| F693 | 0693 | MON2 bias adjustment | -10.0~100.0% | 0.1/0.1 | 0.0 | Enabled | ●/● | ●/● | ● | ● | |

■ This parameter moves to a fundamental parameter.

*1: ⇒ For the adjustment range.

[27] Operation panel parameters [1/2]

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f Constant | User setting |
|-------|-------------------|---|--|--|-----------------|----------------------|----------------|----------------|------------|--------------|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F700 | 0700 | Parameter write protect selection | 0:Permit, 1:Prohibit | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F701 | 0701 | Current/voltage unit selection | 0:%, 1:A (ampere)/V (volt) | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F702 | 0702 | Frequency free unit display magnification | 0.00:OFF, 0.01~200.0 | 0.01/0.01 | 0.00 | Enabled | ●/● | ●/● | ● | ● | |
| F703 | 0703 | Frequency free unit conversion selection | 0:All frequencies display free unit conversion 1:PID frequencies free unit conversion | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F705 | 0705 | Free unit display gradient characteristic | 0:Negative inclination (downward slope) 1:Positive inclination (upward slope) | 1/1 | 1 | Enabled | ●/● | ●/● | ● | ● | |
| F706 | 0706 | Free unit display bias | 0.00~F Hz | 0.01/0.01 | 0.00 | Enabled | ●/● | ●/● | ● | ● | |
| F707 | 0707 | Changing step selection 1 | 0.00:Disabled, 0.01~F Hz | 0.01/0.01 | 0.00 | Enabled | ●/● | ●/● | ● | ● | |
| F708 | 0708 | Changing step selection 2 | 0:Disabled, 1~255 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F709 | 0709 | Status monitor hold output | 0:Default, 1:Peak hold, 2:Minimum hold | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F710 | 0710 | Standard monitor display selection | 0~70 *1 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F711 | 0711 | Status monitor 1 display selection | Ditto | 1/1 | 1 | Enabled | ●/● | ●/● | ● | ● | |
| F712 | 0712 | Status monitor 2 display selection | Ditto | 1/1 | 2 | Enabled | ●/● | ●/● | ● | ● | |
| F713 | 0713 | Status monitor 3 display selection | Ditto | 1/1 | 3 | Enabled | ●/● | ●/● | ● | ● | |
| F714 | 0714 | Status monitor 4 display selection | Ditto | 1/1 | 4 | Enabled | ●/● | ●/● | ● | ● | |
| F715 | 0715 | Status monitor 5 display selection | Ditto | 1/1 | 8 | Enabled | ●/● | ●/● | ● | ● | |
| F716 | 0716 | Status monitor 6 display selection | Ditto | 1/1 | 16 | Enabled | ●/● | ●/● | ● | ● | |
| F717 | 0717 | Status monitor 7 display selection | Ditto | 1/1 | 15 | Enabled | ●/● | ●/● | ● | ● | |
| F718 | 0718 | Status monitor 8 display selection | Ditto | 1/1 | 14 | Enabled | ●/● | ●/● | ● | ● | |
| F719 | 0719 | Operation command clear selection when standby terminal (ST) is OFF | 0:Clear operation command, 1:Retain operation command | 1/1 | 1 | Enabled | ●/● | ●/● | ● | ● | |
| F721 | 0721 | Operation panel stop pattern | 0:Deceleration stop, 1:Coasting | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F725 | 0725 | Operation panel torque command | -250~250% | 1/0.01 | 0 | Enabled | - | ●/● | - | - | |
| F727 | 0727 | Operation panel tension torque bias | -250~250% | 1/0.01 | 0 | Enabled | - | ●/● | - | - | |
| F728 | 0728 | Operation panel load sharing gain | 0~250% | 1/0.01 | 100 | Enabled | - | ●/● | - | - | |
| F729 | 0729 | Operation panel override multiplication gain | -100~100% | 1/0.01 | 0 | Enabled | ●/● | - | ● | ● | |
| F730 | 0730 | Operation panel frequency setting prohibition selection | 0:Permit 1:Prohibit | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |

■ This parameter moves to a fundamental parameter. *1: ⇒ For the adjustment range.

