

TOSVERT VF-MB1

**Parameter List
for up to CPU version 100/102**

VF-MB1 Parameter List for up to CPU version 100 / 102

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.

You can confirm software version by the additional code on the nameplate and packing label

Additional code for V102 : (1)

-Terminal stand use state

	Terminal Name	Use state
Main terminal block	PA/+	
	PB	
	PBe	
	PC/-	
	R/L1	
	S/L2	
	T/L3	
	U/T1	
	V/T2	
	W/T3	
	E/G	
Control terminal block	FLA	
	FLB	
	FLC	
	RY	
	RC	
	CC	
	VIA	
	VIB	
	VIC	
	PP	
	FM	
	F	
	R	
	RES	
	CC	
	S1	
	S2	
	S3	
	CC	
	OUT	
NO		
P24		
+SU		
STO		
Setting of slide switch	SW1	SOURCE / PLC / SINK
	SW2	LOGIC / PTC

1 Frequency setting parameter

Title	Function	Unit	Minimum setting Unit Panel / Communication	Adjustment range	Default setting	User setting	Reference
<i>Ff</i>	Operation frequency of operation panel	Hz	0.1/0.01	<i>LL - UL</i>	0.0		3.2.2

2 Basic parameters

•Five navigation functions

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>RUH</i>	-	History function	-	-	Displays parameters in groups of five in the reverse order to that in which their settings were changed. * (Possible to edit)	-		4.3 5.1
<i>RUF</i>	0093	Guidance function	-	-	0: - 1: - 2: Preset speed guidance 3: Analog signal operation guidance 4: Motor 1 & 2 switching operation guidance 5: Motor constant setting guidance	0		4.3 5.2
<i>RUL</i>	0094	Overload characteristic selection	-	-	0: - 1: Constant torque characteristic (150%-60s) 2: Variable torque characteristic (120%-60s)	0		3.5 5.3 6.14
<i>RU1</i>	0000	Automatic acceleration / deceleration	-	-	0: Disabled (manual setting) 1: Automatic 2: Automatic (only at acceleration)	0		5.4
<i>RU2</i>	0001	Torque boost setting macro function	-	-	0: Disabled 1: Automatic torque boost + auto-tuning 2: Vector control + auto-tuning 3: Energy saving + auto-tuning	0		5.5
<i>RUOd</i>	0003	Command mode selection	-	-	0: Terminal board 1: Panel keypad (including remote keypad) 2: RS485 communication 3: CANopen communication 4: Communication option	1		3.2 5.6 7.3

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>FNDd</i>	0004	Frequency setting mode selection 1	-	-	0: Setting dial 1 (save even if power is off) 1: Terminal board VIA 2: Terminal board VIB 3: Setting dial 2 (press in center to save) 4: RS485 communication 5: UP/DOWN from external logic input 6: CANopen communication 7: Communication option 8: Terminal board VIC 9, 10: - 11: Pulse train input	0		3.2 5.6 6.3.4 6.6.1 7.3
<i>FNSL</i>	0005	Meter selection	-	-	0: Output frequency 1: Output current 2: Frequency reference 3: Input voltage (DC detection) 4: Output voltage (command value) 5: Input power 6: Output power 7: Torque 8: - 9: Motor cumulative load factor 10: Inverter cumulative load factor 11: PBR (Braking resistor) cumulative load factor 12: Frequency setting value (after compensation) 13: VIA input value 14: VIB input value 15: Fixed output 1 (output current 100% equivalent) 16: Fixed output 2 (output current 50% equivalent) 17: Fixed output 3 (other than the output current) 18: RS485 communication data 19: For adjustments (<i>F_n</i> set value is displayed) 20: VIC input value 21: Pulse train input value 22: - 23: PID feedback value 24: Integral input power 25: Integral output power	0		3.4 5.7

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>FN</i>	0006	Meter adjustment gain	-	-	-	-		3.4 5.7
<i>Fr</i>	0008	Forward/reverse run selection (Panel keypad)	-	-	0: Forward run 1: Reverse run 2: Forward run (F/R switching on remote keypad) 3: Reverse run (F/R switching on remote keypad)	0		5.8
<i>ACC</i>	0009	Acceleration time 1	s	0.1/0.1	0.0-3600 (360.0)*3	10.0		5.4
<i>DEC</i>	0010	Deceleration time 1	s	0.1/0.1	0.0-3600 (360.0)*3	10.0		
<i>FH</i>	0011	Maximum frequency	Hz	0.1/0.01	30.0-500.0	80.0		5.9
<i>UL</i>	0012	Upper limit frequency	Hz	0.1/0.01	0.5- <i>FH</i>	*1		5.10
<i>LL</i>	0013	Lower limit frequency	Hz	0.1/0.01	0.0- <i>UL</i>	0.0		
<i>uL</i>	0014	Base frequency 1	Hz	0.1/0.01	20.0-500.0	*1		5.11
<i>uLv</i>	0409	Base frequency voltage 1	V	1/0.1	50-330 (240V class) 50-660 (500V class)	*1		5.11 6.15.6
<i>Pt</i>	0015	V/F control mode selection	-	-	0: V/F constant 1: Variable torque 2: Automatic torque boost control 3: Vector control 4: Energy-saving 5: Dynamic energy-saving (For fan and pump) 6: PM motor control 7: V/F 5-point setting 8: -	*1		5.12
<i>ub</i>	0016	Torque boost value 1	%	0.1/0.1	0.0-30.0	*2		5.13
<i>tHr</i>	0600	Motor electronic-thermal protection level 1	% (A)	1/1	10-100	100		3.5 5.14 6.24.1

*1: Default values vary depending on the capacity. See the table of last page

*2: Depends upon the setup menu settings. See the table of last page.

*3: These parameters can be changed to 0.01s unit by setting *F519=1*.

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference																															
<i>OLn</i>	0017	Electronic-thermal protection characteristic selection	-	-	<table border="1"> <thead> <tr> <th>Set</th> <th></th> <th>OL protect</th> <th>OL stall</th> </tr> </thead> <tbody> <tr> <td>0</td> <td rowspan="3">Standard motor</td> <td>valid</td> <td>invalid</td> </tr> <tr> <td>1</td> <td>valid</td> <td>valid</td> </tr> <tr> <td>2</td> <td>invalid</td> <td>invalid</td> </tr> <tr> <td>3</td> <td rowspan="4">VF motor</td> <td>invalid</td> <td>valid</td> </tr> <tr> <td>4</td> <td>valid</td> <td>invalid</td> </tr> <tr> <td>5</td> <td>valid</td> <td>valid</td> </tr> <tr> <td>6</td> <td>invalid</td> <td>invalid</td> </tr> <tr> <td>7</td> <td></td> <td>invalid</td> <td>valid</td> </tr> </tbody> </table>	Set		OL protect	OL stall	0	Standard motor	valid	invalid	1	valid	valid	2	invalid	invalid	3	VF motor	invalid	valid	4	valid	invalid	5	valid	valid	6	invalid	invalid	7		invalid	valid	0		3.5 5.14
Set		OL protect	OL stall																																				
0	Standard motor	valid	invalid																																				
1		valid	valid																																				
2		invalid	invalid																																				
3	VF motor	invalid	valid																																				
4		valid	invalid																																				
5		valid	valid																																				
6		invalid	invalid																																				
7		invalid	valid																																				
<i>Fr 1</i>	0018	Preset-speed frequency 1	Hz	0.1/0.01	<i>LL-UL</i>	0.0		3.6 5.15																															
<i>Fr 2</i>	0019	Preset-speed frequency 2	Hz	0.1/0.01	<i>LL-UL</i>	0.0																																	
<i>Fr 3</i>	0020	Preset-speed frequency 3	Hz	0.1/0.01	<i>LL-UL</i>	0.0																																	
<i>Fr 4</i>	0021	Preset-speed frequency 4	Hz	0.1/0.01	<i>LL-UL</i>	0.0																																	
<i>Fr 5</i>	0022	Preset-speed frequency 5	Hz	0.1/0.01	<i>LL-UL</i>	0.0																																	
<i>Fr 6</i>	0023	Preset-speed frequency 6	Hz	0.1/0.01	<i>LL-UL</i>	0.0																																	
<i>Fr 7</i>	0024	Preset-speed frequency 7	Hz	0.1/0.01	<i>LL-UL</i>	0.0																																	
<i>FPId</i>	0025	Process input value of PID control	Hz	0.1/0.01	<i>F368-F367</i>	0.0	-	5.16 6.20																															
<i>tYP</i>	0007	Default setting	-	-	0: - 1: 50Hz default setting 2: 60Hz default setting 3: Default setting 1 (Initialization) 4: Trip record clear 5: Cumulative operation time clear 6: Initialization of type information 7: Save user setting parameters 8: Load user setting parameters 9: Cumulative fan operation time record clears 10, 11: - 12: Number of starting clear 13: Default setting 2 (Complete initialization)	0		3.1 4.3 4.3.2 5.17																															

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference	
<i>SEt</i>	0099	Checking the region setting *2	-	-	0: Start setup menu 1: Japan (read only) 2: North America (read only) 3: Asia (read only) 4: Europe (read only)	*1		3.1 4.4 5.18	
<i>PSEL</i>	0050	Registered parameters display selection	-	-	0: Standard setting mode at power on 1: Easy setting mode at power on 2: Easy setting mode only	0		4.5 5.19	
<i>F1--</i>	-	Extended parameter starting at 100	-	-	-	-	-	4.2.2	
<i>F2--</i>	-	Extended parameter starting at 200	-	-	-	-	-		
<i>F3--</i>	-	Extended parameter starting at 300	-	-	-	-	-		
<i>F4--</i>	-	Extended parameter starting at 400	-	-	-	-	-		
<i>F5--</i>	-	Extended parameter starting at 500	-	-	-	-	-		
<i>F6--</i>	-	Extended parameter starting at 600	-	-	-	-	-		
<i>F7--</i>	-	Extended parameter starting at 700	-	-	-	-	-		
<i>F8--</i>	-	Extended parameter starting at 800	-	-	-	-	-		
<i>F9--</i>	-	Extended parameter starting at 900	-	-	-	-	-		
<i>A---</i>	-	Extended parameter starting at A	-	-	-	-	-		
<i>C---</i>	-	Extended parameter starting at C	-	-	-	-	-		
<i>GRU</i>	-	Automatic edit function	-	-	-	-	-		4.3.1 5.20

*1: Depends upon the setup menu settings. See the table of last page.

*2: the region is set to 1 to 4 when parameter *SEt* is read.
to re-select a region, set " 0 " to start up the setup menu.

3 Extended parameters

• Input/output parameters

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>F 100</i>	0100	Low-speed signal output frequency	Hz	0.1/0.01	0.0- <i>F H</i>	0.0		6.1.1
<i>F 101</i>	0101	Speed reach setting frequency	Hz	0.1/0.01	0.0- <i>F H</i>	0.0		6.1.3
<i>F 102</i>	0102	Speed reach detection band	Hz	0.1/0.01	0.0- <i>F H</i>	2.5		6.1.2 6.1.3
<i>F 104</i>	0104	Always active function selection 1	-	-	0-153	0(No function)		6.3.1
<i>F 105</i>	0105	Priority selection (Both F-CC and R-CC are ON)	-	-	0: Reverse 1: Deceleration stop	1		6.2.1
<i>F 107</i>	0107	Analog input terminal selection (VIB)	-	-	0: 0 - +10V 1: -10 - +10V	0		6.2.2 6.6.2 7.3
<i>F 108</i>	0108	Always active function selection 2	-	-	0-153	0(No function)		6.3.1
<i>F 109</i>	0109	Analog/logic input selection (VIA/VIB)	-	-	0: Analog input for communications VIB-analog input 1: VIA-analog input VIB-contact input (Sink) 2: VIA-analog input VIB-contact input (Source) 3: VIA-contact input (Sink) VIB-contact input (Sink) 4: VIA-contact input (Source) VIB-contact input (Source)	0		6.2.3 6.3.2 6.6.2 7.2.1 7.3
<i>F 110</i>	0110	Always active function selection 3	-	-	0-153	6 (ST)		6.3.1
<i>F 111</i>	0111	Input terminal selection 1A (F)	-	-	0-203	2 (F)		6.3.2 7.2.1
<i>F 112</i>	0112	Input terminal selection 2A (R)	-	-		4 (R)		
<i>F 113</i>	0113	Input terminal selection 3A (RES)	-	-		8 (RES)		
<i>F 114</i>	0114	Input terminal selection 4A (S1)	-	-		10 (SS1)		
<i>F 115</i>	0115	Input terminal selection 5 (S2)	-	-		12 (SS2)		
<i>F 116</i>	0116	Input terminal selection 6 (S3)	-	-		14 (SS3)		
<i>F 117</i>	0117	Input terminal selection 7 (VIB)	-	-	8-55	16 (SS3)		6.3.2 7.2.1
<i>F 118</i>	0118	Input terminal selection 8 (VIA)	-	-		24 (AD2)		

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>F 130</i>	0130	Output terminal selection 1A (RY-RC)	-	-	0-255	4 (LOW)		6.3.3 7.2.2
<i>F 131</i>	0131	Output terminal selection 2A (OUT)	-	-		6 (RCH)		
<i>F 132</i>	0132	Output terminal selection 3 (FL)	-	-		10 (FL)		
<i>F 137</i>	0137	Output terminal selection 1B (RY-RC)	-	-		255 (always ON)		
<i>F 138</i>	0138	Output terminal selection 2B (OUT)	-	-		255 (always ON)		
<i>F 139</i>	0139	Output terminal logic selection (RY-RC, OUT-NO)	-	-	0: <i>F 130</i> and <i>F 137</i> <i>F 131</i> and <i>F 138</i> 1: <i>F 130</i> or <i>F 137</i> <i>F 131</i> and <i>F 138</i> 2: <i>F 130</i> and <i>F 137</i> <i>F 131</i> or <i>F 138</i> 3: <i>F 130</i> or <i>F 137</i> <i>F 131</i> or <i>F 138</i>	0		6.3.3 7.2.2
<i>F 144</i>	0144	Input terminal response time	ms	1/1	1-1000	1		7.2.1
<i>F 146</i>	0146	Logic input/pulse train input selection (S2)	-	-	0: Logic input 1: Pulse train input	0		6.6.5
<i>F 147</i>	0147	Logic input/PTC input selection (S3)	-	-	0: Logic input 1: Pulse train input	0		2.3.2 6.24.15
<i>F 151</i>	0151	Input terminal selection 1B (F)	-	-	0-203	0		6.3.2 7.2.1
<i>F 152</i>	0152	Input terminal selection 2B (R)	-	-		0		
<i>F 153</i>	0153	Input terminal selection 3B (RES)	-	-		0		
<i>F 154</i>	0154	Input terminal Selection 4B (S1)	-	-		0		
<i>F 155</i>	0155	Input terminal selection 1C (F)	-	-		0		
<i>F 156</i>	0156	Input terminal selection 2C (R)	-	-		0		
<i>F 167</i>	0167	Frequency command agreement detection range	Hz	0.1/0.01		0.0- <i>FH</i>	2.5	

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>F 170</i>	0170	Base frequency 2	Hz	0.1/0.01	25.0-500.0	50.0 (WP) 60.0 (WN)		6.4.1
<i>F 171</i>	0171	Base frequency voltage 2	Hz	1/0.1	50-330 (240V class) 50-660 (500V class)	*2		
<i>F 172</i>	0172	Torque boost 2	%	0.1/0.1	0.0-30.0	*1		
<i>F 173</i>	0173	Motor electronic-thermal protection level 2	% (A)	1/1	10-100	100		3.5 6.4.1 6.24.1
<i>F 185</i>	0185	Stall prevention level 2	% (A)	1/1	10-199 200 (disabled)	150		6.4.1 6.24.2
<i>F 190</i>	0190	V/f 5-point setting VF1 frequency	Hz	0.1/0.01	0.0-FH	0.0		5.12 6.5
<i>F 191</i>	0191	V/f 5-point setting VF1 voltage	%	0.1/0.01	0.0-125.0	0.0		
<i>F 192</i>	0192	V/f 5-point setting VF2 frequency	Hz	0.1/0.01	0.0-FH	0.0		
<i>F 193</i>	0193	V/f 5-point setting VF2 voltage	%	0.1/0.01	0.0-125.0	0.0		
<i>F 194</i>	0194	V/f 5-point setting VF3 frequency	Hz	0.1/0.01	0.0-FH	0.0		
<i>F 195</i>	0195	V/f 5-point setting VF3 voltage	%	0.1/0.01	0.0-125.0	0.0		
<i>F 196</i>	0196	V/f 5-point setting VF4 frequency	Hz	0.1/0.01	0.0-FH	0.0		
<i>F 197</i>	0197	V/f 5-point setting VF4 voltage	%	0.1/0.01	0.0-125.0	0.0		
<i>F 198</i>	0198	V/f 5-point setting VF5 frequency	Hz	0.1/0.01	0.0-FH	0.0		
<i>F 199</i>	0199	V/f 5-point setting VF5 voltage	%	0.1/0.01	0.0-125.0	0.0		