[27] Operation panel parameters [2/2]

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f Constant | User setting |
|-------|-------------------|--|---|--|-----------------|----------------------|----------------|----------------|------------|--------------|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F 734 | 0734 | Operation panel emergency stop operation prohibition selection | 0:Permit 1:Prohibit | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F 735 | 0735 | Operation panel reset operation prohibition selection | 0:Permit 1:Prohibit | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F 736 | 0736 | CMOD/FMOD change prohibition selection | 0:Permit 1:Prohibit | 1/1 | 1 | Enabled | ●/● | ●/● | ● | ● | |
| F 737 | 0737 | All key operation prohibition | 0:Permit 1:Prohibit | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F 740 | 0740 | Trace selection | 0:Deselect, 1:At tripping, 2:At triggering | 1/1 | 1 | Enabled | ●/● | ●/● | ● | ● | |
| F 741 | 0741 | Trace cycle | 0:4ms, 1:20ms, 2:100ms, 3:1s, 4:10s | 1/1 | 2 | Enabled | ●/● | ●/● | ● | ● | |
| F 742 | 0742 | Trace data 1 | 0~49 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F 743 | 0743 | Trace data 2 | 0~49 | 1/1 | 1 | Enabled | ●/● | ●/● | ● | ● | |
| F 744 | 0744 | Trace data 3 | 0~49 | 1/1 | 2 | Enabled | ●/● | ●/● | ● | ● | |
| F 745 | 0745 | Trace data 4 | 0~49 | 1/1 | 3 | Enabled | ●/● | ●/● | ● | ● | |
| F 750 | 0750 | EASY key function | 0:Quick mode/standard setting mode switching function 1:Shortcut key:2 Pressing for 2 sec. to record the parameter, pressing normally to jump to recorded parameter (first jump to the 1st history) 2:Operation panel/remote key:Operation panel by ON 3:Monitor peak minimum hold trigger | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F 751 | 0751 | EASY (selection) parameter 1 | 0~999 *1 | 1/1 | 40 (AU4) | Disabled | ●/● | ●/● | ● | ● | |
| F 752 | 0752 | EASY (selection) parameter 2 | 0~999 *1 | 1/1 | 15 (pt) | Disabled | ●/● | ●/● | ● | ● | |
| F 753 | 0753 | EASY (selection) parameter 3 | 0~999 *1 | 1/1 | 11 (FH) | Disabled | ●/● | ●/● | ● | ● | |
| F 754 | 0754 | EASY (selection) parameter 4 | 0~999 *1 | 1/1 | 9 (ACC) | Disabled | ●/● | ●/● | ● | ● | |
| F 755 | 0755 | EASY (selection) parameter 5 | 0~999 *1 | 1/1 | 10 (dEC) | Disabled | ●/● | ●/● | ● | ● | |
| F 756 | 0756 | EASY (selection) parameter 6 | 0~999 *1 | 1/1 | 600 (tHr) | Disabled | ●/● | ●/● | ● | ● | |
| F 757 | 0757 | EASY (selection) parameter 7 | 0~999 *1 | 1/1 | 6 (FM) | Disabled | ●/● | ●/● | ● | ● | |
| F 758 | 0758 | EASY (selection) parameter 8 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 759 | 0759 | EASY (selection) parameter 9 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 760 | 0760 | EASY (selection) parameter 10 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 761 | 0761 | EASY (selection) parameter 11 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 762 | 0762 | EASY (selection) parameter 12 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 763 | 0763 | EASY (selection) parameter 13 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 764 | 0764 | EASY (selection) parameter 14 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 765 | 0765 | EASY (selection) parameter 15 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 766 | 0766 | EASY (selection) parameter 16 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 767 | 0767 | EASY (selection) parameter 17 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 768 | 0768 | EASY (selection) parameter 18 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 769 | 0769 | EASY (selection) parameter 19 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 770 | 0770 | EASY (selection) parameter 20 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 771 | 0771 | EASY (selection) parameter 21 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 772 | 0772 | EASY (selection) parameter 22 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 773 | 0773 | EASY (selection) parameter 23 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 774 | 0774 | EASY (selection) parameter 24 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 775 | 0775 | EASY (selection) parameter 25 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 776 | 0776 | EASY (selection) parameter 26 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 777 | 0777 | EASY (selection) parameter 27 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 778 | 0778 | EASY (selection) parameter 28 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 779 | 0779 | EASY (selection) parameter 29 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 780 | 0780 | EASY (selection) parameter 30 | 0~999 *1 | 1/1 | 999 | Disabled | ●/● | ●/● | ● | ● | |
| F 782 | 0782 | EASY (selection) parameter 32 | 0~999 *1 | 1/1 | 50 (PSEL) | Disabled | ●/● | ●/● | ● | ● | |