*1: Default values vary depending on the capacity. See the table of last page

*2: 230 (200V class), 460 (400V class), 575 (600V class)

• Frequency parameters

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>F200</i>	0200	Frequency priority selection	-	-	0: <i>FNOd</i> (Switchable to <i>F207</i> by terminal input) 1: <i>FNOd</i> (Switchable to <i>F207</i> at 1.0Hz of designated frequency)	0		6.6.1 7.3
<i>F201</i>	0201	VIA input point 1 setting	%	1/1	0-100	0		6.6.2 7.3
<i>F202</i>	0202	VIA input point 1 frequency	Hz	0.1/0.01	0.0-500.0	0.0		
<i>F203</i>	0203	VIA input point 2 setting	%	1/1	0-100	100		
<i>F204</i>	0204	VIA input point 2 frequency	Hz	0.1/0.01	0.0-500.0	50.0 (WP) 60.0 (WN)		
<i>F205</i>	0205	VIA input point 1 rate	%	1/0.01	0-250	0		6.26
<i>F206</i>	0206	VIB input point 2 rate	%	1/0.01	0-250	100		
<i>F207</i>	0207	Frequency setting mode selection 2	-	-	0: Setting dial 1 (save even if power is off) 1: Terminal board VIA 2: Terminal board VIB 3: Setting dial 2 (press in center to save) 4: RS485 communication 5: UP/DOWN from external logic input 6: CANopen communication 7: Communication option 8: Terminal board VIC 9, 10: - 11: Pulse train input	1		6.3.4 6.6.1 7.3
<i>F209</i>	0209	Analog input filter	ms	1/1	2-1000	64		6.6.2 7.3
<i>F210</i>	0210	VIB input point 1 setting	%	1/1	-100 - +100	0		
<i>F211</i>	0211	VIB input point 1 frequency	Hz	0.1/0.01	0.0-500.0	0.0		
<i>F212</i>	0212	VIB input point 2 setting	%	1/1	-100 - +100	100		
<i>F213</i>	0213	VIB input point 2 frequency	Hz	0.1/0.01	0.0-500.0	50.0 (WP) 60.0 (WN)		
<i>F214</i>	0214	VIB input point 1 rate	%	1/0.01	-250 - +250	0		6.26 6.27
<i>F215</i>	0215	VIB input point 2 rate	%	1/0.01	-250 - +250	100		

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>F216</i>	0216	VIC input point 1 setting	%	1/1	0-100	0		6.6.2 7.3
<i>F217</i>	0217	VIC input point 1 frequency	Hz	0.1/0.01	0.0-500.0	0.0		
<i>F218</i>	0218	VIC input point 2 setting	%	1/1	0-100	100		
<i>F219</i>	0219	VIC input point 2 frequency	Hz	0.1/0.01	0.0-500.0	*1		
<i>F220</i>	0220	VIC input point 1 rate	%	1/0.01	0-250	0		6.26
<i>F221</i>	0221	VIC input point 2 rate	%	1/0.01	0-250	100		
<i>F239</i>	0239	Factory specific coefficient 2A	-	-	-	-		*2
<i>F240</i>	0240	Starting frequency setting	Hz	0.1/0.01	0.1-10.0	0.5		6.7.1
<i>F241</i>	0241	Operation starting frequency	Hz	0.1/0.01	0.0- <i>FH</i>	0.0		6.7.2
<i>F242</i>	0242	Operation starting frequency hysteresis	Hz	0.1/0.01	0.0- <i>FH</i>	0.0		
<i>F249</i>	0249	PWM carrier Frequency during DC braking	kHz	0.1/0.1	2.0-16.0	4.0		6.8.1
<i>F250</i>	0250	DC braking starting frequency	Hz	0.1/0.01	0.0- <i>FH</i>	0.0		
<i>F251</i>	0251	DC braking current	%(A)	1/1	0-100	50		
<i>F252</i>	0252	DC braking time	s	0.1/0.1	0.0-25.5	1.0		
<i>F254</i>	0254	Motor shaft fixing control	-	-	0: Disabled 1: Enabled (after DC braking)	0		6.8.2
<i>F256</i>	0256	Time limit for lower-limit frequency operation	s	0.1/0.1	0: Disabled 0.1-600.0	0.0		6.9.1
<i>F257</i>	0257	Factory specific coefficient 2B	-	-	-	-		*2
<i>F258</i>	0258	Factory specific coefficient 2C	-	-	-	-		*2
<i>F260</i>	0260	Jog run frequency	Hz	0.1/0.01	<i>F240</i> -20.0	5.0		6.10
<i>F261</i>	0261	Jog run stopping pattern	-	-	0: Deceleration stop 1: Coast stop 2: DC braking stop	0		
<i>F262</i>	0262	Panel jog run operation mode	-	-	0: InValid 1: Valid	0		

*1: Default values vary depending on the capacity. See the table of last page

*2: Factory specific coefficients are parameters exclusively for manufacturer settings.
Do not change these parameters.

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>F264</i>	0264	External logic input -UP response time	s	0.1/0.1	0.0-10.0	0.1		6.6.3
<i>F265</i>	0265	External logic input -UP frequency steps	Hz	0.1/0.01	0.0- <i>FH</i>	0.1		
<i>F266</i>	0266	External logic input -DOWN response time	s	0.1/0.1	0.0-10.0	0.1		
<i>F267</i>	0267	External logic Input-DOWN frequency steps	Hz	0.1/0.01	0.0- <i>FH</i>	0.1		
<i>F268</i>	0268	Initial value of UP/DOWN frequency	Hz	0.1/0.01	<i>LL - UL</i>	0.0		
<i>F269</i>	0269	Change of the initial value of UP/DOWN frequency	-	-	0: Not changed 1: Setting of <i>F268</i> changed when power is turned off	1		
<i>F270</i>	0270	Jump frequency 1	Hz	0.1/0.01	0.0- <i>FH</i>	0.0		6.11
<i>F271</i>	0271	Jumping width 1	Hz	0.1/0.01	0.0-30.0	0.0		
<i>F272</i>	0272	Jump frequency 2	Hz	0.1/0.01	0.0- <i>FH</i>	0.0		
<i>F273</i>	0273	Jumping width 2	Hz	0.1/0.01	0.0-30.0	0.0		
<i>F274</i>	0274	Jump frequency 3	Hz	0.1/0.01	0.0- <i>FH</i>	0.0		
<i>F275</i>	0275	Jumping width 3	Hz	0.1/0.01	0.0-30.0	0.0		
<i>F287</i>	0287	Preset-speed frequency 8	Hz	0.1/0.01	<i>LL - UL</i>	0.0		3.6 6.12
<i>F288</i>	0288	Preset-speed frequency 9	Hz	0.1/0.01	<i>LL - UL</i>	0.0		
<i>F289</i>	0289	Preset-speed frequency 10	Hz	0.1/0.01	<i>LL - UL</i>	0.0		
<i>F290</i>	0290	Preset-speed frequency 11	Hz	0.1/0.01	<i>LL - UL</i>	0.0		
<i>F291</i>	0291	Preset-speed frequency 12	Hz	0.1/0.01	<i>LL - UL</i>	0.0		
<i>F292</i>	0292	Preset-speed frequency 13	Hz	0.1/0.01	<i>LL - UL</i>	0.0		
<i>F293</i>	0293	Preset-speed frequency 14	Hz	0.1/0.01	<i>LL - UL</i>	0.0		
<i>F294</i>	0294	Preset-speed frequency 15	Hz	0.1/0.01	<i>LL - UL</i>	0.0		
<i>F295</i>	0295	Bumpless operation selection	-	-	0: Disabled 1: Enabled	0		6.13
<i>F298</i>	0298	Factory specific coefficient 2D	-	-	-	-		*1

*1: Factory specific coefficient parameters are manufacturer setting parameters.
Do not change the value of these parameters.

• Operation mode parameters

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F300	0300	PWM carrier frequency	kHz	0.1/0.1	2.0-16.0	4.0		6.14
F301	0301	Auto-restart control selection	-	-	0: Disabled 1: At auto-restart after momentary stop 2: At ST terminal off and on 3: 1 + 2 4: At start-up	0		6.15.1
F302	0302	Regenerative power ride-through control (Deceleration stop)	-	-	0: Disabled 1: Regenerative power ride-through control 2: Deceleration stop during power failure 3: Synchronize acceleration/ deceleration (signal) 4: Synchronized acceleration/ deceleration (signal + failure)	0		6.15.2
F303	0303	Retry selection (number of times)	Times	1/1	0: Disabled 1-10	0		6.15.3
F304	0304	Dynamic braking selection	-	-	0: Disabled 1: Enabled, Resistor overload protection enabled 2: Enabled 3: Enabled, Resistor overload protection enabled (At ST terminal on) 4: Enabled (At ST terminal on)	0		6.15.4
F305	0305	Overvoltage limit operation (Deceleration stop mode selection)	-	-	0: Enabled 1: Disabled 2: Enabled (Quick deceleration control) 3: Enabled (Dynamic quick deceleration control)	2		6.15.5
F307	0307	Supply voltage correction (output voltage limitation)	-	-	0: Supply voltage uncorrected, output voltage limited	*2		6.15.6
					1: Supply voltage corrected, output voltage limited			
					2: Supply voltage uncorrected, output voltage unlimited			
					3: Supply voltage corrected, output voltage unlimited			
F308	0308	Dynamic braking resistance	Ω	0.1/0.1	1.0-1000	* 1		6.15.4
F309	0309	Allowable continuous braking resistance	kW	0.01/0.01	0.01-30.00	* 1		

*1: Parameter values vary depending on the capacity. See the table of last page.

*2: Depends upon the setup menu settings. See the table of last page.

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>F310</i>	0310	Factory specific coefficient 3A	-	-	-	-		*1
<i>F311</i>	0311	Reverse-run prohibition	-	-	0: Forward/reverse run permitted 1: Reverse run prohibited 2: Forward run prohibited	0		6.15.7
<i>F312</i>	0312	Random mode	-	-	0: Disabled 1: Random mode 1 2: Random mode 2 3: Random mode 3	0		6.14
<i>F316</i>	0316	Carrier frequency control mode selection	-	-	0: Carrier frequency without reduced automatically	1		6.14
					1: Carrier frequency with automatic reduction			
					2: Carrier frequency not reduced automatically support for 500V models			
					3: Carrier frequency reduced automatically support for 500V models			
<i>F317</i>	0317	Synchronized deceleration time (time elapsed between start of deceleration to stop)	s	0.1/0.01	0.0-3600 (360.0)	2.0		6.15.2
<i>F318</i>	0318	Synchronized acceleration time (time elapsed between start of acceleration to achievement of specified speed)	s	0.1/0.01	0.0-3600 (360.0)	2.0		
<i>F319</i>	0319	Regenerative over-excitation upper limit	%	1/1	100-160	120		6.15.5
<i>F320</i>	0320	Droop gain	%	1/1	0.0-100.0	0.0		6.16
<i>F323</i>	0323	Droop insensitive torque band	%	1/1	0-100	10		
<i>F324</i>	0324	Droop output filter	-	0.1/0.1	0.1-200.0	100.0		

*1: Factory specific coefficient parameters are manufacturer setting parameters.
Do not change the value of these parameters.

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>F 328</i>	0328	Light-load high-speed operation selection	-	-	0: Disabled 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 <i>F 330</i> (Power running at F command: Increase) 4: High-speed operation speed set with <i>F 330</i> (Power running at R command: Increase)	0		6.17
<i>F 329</i>	0329	Light-load high-speed learning function	-	-	0: No learning 1: Forward run learning 2: Reverse run learning	0		6.17
<i>F 330</i>	0330	Automatic light-load high-speed operation frequency	Hz	0.1/0.01	30.0- <u>UL</u>	*1		
<i>F 331</i>	0331	Light-load high-speed operation frequency	Hz	0.1/0.01	5.0- <u>UL</u>	40.0		
<i>F 332</i>	0332	Light-load high-speed operation load waiting time	s	0.1/0.1	0.0-10.0	0.5		
<i>F 333</i>	0333	Light-load high-speed operation load detection time	s	0.1/0.1	0.0-10.0	1.0		
<i>F 334</i>	0334	Light-load high-speed operation heavy load detection time	s	0.1/0.1	0.0-10.0	0.5		
<i>F 335</i>	0335	Switching load torque during power running	%	1/0.01	-250 - +250	50		
<i>F 336</i>	0336	Heavy-load torque during power running	%	1/0.01	-250 - +250	100		
<i>F 337</i>	0337	Heavy-load torque during constant power running	%	1/0.01	-250 - +250	50		
<i>F 338</i>	0338	Switching load torque during regenerative braking	%	1/0.01	-250 - +250	50		

*1: Default setting values vary depending on the setup menu setting. See the table of last page.

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>F340</i>	0340	Creeping time1	s	0.01/0.01	0.00-10.00	0.00		6.18.1
<i>F341</i>	0341	Braking mode selection	-	-	0: Disabled 1: Forward winding up 2: Reverse winding up 3: Horizontal operation	0		
<i>F342</i>	0342	Load portion torque input selection	-	-	0: Disabled 1: VIA 2: VIB 3: VIC 4: <i>F343</i>	0		
<i>F343</i>	0343	Hoisting torque bias input (valid only when <i>F343=4</i>)	%	1/0.01	-250 - +250	100		
<i>F344</i>	0344	Lowering torque bias multiplier	%	1/0.01	0-100	100		
<i>F345</i>	0345	Brake release time	s	0.01/0.01	0.00-10.00	0.05		
<i>F346</i>	0346	Creeping frequency	Hz	0.1/0.01	<i>F240</i> -20.0	3.0		
<i>F347</i>	0347	Creeping time 2	s	0.01/0.01	0.00-10.00	0.10		
<i>F348</i>	0348	Braking time learning function	-	1/1	0: Disabled 1: Learning (0 after adjustment)	0		6.19
<i>F349</i>	0349	Acceleration/ deceleration suspend function	-	1/1	0: Disabled 1: Parameter setting 2: Terminal input	0		
<i>F350</i>	0350	Acceleration suspend frequency	Hz	0.1/0.01	0.0- <i>FH</i>	0.0		
<i>F351</i>	0351	Acceleration suspend time	s	0.1/0.1	0.0-10.0	0.0		
<i>F352</i>	0352	Deceleration suspend frequency	Hz	0.1/0.01	0.0- <i>FH</i>	0.0		
<i>F353</i>	0353	Deceleration suspend time	s	0.1/0.1	0.0-10.0	0.0		
<i>F359</i>	0359	PID control waiting time	s	1/1	0-2400	0		
<i>F360</i>	0360	PID control	-	-	0: Disabled 1: Process type PID control 2: Speed type PID control	0		
<i>F361</i>	0361	Delay filter	s	0.1/0.1	0.0-25.0	0.1		
<i>F362</i>	0362	Proportional gain	-	0.01/0.01	0.01-100.0	0.30		
<i>F363</i>	0363	Integral gain	-	0.01/0.01	0.01-100.0	0.20		
<i>F366</i>	0366	Differential gain	-	0.01/0.01	0.00-2.55	0.00		
<i>F367</i>	0367	Process upper limit	Hz	0.1/0.01	0.0- <i>FH</i>	*1		
<i>F368</i>	0368	Process lower limit	Hz	0.1/0.01	0.0- <i>F367</i>	0.0		
<i>F369</i>	0369	PID control feedback signal selection	-	-	0: Disabled 1: VIA 2: VIB 3: VIC 4 to 6: -	0		

*1: Default setting values vary depending on the setup menu setting. See the table of last page.