*1: The communication number of the parameter is used for this setting.

[28] Communication function [1/2]

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f Constant | User setting |
|-------|-------------------|---|---|--|-----------------|----------------------|----------------|----------------|------------|--------------|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F800 | 0800 | Baud rate (2-wire RS485) | 0:9600 bps, 1:19200 bps, 2:38400 bps | 1/1 | 1 | Enabled | ●/● | ●/● | ● | ● | |
| F801 | 0801 | Parity (common to 2-wire RS485 and 4-wire RS485) | 0:Non parity, 1:Even parity, 2:Odd parity | 1/1 | 1 | Enabled | ●/● | ●/● | ● | ● | |
| F802 | 0802 | Inverter number (common) | 0~247 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F803 | 0803 | Communications time-out time (common to 2-wire RS485 and 4-wire RS485) | 0:OFF, 1~100 sec. | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F804 | 0804 | Communications time-out action (common to 2-wire RS485 and 4-wire RS485) | 0~8 | 1/1 | 8 | Enabled | ●/● | ●/● | ● | ● | |
| F805 | 0805 | Send waiting time (2-wire RS485) | 0.00:Default, 0.01~2.00 sec. | 0.01/0.01 | 0.00 | Enabled | ●/● | ●/● | ● | ● | |
| F806 | 0806 | Inverter-to-inverter communications (common to 2-wire RS485 and 4-wire RS485) | 0:Slave (issues a 0Hz command if something goes wrong with the master) 1:Slave (continues operation if something goes wrong with the master) 2:Slave (trips for emergency stop if something goes wrong with the master) 3:Master (sends a frequency command) 4:Master (sends an output frequency) 5:Master (sends a torque command) 6:Master (sends an output torque command) | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F807 | 0807 | 2-wire RS485 protocol selection (TSB/MODBUS) | 0:TSB 1:MODBUS | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F810 | 0810 | Frequency point selection | 0:Disabled 1:2-wire RS485 2:4-wire RS485 3:Communication add option | 1/1 | 0 | Enabled | ●/● | - | ● | ● | |
| F811 | 0811 | Point 1 setting | 0~100% | 1/1 | 0 | Enabled *2 | ●/● | - | ● | ● | |
| F812 | 0812 | Point 1 frequency | 0.0~FH Hz | 0.1/0.01 | 0.0 | Enabled *2 | ●/● | - | ● | ● | |
| F813 | 0813 | Point 2 setting | 0~100% | 1/1 | 100 | Enabled *2 | ●/● | - | ● | ● | |
| F814 | 0814 | Point 2 frequency | 0.0~FH Hz | 0.1/0.01 | *1 | Enabled *2 | ●/● | - | ● | ● | |
| F820 | 0820 | Communication speed (4-wire RS485) | 0:9600 bps, 1:19200 bps, 2:38400 bps | 1/1 | 1 | Enabled | ●/● | - | ● | ● | |
| F821 | 0821 | 4-wire RS485 wiring method | 0:2-wire type, 1:4-wire type | 1/1 | 1 | Enabled | ●/● | - | ● | ● | |
| F825 | 0825 | RS485 send waiting time | 0.00:Default, 0.01~2.00 sec. | 0.01/0.01 | 0.00 | Enabled | ●/● | ●/● | ● | ● | |

*1: Inverter with a model number ending with -WN: 60.0 -WP: 50.0

*2: Effective when a command value is sent by communication.