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F372	0372	Process increasing rate (speed type PID control)	s	0.1/0.1	0.1-600.0	10.0		6.20
F373	0373	Process decreasing rate (speed type PID control)	s	0.1/0.1	0.1-600.0	10.0		
F375	0375	Factory specific coefficient 3B	-	-	-	-		*1
F376	0376	Factory specific coefficient 3C	-	-	-	-		
F378	0378	Number of pulse train input	pps	1/1	100-5000	250		6.6.5
F380	0380	PID forward/reverse characteristics selection	-	-	0: Forward 1: Reverse	0		6.20
F382	0382	Hit and stop control	-	-	0: Disabled 1: Enabled 2: -	0		6.18.2
F383	0383	Hit and stop control frequency	Hz	0.1/0.01	0.1-30.0	5.0		
F384	0384	Factory specific coefficient 3D	-	-	-	-		*1
F385	0385	Factory specific coefficient 3E	-	-	-	-		
F386	0386	Factory specific coefficient 3F	-	-	-	-		
F389	0389	PID control Reference signal selection	-	-	0: FFDIF207 selected 1: Terminal board VIA 2: Terminal board VIB 3: FPI2 4: RS485 communication 5: UP/DOWN from external logic input 6: CANopen communication 7: Communication option 8: Terminal board VIC 9, 10: - 11: Pulse train input	0		6.20
F390	0390	Factory specific coefficient 3G	-	-	-	-		*1
F391	0391	Hysteresis for lower-limit frequency operation	Hz	0.1/0.01	0.0 - UL	0.2		6.9.1

*1: Factory specific coefficient parameters are manufacturer setting parameters.
Do not change the value of these parameters.

•Torque boost parameter

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>F400</i>	0400	Auto-tuning	-	-	0: Auto-tuning disabled 1: Initialization of <i>F402</i> (after execution: 0) 2: Auto-tuning executed (after execution: 0) 3: - 4: Motor constant auto calculation (after execution: 0) 5: 4 + 2 (after execution: 0)	0		6.21
<i>F401</i>	0401	Slip frequency gain	%	1/1	0-150	50		
<i>F402</i>	0402	Automatic torque boost value	%	0.1/0.1	0.0-30.0	*2		
<i>F405</i>	0405	Motor rated capacity	kW	0.01/0.01	0.01-22.00	*2		
<i>F412</i>	0412	Motor specific coefficient 1	-	-	-	-		*3
<i>F415</i>	0415	Motor rated current	A	0.1/0.1	0.1-100.0	*1		6.21
<i>F416</i>	0416	Motor no-load current	%	1/1	10-90	*1		
<i>F417</i>	0417	Motor rated speed	min ⁻¹	1/1	100-64000	*1		
<i>F441</i>	0441	Power running torque limit 1 level	%	1/0.01	0-249% 250: Disabled	250		6.22.1
<i>F443</i>	0443	Regenerative braking torque limit 1 level	%	1/0.01	0-249% 250: Disabled	250		
<i>F444</i>	0444	Power running torque limit 2 level	%	1/0.01	0-249% 250: Disabled	250		
<i>F445</i>	0445	Regenerative braking torque limit 2 level	%	1/0.01	0-249% 250: Disabled	250		
<i>F451</i>	0451	Acceleration / deceleration operation after torque limit	-	1/1	0: In sync with acceleration/ deceleration 1: In sync with min time	0		6.22.2
<i>F452</i>	0452	Power running stall continuous trip detection time	s	0.01/0.01	0.00-10.00	0.00		6.22.3
<i>F454</i>	0454	Constant output zone torque limit selection	-	-	0: Constant output limit 1: Constant torque limit	0		6.22.1
<i>F458</i>	0458	Motor specific coefficient 2	-	-	-	-		*3
<i>F459</i>	0459	Load inertia moment ratio	times	0.1/0.1	0.1-100.0	1.0		6.21

*1: Parameter values vary depending on the capacity. See the table of last page.

*2: Depends upon the setup menu settings. See the table of last page.

*3: Motor specific coefficient 1 to 9 are parameters exclusively for manufacturer settings. Do not change these parameter.

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F460	0460	Motor specific coefficient 3	-	-	-	-		*1
F461	0461	Motor specific coefficient 4	-	-	-	-		
F462	0462	Motor specific coefficient 5	-	-	-	-		
F467	0467	Motor specific coefficient 6	-	-	-	-		

• Input/output parameters 2

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F470	0470	VIA input bias	-	1/1	0-255	128		6.6.4
F471	0471	VIA input gain	-	1/1	0-255	128		
F472	0472	VIB input bias	-	1/1	0-255	128		
F473	0473	VIB input gain	-	1/1	0-255	128		
F474	0474	VIC input bias	-	1/1	0-255	128		
F475	0475	VIC input gain	-	1/1	0-255	128		

• Torque boost parameters2

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F480	0480	Motor specific coefficient 7	-	-	-	-		*1
F485	0485	Motor specific coefficient 8	-	-	-	-		
F490	0490	Motor specific coefficient 9	-	-	-	-		
F495	0495	Motor specific coefficient 10	-	-	-	-		
F499	0499	Motor specific coefficient 11	-	-	-	-		

*1: Motor specific coefficient 1 to 9 are parameters exclusively for manufacturer settings.
Do not change these parameter.

• Acceleration/deceleration time parameters

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>F500</i>	0500	Acceleration time 2	s	0.1/0.1	0.0-3600 (360.0) *1	10.0		6.23.2
<i>F501</i>	0501	Deceleration time 2	s	0.1/0.1	0.0-3600 (360.0) *1	10.0		
<i>F502</i>	0502	Acceleration/ deceleration 1 pattern	-	-	0: Linear 1: S-pattern 1 2: S-pattern 2	0		6.23.1
<i>F503</i>	0503	Acceleration/ deceleration 2 pattern	-	-		0		6.23.2
<i>F504</i>	0504	Acceleration/ deceleration selection (1, 2, 3)	-	-		1: Acceleration/deceleration1 2: Acceleration/deceleration2 3: Acceleration/deceleration3	1	
<i>F505</i>	0505	Acceleration/ deceleration 1 and 2 switching frequency	Hz	0.1/0.01	0.0 (disabled) 0.1- <u>UL</u>	0.0		
<i>F506</i>	0506	S-pattern lower-limit adjustment amount	%	1/1	0-50	10		6.23.1
<i>F507</i>	0507	S-pattern upper-limit adjustment amount	%	1/1	0-50	10		
<i>F510</i>	0510	Acceleration time 3	s	0.1/0.1	0.0-3600 (360.0)*1	10.0		6.23.2
<i>F511</i>	0511	Deceleration time 3	s	0.1/0.1	0.0-3600 (360.0)*1	10.0		
<i>F512</i>	0512	Acceleration/ deceleration 3 pattern	-	-	0: Linear 1: S-pattern 1 2: S-pattern 2	0		
<i>F513</i>	0513	Acceleration/ deceleration 2 and 3 switching frequency	Hz	0.1/0.01	0.0: (disabled) 0.1- <u>UL</u>	0.0		
<i>F515</i>	0515	Deceleration time at emergency stop	s	0.1/0.01	0.0-3600 (360.0)*1	10.0		6.24.4
<i>F519</i>	0519	Setting of acceleration/ deceleration time unit	-	-	0:- 1:0.01s unit (after execution: 0) 2:0.1s unit (after execution)	0		6.23.2

*1These parameters can be changed to 0.01s unit by setting *F519*= 1.

• Protection parameters

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>F601</i>	0601	Stall prevention level 1	% (A)	1/1	10-199, 200 (disabled)	150		6.24.2
<i>F602</i>	0602	Inverter trip retention selection	-	-	0: Canceled with the power off 1: Retained with power off	0		6.24.3
<i>F603</i>	0603	Emergency stop selection	-	-	0: Coast stop 1: Deceleration stop 2: Emergency DC braking 3: Deceleration stop (<i>F515</i>) 4: Quick deceleration atop 5: Dynamic quick deceleration stop			6.24.4

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F604	0604	DC braking time during emergency stop	s	0.1/0.1	0.0-20.0	1.0		6.24.4
F605	0605	Output phase failure detection mode selection	-	-	0: Disabled 1: At start-up (only one time after power on) 2: At start-up (each time) 3: During operation 4: At start-up + during operation 5: Detection of cutoff on output side	0		6.24.5
F607	0607	Motor 150% -overload detection time	s	1/1	10-2400	300		3.5 6.24.1
F608	0608	Input phase failure detection selection	-	-	0: Disabled 1: Enabled	1		6.24.6
F609	0609	Small current detection hysteresis	%	1/1	1-20	10		6.24.7
F610	0610	Small current trip/alarm selection	-	-	0: Alarm only 1: Tripping	0		
F611	0611	Small current detection current	% (A)	1/1	0-150	0		
F612	0612	Small current detection time	s	1/1	0-255	0		
F613	0613	Detection of output short-circuit at start-up	-	-	0: Each time (standard pulse) 1: Only one time after power on (standard pulse) 2: Each time (short pulse) 3: Only one time after power on (short pulse)	0		6.24.8
F615	0615	Over-torque trip/alarm selection	-	-	0: Alarm only 1: Tripping	0		6.24.9
F616	0616	Over-torque detection level	%	1/1	0 (disabled) 1-250	150		
F618	0618	Over-torque detection time	s	0.1/0.1	0.0-10.0	0.5		
F619	0619	Over-torque detection hysteresis	%	1/1	0-100	10		
F620	0620	Cooling fan on/off control	-	-	0: on/off control 1: Always on	0		6.24.10
F621	0621	Cumulative operation time alarm setting	100 hours	0.1/0.1 (=10 hours)	0.0-999.9	876.0		6.24.11
F626	0626	Over-voltage stall protection level	%	1/1	100-150	*1		6.15.4 6.15.5
F627	0627	Under-voltage trip/alarm selection	-	-	0: Alarm only 1: Tripping 2:-	0		6.24.12

*1: Parameter values vary depending on the capacity. See the table of last page.

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F631	0631	Inverter over-load detection method	-	-	0: 150%-60s (120%-60s) 1: Temperature estimation	0		3.5
F632	0632	Electronic-thermal memory	-	-	0: Disabled 1: Enabled	0		3.5 6.24.1
F633	0633	Analog input break detection level (VIC)	%	1/1	0: Disabled, 1-100	0		6.24.13
F634	0634	Annual average ambient temperature (parts replacement alarms)	-	-	1: -10 to +10°C 2: 11-20°C 3: 21-30°C 4: 31-40°C 5: 41-50°C 6: 51-60°C	3		6.24.14
F644	0644	Operation selection of analog input break detection (VIC)	-	-	0: Tripping 1: Alarm only (Coast stop) 2: Alarm only (F649 frequency) 3: Alarm only (Maintain running) 4: Alarm only (Deceleration stop)	0		6.24.13
F645	0645	PTC thermal selection	-	-	1: Tripping 2: Alarm only	1		6.24.15
F646	0646	PTC detection Resistor value	Ω	1/1	100-9999	3000		
F648	0648	Number of starting alarm	10000 times	0.1/0.1	0.0-999.0	999.0		6.24.16
F649	0649	Fallback frequency	Hz	0.1/0.1	LL-UL	0.0		6.24.13
F650	0650	Forced fire-speed control selection	-	-	0: Disabled 1: Enabled	0		6.25
F656	0656	Factory specific Coefficient 6A	-	-	-	-		*1
F657	0657	Overload alarm level	%	1/1	10-100	50		3.5
F660	0660	Override addition input selection	-	-	0: Disabled 1: VIA 2: VIB 3: VIC 4: FL	0		6.26
F661	0661	Override multiplication Input selection	-	-	0: Disabled 1: VIA 2: VIB 3: VIC 4: F729	0		
F663	0663	Analog input terminal function selection (VIB)	-	-	0: Frequency command 1: Acceleration/deceleration time 2: Upper limit frequency 3, 4: - 5: Torque boost value 6: Stall prevention level 7: Motor electronic-thermal protection level 8 to 10: - 11: Base frequency	0		6.28.1

*1: Motor specific coefficient 1 to 9 are parameters exclusively for manufacturer settings.
Do not change these parameter.

• Output parameters

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F669	0669	Logic output/pulse train output selection (OUT)	-	-	0: Logic output 1: Pulse train output	0		6.28.1
F676	0676	Pulse train output function selection (OUT)	-	-	0: Output frequency 1: Output current 2: Frequency reference 3: Input voltage (DC detection) 4: Output voltage (command value) 5: Input power 6: Output power 7: Torque 8: - 9: Motor cumulative load factor 10: Inverter cumulative load factor 11: PBR (braking reactor) cumulative load factor 12: Frequency setting value (after compensation) 13: VIA Input value 14: VIB Input value 15: Fixed output 1 (output current: 100% equivalent) 16: Fixed output 2 (output current: 50% equivalent) 17: Fixed output 3 (other than the output current) 18: Communication data 19: - 20: VIC input value 21, 22: - 23: PID feedback value	0		
F677	0677	Maximum numbers of pulse train output	kpps	0.01/0.01	0.50-2.00	0.80		
F678	0678	Pulse train output filter	ms	1/1	2-1000	64		
F679	0679	Pulse train input filter	ms	1/1	2-1000	2		6.6.5
F681	0681	Analog output signal selection	-	-	0: Meter option (0 to 1mA) 1: Current (0 to 20mA) output 2: Voltage (0 to 10V) output	0		3.4 6.28.2
F684	0684	Analog output filter	ms	1/1	2-1000	2		
F691	0691	Inclination characteristic of analog output	-	-	0: Negative inclination (downward slope) 1: Positive inclination (upward slope)	1		
F692	0692	Analog output bias	%	0.1/0.1	-1.0-+100	0.0		
F693	0693	Factory specific coefficient 6B	-	-	-	-		*1

*1: Motor specific coefficient 1 to 9 are parameters exclusively for manufacturer settings.
Do not change these parameter.

•Operation panel parameters

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>F 700</i>	0700	Parameter Protection selection	-	-	0: Permitted 1: Writing prohibited (Panel and remote keypad) 2: Writing prohibited (1 + RS485) 3: Reading prohibited (Panel and remote keypad) 4: Reading prohibited (3 + RS485 communication)	0		6.29.1
<i>F 701</i>	0701	Current/voltage unit selection	-	-	0: % 1: A (ampere) / V (volt)	0		6.29.2
<i>F 702</i>	0702	Frequency free unit display magnification	Times	0.01/0.01	0.00: Disabled (display of frequency) 0.01-200.0	0.00		6.29.3
<i>F 703</i>	0703	Frequency free unit coverage selection	-	1/1	0: All frequencies display 1: PID frequencies display	0		
<i>F 705</i>	0705	Inclination characteristic of free unit display	-	1/1	0: Negative inclination (downward slope) 1: Positive inclination (upward slope)	1		
<i>F 706</i>	0706	Free unit display bias	Hz	0.1/0.01	0.00- <i>F H</i>	0.00		
<i>F 707</i>	0707	Free step 1 (1-step rotation of setting dial)	Hz	0.01/0.01	0.00: Disabled 0.01- <i>F H</i>	0.00		6.29.4
<i>F 708</i>	0708	Free step 2 (panel display)	-	-	0: Disabled 1-255	0		
<i>F 709</i>	0709	Standard monitor hold function	-	-	0: Real time 1: Peak hold 2: Minimum hold	0		6.29.7

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F710	0710	Initial panel display selection	-	-	0: Operation frequency (Hz/free unit) 1: Output current (%/A) 2: Frequency setting value (Hz/free unit) 3: Input voltage (DC detection) (%/V) 4: Output voltage (command value) (%/V) 5: Input power (kW) 6: Output power (kW) 7: Torque (%) 8: - 9: Motor cumulative load factor 10: Inverter cumulative load factor 11: PBR (Braking resistor) cumulative load factor 12: Frequency setting value (after compensation) (Hz/free unit) 13: VIA input value (%) 14: VIB input value (%) 15 to 17: - 18: Arbitrary code from communication 19: - 20: VIC input value (%) 21: Pulse train input value (kpps) 22: - 23: PID feedback value (Hz/free unit) 24: Input power (kWh) 25: Output power (kWh) 26: Motor load factor (%) 27: Inverter load factor (%) 28: Inverter rated current (A) 29: FM output value (%) 30: Pulse train output value (kpps) 31: Cumulative power on time (100 hours) 32: Cumulative fan operation time (100 hours) 33: Cumulative operation time (100 hours) 34: Number of starting (10000 times) 35: Forward number of starting (10000 times) 36: Reverse number of starting (10000 times) 37 to 39: - 40: Inverter rated current (Carrier frequency corrected) 41 to 51: -	0		6.29.5 8.2.1 8.3.2