[28] Communication function [2/2]

Sensorless vector/vector with sensor (●:Effective, ○:Ineffective)

| Title | Communi- cation No. | Function | Adjustment range | Minimum setting unit (Panel/Communi- cation) | Default setting | Write during running | Vector control | | PM control | V/f Constant | User setting |
|-------|---------------------------|--|--|---|--------------------|-------------------------|------------------|-------------------|---------------|--------------|-----------------|
| | | | | | | | Speed control | Torque control | | | |
| F826 | 0826 | Inverter-to-inverter communication setting (4-wire RS485) | 0:Slave (issues a 0Hz command if something goes wrong with the master) 1:Slave (continues operation if something goes wrong with the master) 2:Slave (trips for emergency stop if something goes wrong with the master) 3:Master (sends a frequency command) 4:Master (sends an output frequency) 5:Master (sends a torque command) 6:Master (sends an output torque command) | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F829 | 0829 | 4-wire RS485 protocol selection (TSB/MODBUS) | 0:TSB 1:MODBUS | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F830 | 0830 | Communication option (DeviceNet/ PROFIBUS) setting 1 | 0~7 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F831 | 0831 | Communication option (DeviceNet/ PROFIBUS) setting 2 | 0000~FFFF | 1/1 | 0000 | Enabled | ●/● | ●/● | ● | ● | |
| F832 | 0832 | Communication option (DeviceNet/ PROFIBUS) setting 3 | 0000~FFFF | 1/1 | 0000 | Enabled | ●/● | ●/● | ● | ● | |
| F833 | 0833 | Communication option (DeviceNet/ PROFIBUS) setting 4 | 0000~FFFF | 1/1 | 0000 | Enabled | ●/● | ●/● | ● | ● | |
| F834 | 0834 | Communication option (DeviceNet/ PROFIBUS) setting 5 | 0000~FFFF | 1/1 | 0000 | Enabled | ●/● | ●/● | ● | ● | |
| F835 | 0835 | Communication option (DeviceNet/ PROFIBUS) setting 6 | 0000~FFFF | 1/1 | 0000 | Enabled | ●/● | ●/● | ● | ● | |
| F836 | 0836 | Communication option (DeviceNet/ PROFIBUS) setting 7 | 0000~FFFF | 1/1 | 0000 | Enabled | ●/● | ●/● | ● | ● | |
| F841 | 0841 | Communication option (DeviceNet/ PROFIBUS) setting 8 | 0000~FFFF | 1/1 | 0000 | Enabled | ●/● | ●/● | ● | ● | |
| F842 | 0842 | Communication option (DeviceNet/ PROFIBUS) setting 9 | 0000~FFFF | 1/1 | 0000 | Enabled | ●/● | ●/● | ● | ● | |
| F843 | 0843 | Communication option (DeviceNet/ PROFIBUS) setting 10 | 0000~FFFF | 1/1 | 0000 | Enabled | ●/● | ●/● | ● | ● | |
| F844 | 0844 | Communication option (DeviceNet/ PROFIBUS) setting 11 | 0000~FFFF | 1/1 | 0000 | Enabled | ●/● | ●/● | ● | ● | |
| F845 | 0845 | Communication option (DeviceNet/ PROFIBUS) setting 12 | 0000~FFFF | 1/1 | 0000 | Enabled | ●/● | ●/● | ● | ● | |
| F846 | 0846 | Communication option (DeviceNet/ PROFIBUS) setting 13 | 0000~FFFF | 1/1 | 0000 | Enabled | ●/● | ●/● | ● | ● | |
| F850 | 0850 | Disconnection detection extended time | 0.0~100.0 sec. | 0.1/0.1 | 0.0 | Enabled | ●/● | ●/● | ● | ● | |
| F851 | 0851 | Inverter operation at disconnection | 0:Inverter stop, communication command, frequency mode open (by CMOD, FMOD) 1:None (continued operation) 2:Deceleration stop 3:Coast stop 4:Network error (ErrB trip) 5:Preset speed operation (by F852 setting) | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F852 | 0852 | Preset speed operation selection | 0:None 1~15:Preset speed operation (by parameter setting) | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F853 | 0853 | Communication option station address monitor | 0~254 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F854 | 0854 | Communication option speed switch monitor Device Net/CC-Link | 0~255 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F870 | 0870 | Block write data 1 | 0:Deselect 1:Command information 1 2:Command information 2 3:Frequency command 4:Terminal board output data 5:Communication analog data | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F871 | 0871 | Block write data 2 | Ditto | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F875 | 0875 | Block read data 1 | 0:Deselect 1:Status information 2:Output frequency 3:Output current 4:Output voltage 5:Alarm information 6:PID feedback value 7:Input terminal board monitor 8:Output terminal board monitor 9:VI/II terminal board monitor 10:RR/S4 terminal board monitor 11:RX terminal board monitor 12:Input voltage (DC detection) 13:PG feedback frequency 14:Torque 15:MY monitor 1 16:MY monitor 2 17:MY monitor 3 18:MY monitor 4 19:Free notes | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F876 | 0876 | Block read data 2 | Ditto | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F877 | 0877 | Block read data 3 | Ditto | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F878 | 0878 | Block read data 4 | Ditto | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F879 | 0879 | Block read data 5 | Ditto | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F880 | 0880 | Free notes | 0~FFFF | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F899 | 0899 | Network option reset setting | 0:None 1:Reset option circuit board and inverter | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |

[29] My function [1/3]

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | V/f Constant | User setting |
|-------|-------------------|-----------------------------------|--|--|-----------------|----------------------|----------------|----------------|------------|--------------|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F900 | 0900 | Input function target 11 | Input terminal function number 0:Deselect 1:F terminal 2:R terminal 3:ST terminal 4:RES terminal 5:S1 terminal 6:S2 terminal 7:S3 terminal 8:RR/S4 terminal 9:L11 terminal 10:L12 terminal 11:L13 terminal 12:L14 terminal 13:L15 terminal 14:L16 terminal 15:L17 terminal 16:L18 terminal 17:B12 terminal 18:B13 terminal 19:B14 terminal 20:B15 terminal 21:Virtual input terminal 1 25~32:Internal terminal 1~8 918~934:MY function number 1000~1255:Output selection number 2000~2099:FD00~FD99 3000~3099:FE00~FE99 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F901 | 0901 | Input function command 11 | 0:NOP 1:ST (move) 2:STN 3:AND (logical product) 4:ANDN 5:OR (logical sum) 6:ORN 7:EQ (equal) 8:NE 9:GT 10:GE (greater than or equal to) 11:LT 12:LE (less than or equal to) 13:ASUB 14:FB_ON_DELAY 15:FB_OFF_DELAY 16:FB_COUNTER1 17:FB_COUNTER2 18:FB_PEEK_HOLD 19:SET 20:RESET | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F902 | 0902 | Input function target 12 | Same as F900 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F903 | 0903 | Input function command 12 | Same as F901 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F904 | 0904 | Input function target 13 | Same as F900 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F905 | 0905 | Output function assigned object 1 | Same as F900 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F906 | 0906 | Input function target 21 | Same as F900 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F907 | 0907 | Input function command 21 | Same as F901 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F908 | 0908 | Input function target 22 | Same as F900 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F909 | 0909 | Input function command 22 | Same as F901 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F910 | 0910 | Input function target 23 | Same as F900 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F911 | 0911 | Output function assigned object 2 | Same as F900 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F912 | 0912 | Input function target 31 | Same as F900 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F913 | 0913 | Input function command 31 | Same as F901 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F914 | 0914 | Input function target 32 | Same as F900 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |

[29] My function [2/3]