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F 7 1 1	0711	Status Monitor 1	-	-	0: Operation frequency (Hz/free unit) 1: Output current (%/A) 2: Frequency setting value (Hz/free unit) 3: Input voltage (DC detection) (%/V) 4: Output voltage (Command value) (%/V) 5: Input power (kW)	2		6.29.6 8.2.1 8.3.2
F 7 1 2	0712	Status Monitor 2	-	-	6: Output power (kW) 7: Torque (%) 8: - 9: Motor cumulative load factor 10: Inverter cumulative load factor	1		
F 7 1 3	0713	Status Monitor 3	-	-	11: PBR (Braking resistor) cumulative load factor 12: Frequency setting value (after compensation) (Hz/free unit)	3		
F 7 1 4	0714	Status Monitor 4	-	-	13: VIA input value (%) 14: VIB input value (%) 15 to 19: - 20: VIC input value (%) 21: Pulse train input value (kpps) 22: -	4		
F 7 1 5	0715	Status Monitor 5	-	-	23: PID feedback value (Hz/free unit) 24: Input power (kWh) 25: Output power (kWh) 26: Motor load factor (%) 27: Inverter load factor (%)	5		
F 7 1 6	0716	Status Monitor 6	-	-	28: Inverter rated current (A) 29: FM output value (%) 30: Pulse train output value (kpps) 31: Cumulative power on time (100 hours) 32: Cumulative fan operation time (100 hours)	6		
F 7 1 7	0717	Status Monitor 7	-	-	33: Cumulative operation time (100 hours) 34: Number of starting (10000 times) 35: Forward number of starting (10000 times)	27		
F 7 1 8	0718	Status Monitor 8	-	-	36: Reverse number of starting (10000 times) 37 to 39: - 40: Inverter rated current (Carrier frequency corrected) 41 to 51: -	0		
F 7 1 9	0719	Canceling of operation command when stand by terminal (ST) is turned off	-	-	0: Operation command canceled (cleared) 1: Operation command retained	1		6.29.8
F 7 2 0	0720	Initial remote keypad display	-	-	0-51 (Same as F 7 1 0)	0		6.29.5 8.3.2
F 7 2 1	0721	Panel stop pattern	-	-	0: Deceleration stop 1: Coast stop	0		6.29.9

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F 729	0730	Operation panel override Multiplication gain	%	1/1	-100 - +100	0		6.26
F 730	0730	Panel frequency setting prohibition (FL)	-	-	0: Permitted 1: Prohibited	0		6.29.1
F 731	0731	Disconnection detection of remote keypad	-	-	0: Permitted 1: Prohibited	0		
F 732	0732	Local/remote key prohibition of remote keypad	-	-	0: Permitted 1: Prohibited	1		6.13 6.29.1
F 733	0733	Panel operation prohibition (RUN key)	-	-	0: Permitted 1: Prohibited	0		6.29.1
F 734	0734	Panel emergency stop operation prohibition	-	-	0: Permitted 1: Prohibited	0		
F 735	0735	Panel reset operation prohibition	-	-	0: Permitted 1: Prohibited	0		
F 736	0736	ENOD/FNOD change prohibition during operation	-	-	0: Permitted 1: Prohibited	1		
F 737	0737	All key operation prohibition	-	-	0: Permitted 1: Prohibited	0		
F 738	0738	Password setting (F700)	-	-	0: Password unset 1-9998 9999: Password set	0		
F 739	0739	Password verification	-	-	0: Password unset 1-9998 9999: Password set	0		
F 740	0740	Trace selection	-	-	0: Disabled 1: At tripping 2: At triggering 3: 1 + 2	1		6.30
F 741	0741	Trance cycle	-	-	0: 4ms 1: 20ms 2: 100ms 3: 1s 4: 10s	2		
F 742	0742	Trace data 1	-	-	0-42	0		
F 743	0743	Trace data 2	-	-		1		
F 744	0744	Trace data 3	-	-		2		
F 745	0745	Trace data 4	-	-		3		
F 746	0746	Status monitor filter	ms	-	8-1000	200		6.29.7
F 748	0748	Integrating wattmeter retention selection	-	-	0: Disabled 1: Enabled	0		6.31
F 749	0749	Integrating wattmeter display unit selection	-	-	0: 1=1kWh 1: 1=10kWh 2: 1=100kWh 3: 1=1000kWh	*1		6.31

*1: Depends upon the setup menu settings. See the table of last page.

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F 750	0750	EASY key function selection	-	-	0: Easy/standard setting mode switching function 1: Shortcut key 2: Local/remote key 3: Monitor peak / minimum hold trigger	0		4.5 6.32
F 751	0751	Easy setting mode parameter 1	-	-	0-2999 (Set by communication number)	3		
F 752	0752	Easy setting mode parameter 2	-	-		4		
F 753	0753	Easy setting mode parameter 3	-	-		9		
F 754	0754	Easy setting mode parameter 4	-	-		10		
F 755	0755	Easy setting mode parameter 5	-	-		600		
F 756	0756	Easy setting mode parameter 6	-	-		6		
F 757	0757	Easy setting mode parameter 7	-	-		999		
F 758	0758	Easy setting mode parameter 8	-	-		999		
F 759	0759	Easy setting mode parameter 9	-	-		999		
F 760	0760	Easy setting mode parameter 10	-	-		999		
F 761	0761	Easy setting mode parameter 11	-	-		999		
F 762	0762	Easy setting mode parameter 12	-	-		999		
F 763	0763	Easy setting mode parameter 13	-	-		999		
F 764	0764	Easy setting mode parameter 14	-	-		999		
F 765	0765	Easy setting mode parameter 15	-	-		999		
F 766	0766	Easy setting mode parameter 16	-	-		999		
F 767	0767	Easy setting mode parameter 17	-	-		999		
F 768	0768	Easy setting mode parameter 18	-	-		999		
F 769	0769	Easy setting mode parameter 19	-	-		999		
F 770	0770	Easy setting mode parameter 20	-	-		999		
F 771	0771	Easy setting mode parameter 21	-	-		999		
F 772	0772	Easy setting mode parameter 22	-	-		999		
F 773	0773	Easy setting mode parameter 23	-	-		999		
F 774	0774	Easy setting mode parameter 24	-	-		999		
F 775	0775	Easy setting mode parameter 25	-	-		999		

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F776	0776	Easy setting mode parameter 26	-	-	0-2999 (Set by communication number)	999		4.5 6.32
F777	0777	Easy setting mode parameter 27	-	-		999		
F778	0778	Easy setting mode parameter 28	-	-		999		
F779	0779	Easy setting mode parameter 29	-	-		999		
F780	0780	Easy setting mode parameter 30	-	-		999		
F781	0781	Easy setting mode parameter 31	-	-		999		
F782	0782	Easy setting mode parameter 32	-	-		999		
F799	0799	Factory specific coefficient 7A	-	-	-		*1	

• Communication parameters

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
F800	0800	Baud rate	-	-	3: 9600bps 4: 19200bps 5: 38400bps	4		6.33.1
F801	0801	Parity	-	-	0: NON (No parity) 1: EVEN (Even parity) 2: ODD (Odd parity)	1		
F802	0802	Inverter number	-	1/1	0-247	0		
F803	0803	Communication time-out time	s	1/1	0.0: (disabled) 0.1-100	0.0		
F804	0804	Communication time-out action	-	-	0: Alarm only 1: Trip (Coast stop) 2: Trip (Deceleration stop)	0		
F805	0805	Communication waiting time	s	0.01/0.01	0.00-2.00	0.00		
F806	0806	Setting of master and slave for communication between inverters	-	-	0: Slave (0 Hz command issued in case the master inverter fails) 1: Slave (Operation continued in case the master inverter fails) 2: Slave (Emergency stop tripping in case the master inverter fails) 3: Master (transmission of frequency commands) 4: Master (transmission of output frequency signals)	0		
F808	0808	Communication time-out detection condition	-	-	0: Valid at any time 1: Communication selection of <i>FNOd</i> or <i>CNOd</i> 2: 1 + during operation	1		

*1: Factory specific coefficient parameters are manufacturer setting parameters.
Do not change the value of these parameters.