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | | User setting |
|-------|-------------------|------------------------------------|---|--|-----------------|----------------------|----------------|----------------|------------|--------------|
| | | | | | | | Speed control | Torque control | PM control | |
| F915 | 0915 | Input function command 32 | Same as F901 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● |
| F916 | 0916 | Input function target 33 | Same as F900 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● |
| F917 | 0917 | Output function assigned object 3 | Same as F900 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● |
| F918 | 0918 | My output percent data 1 | 0.00~200.0% | 0.01/0.01 | 0.00 | Enabled | ●/● | ●/● | ● | ● |
| F919 | 0919 | My output percent data 2 | 0.00~200.0% | 0.01/0.01 | 0.00 | Enabled | ●/● | ●/● | ● | ● |
| F920 | 0920 | My output percent data 3 | 0.00~200.0% | 0.01/0.01 | 0.00 | Enabled | ●/● | ●/● | ● | ● |
| F921 | 0921 | My output percent data 4 | 0.00~200.0% | 0.01/0.01 | 0.00 | Enabled | ●/● | ●/● | ● | ● |
| F922 | 0922 | My output percent data 5 | 0.00~200.0% | 0.01/0.01 | 0.00 | Enabled | ●/● | ●/● | ● | ● |
| F923 | 0923 | My output frequency data 1 | 0.0~500.0Hz | 0.1/0.1 | 0.0 | Enabled | ●/● | ●/● | ● | ● |
| F924 | 0924 | My output frequency data 2 | 0.0~500.0Hz | 0.1/0.1 | 0.0 | Enabled | ●/● | ●/● | ● | ● |
| F925 | 0925 | My output frequency data 3 | 0.0~500.0Hz | 0.1/0.1 | 0.0 | Enabled | ●/● | ●/● | ● | ● |
| F926 | 0926 | My output frequency data 4 | 0.0~500.0Hz | 0.1/0.1 | 0.0 | Enabled | ●/● | ●/● | ● | ● |
| F927 | 0927 | My output frequency data 5 | 0.0~500.0Hz | 0.1/0.1 | 0.0 | Enabled | ●/● | ●/● | ● | ● |
| F928 | 0928 | My output time data 1 | 0.01~600.0sec | 0.01/0.01 | 0.01 | Enabled | ●/● | ●/● | ● | ● |
| F929 | 0929 | My output time data 2 | 0.01~600.0sec | 0.01/0.01 | 0.01 | Enabled | ●/● | ●/● | ● | ● |
| F930 | 0930 | My output time data 3 | 0.01~600.0sec | 0.01/0.01 | 0.01 | Enabled | ●/● | ●/● | ● | ● |
| F931 | 0931 | My output time data 4 | 0.01~600.0sec | 0.01/0.01 | 0.01 | Enabled | ●/● | ●/● | ● | ● |
| F932 | 0932 | My output time data 5 | 0.01~600.0sec | 0.01/0.01 | 0.01 | Enabled | ●/● | ●/● | ● | ● |
| F933 | 0933 | No. of times of My output data 1 | 0~9999 times | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F934 | 0934 | No. of times of My output data 2 | 0~9999 times | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F935 | 0935 | Input function target 41 | Same as F900 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F936 | 0936 | Input function command 41 | Same as F901 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F937 | 0937 | Input function target 42 | Same as F900 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F938 | 0938 | Input function command 42 | Same as F901 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F939 | 0939 | Input function target 43 | Same as F900 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F940 | 0940 | Output function assigned object 4 | Same as F900 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F941 | 0941 | Input function target 51 | Same as F900 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F942 | 0942 | Input function command 51 | Same as F901 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F943 | 0943 | Input function target 52 | Same as F900 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F944 | 0944 | Input function command 52 | Same as F901 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F945 | 0945 | Input function target 53 | Same as F900 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F946 | 0946 | Output function assigned object 5 | Same as F900 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F947 | 0947 | Output function target 31 | Same as F900 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F948 | 0948 | Input function command 61 | Same as F901 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F949 | 0949 | Input function target 62 | Same as F900 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F950 | 0950 | Input function command 62 | Same as F901 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F951 | 0951 | Input function target 63 | Same as F900 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F952 | 0952 | Output function assigned object 6 | Same as F900 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F953 | 0953 | Input function target 71 | Same as F900 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F954 | 0954 | Input function command 71 | Same as F901 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F955 | 0955 | Input function target 72 | Same as F900 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F956 | 0956 | Input function command 72 | Same as F901 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F957 | 0957 | Input function target 73 | Same as F900 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F958 | 0958 | Output function assigned object 7 | Same as F900 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F959 | 0959 | Analog input function target 11 | 0:Deselect 1:VI/II 2:RR/S4 3:RX 4:Optional AI1+, Optional AI1- 5:Optional AI2 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● |
| F961 | 0961 | Analog function assigned object 11 | 0:Disabled 1:Acceleration 2:Upper limit frequency (UL) 3:Acceleration multiplication factor 4:Deceleration multiplication factor 5:Manual torque boost (ub) 6:OC stall (F60!) 7:Thermal protection (tHr) 8:Speed loop P gain (F450) 9:Drifting gain (F320) 10:PID P gain (F362) | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● |

[29] My function [3/3]

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

| Title | Communication No. | Function | Adjustment range | Minimum setting unit (Panel/Communication) | Default setting | Write during running | Vector control | | PM control | Vf/Constant | User setting |
|-------|-------------------|------------------------------------|--|--|-----------------|----------------------|----------------|----------------|------------|-------------|--------------|
| | | | | | | | Speed control | Torque control | | | |
| F962 | 0962 | Analog input function target 21 | 0:Deselect 1:Optional VI/II 2:RR/S4 3:RX 4:Optional AI1+, Optional AI1- 5:AI2 | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F964 | 0964 | Analog function assigned object 21 | 0~10 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F965 | 0965 | Monitor output function target 11 | 2000~2099:FD00~FD99 3000~3099:FE00~FE99 | 1/1 | 2000 | Enabled | ●/● | ●/● | ● | ● | |
| F966 | 0966 | Monitor output function command 11 | 0:Normal monitor, 1:Max. value, 2:Min. value | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F967 | 0967 | Monitor output function target 21 | 2000~2099:FD00~FD99 3000~3099:FE00~FE99 | 1/1 | 2000 | Enabled | ●/● | ●/● | ● | ● | |
| F968 | 0968 | Monitor output function command 21 | 0:Normal monitor, 1:Max. value, 2:Min. value | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F969 | 0969 | Monitor output function target 31 | 2000~2099:FD00~FD99 3000~3099:FE00~FE99 | 1/1 | 2000 | Enabled | ●/● | ●/● | ● | ● | |
| F970 | 0970 | Monitor output function command 31 | 0:Normal monitor, 1:Max. value, 2:Min. value | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F971 | 0971 | Monitor output function target 41 | 2000~2099:FD00~FD99 3000~3099:FE00~FE99 | 1/1 | 2000 | Enabled | ●/● | ●/● | ● | ● | |
| F972 | 0972 | Monitor output function command 41 | 0:Normal monitor, 1:Max. value, 2:Min. value | 1/1 | 0 | Enabled | ●/● | ●/● | ● | ● | |
| F973 | 0973 | Virtual input terminal selection 1 | 0~135 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F974 | 0974 | Virtual input terminal selection 2 | 0~135 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F975 | 0975 | Virtual input terminal selection 3 | 0~135 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F976 | 0976 | Virtual input terminal selection 4 | 0~135 | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F977 | 0977 | My function selection | 0:Deselect 1:My function + permission signal 2: My function always ON | 1/1 | 0 | Disabled | ●/● | ●/● | ● | ● | |
| F980 | 0980 | Traverse selection | 0: Disabled 1: Enabled | 1/1 | 0 | Disabled | ●/● | - | ● | ● | |
| F981 | 0981 | Traverse acceleration time | 0.1~120.0 sec. | 0.1/0.1 | 25.0 | Enabled | ●/● | - | ● | ● | |
| F982 | 0982 | Traverse deceleration time | 0.1~120.0 sec. | 0.1/0.1 | 25.0 | Enabled | ●/● | - | ● | ● | |
| F983 | 0983 | Traverse step | 0.0~25.0% | 0.1/0.1 | 10.0 | Enabled | ●/● | - | ● | ● | |
| F984 | 0984 | Traverse jump step | 0.0~50.0% | 0.1/0.1 | 10.0 | Enabled | ●/● | - | ● | ● | |