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference	
<i>FB10</i>	0811	Communication command point selection	-	1/1	0: Disabled 1: Enabled	0		6.6.2 6.331	
<i>FB11</i>	0811	Communication command point 1 setting	%	1/1	0-100	0			
<i>FB12</i>	0812	Communication command point 1 Frequency	Hz	0.1/0.01	0.0- <i>FH</i>	0.0			
<i>FB13</i>	0813	Communication command point 2 setting	%	1/1	0-100	100			
<i>FB14</i>	0814	Communication command point 2 Frequency	Hz	0.1/0.01	0.0- <i>FH</i>	*1			
<i>FB29</i>	0829	Selection of communication protocol	-	-	0: Toshiba inverter protocol 1: Mod bus RTU protocol	0		6.33.1	
<i>FB56</i>	0856	Number of motor poles for communication	-	-	1: 2 poles 2: 4 poles 3: 6 poles 4: 8 poles 5: 10 poles 6: 12 poles 7: 14 poles 8: 16 poles	2			
<i>FB70</i>	0870	Block write data 1	-	-	0: No selection 1: Command information 1 2: Command information 2 3: Frequency setting	0			
<i>FB71</i>	0871	Block write data 2	-	-	4: Output data on the terminal board 5: Analog output for communication 6: Speed command	0			
<i>FB75</i>	0875	Block read data 1	-	-	0: No selection 1: Status information 2: Output frequency	0			
<i>FB76</i>	0876	Block read data 2	-	-	3: Output current 4: Output voltage 5: Alarm information	0			
<i>FB77</i>	0877	Block read data 3	-	-	6: PID feedback value 7: Input terminal board monitor 8: Output terminal board monitor	0			
<i>FB78</i>	0878	Block read data 4	-	-	9: VIA terminal board monitor 10: VIB terminal board monitor 11: VIC terminal board monitor	0			
<i>FB79</i>	0879	Block read data 5	-	-	12: Input voltage (DC detection) 13: Motor speed 14: Torque	0			
<i>FB80</i>	0880	Free notes	-	1/1	0-65535 (65535)	0			6.33.3

*1: Depends upon the setup menu settings. See the table of last page.

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>F898</i>	0898	Factory specific coefficient 8A	-	-	-	-		*1
<i>F899</i>	0899	Communication function reset	-	-	0:- 1:Reset (after execution:0)	0		6.33.1

• Reservation area parameters

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>F900</i>	0900	Factory specific coefficient 9A	-	-	-	-		*1
<i>F901</i>	0901	Factory specific coefficient 9B	-	-	-	-		
<i>F902</i>	0902	Factory specific coefficient 9C	-	-	-	-		
<i>F909</i>	0909	Factory specific coefficient 9D	-	-	-	-		
<i>F910</i>	0910	Step-out detection current level	%	1/1	1-150	100		6.34
<i>F911</i>	0911	Step-out detection time	s	0.01/0.01	0.00: No detection 0.01-2.55	0.00		
<i>F912</i>	0912	q-axis inductance	mH	0.01/0.01	0.01-650.0	10.00		6.21.2 6.34
<i>F913</i>	0913	d-axis inductance	mH	0.01/0.01	0.01-650.0	10.00		
<i>F914</i>	0914	Factory specific coefficient 9E	-	-	-	-		*1
<i>F915</i>	0915	PM control mode selection	-	-	0: Mode 0 1: Mode 1 2: Mode 2 3: Mode 3 4: Mode 4	3		6.21.2
<i>F916</i>	0916	Factory specific coefficient 9F	-	-	-	-		*1
<i>F917</i>	0917	Factory specific coefficient 9G	-	-	-	-		
<i>F918</i>	0918	Factory specific coefficient 9H	-	-	-	-		
<i>F919</i>	0919	Factory specific coefficient 9I	-	-	-	-		
<i>F920</i>	0920	Factory specific coefficient 9J	-	-	-	-		
<i>F930</i>	0930	Factory specific coefficient 9K	-	-	-	-		

*1: Factory specific coefficient parameters are manufacturer setting parameters.
Do not change the value of these parameters.

• Traverse parameters

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>F980</i>	0980	Traverse selection	-	1/1	0: Disabled 1: Enabled	0		6.35
<i>F981</i>	0981	Traverse acceleration time	s	0.1/0.1	0.1-120.0	25.0		
<i>F982</i>	0982	Traverse deceleration time	s	0.1/0.1	0.1-120.0	25.0		
<i>F983</i>	0983	Traverse step	%	0.1/0.1	0.0-25.0	10.0		
<i>F984</i>	0984	Traverse jump step	%	0.1/0.1	0.0-50.0	10.0		

• Logic sequence parameters

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>A900</i>	A900	Input function target 11	-	-	Input terminal function number 0: No function 1: Terminal F 2: Terminal R 3: Terminal RES 4: Terminal S1 5: Terminal S2 6: Terminal S3 7: Terminal VIB 8: Terminal VIA 9 to 20: - 21 to 24: Virtual input terminal 1 to 4 25 to 32: Internal terminal 1 to 4 918 to 934: Logic sequence function number 1000 to 1255: Output selection number 2000 to 2099: FD00 to FD99 3000 to 3099: FE00 to FE99	0		6.36
<i>A901</i>	A901	Input function Command 12	-	-	0: NOP (not operation) 1: ST (move) 2: STN 3: AND (logical product) 4: ANDN 5: OR (logical sum) 6: ORN 7: EQ (equal) 8: NE (not equal) 9: GT (greater than) 10: GE (greater or equal) 11: LT (less than) 12: LE (less or equal) 13: ASUB (absolute) 14: ON (on delay timer) 15: OFF (off delay timer) 16: COUNT 1 (counter 1) 17: COUNT 2 (counter 2) 18: HOLD (hold) 19: SET (set) 20: RESET (reset) 21: CLR 22: CLRN	0		
<i>A902</i>	A902	Input function target 12	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A903</i>	A903	Input function command 13	-	-	0-22 (Same as <i>A901</i>)	0		
<i>A904</i>	A904	Input function target 13	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A905</i>	A905	Output function assigned object 1	-	-	0-3099 (Same as <i>A900</i>)	0		

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>A906</i>	A906	Input function target 21	-	-	0-3099 (Same as <i>A900</i>)	0		6.36
<i>A907</i>	A907	Input function command 22	-	-	0-22 (Same as <i>A901</i>)	0		
<i>A908</i>	A908	Input function target 22	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A909</i>	A909	Input function command 23	-	-	0-22 (Same as <i>A901</i>)	0		
<i>A910</i>	A910	Input function target 23	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A911</i>	A911	Output function assigned object 2	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A912</i>	A912	Input function target 31	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A913</i>	A913	Input function command 32	-	-	0-22 (Same as <i>A901</i>)	0		
<i>A914</i>	A914	Input function target 32	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A915</i>	A915	Input function command 33	-	-	0-22 (Same as <i>A901</i>)	0		
<i>A916</i>	A916	Input function target 33	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A917</i>	A917	Output function assigned object 3	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A918</i>	A918	Output percent data 1	%	0.01/0.01	0.00-200.0	0.00		
<i>A919</i>	A919	Output percent data 2	%	0.01/0.01		0.00		
<i>A920</i>	A920	Output percent data 3	%	0.01/0.01		0.00		
<i>A921</i>	A921	Output percent data 4	%	0.01/0.01		0.00		
<i>A922</i>	A922	Output percent data 1	%	0.01/0.01		0.00		
<i>A923</i>	A923	Output frequency data 1	Hz	0.1/0.01	0.0-500.0	0.0		
<i>A924</i>	A924	Output frequency data 2	Hz	0.1/0.01		0.0		
<i>A925</i>	A925	Output frequency data 3	Hz	0.1/0.01		0.0		
<i>A926</i>	A926	Output frequency data 4	Hz	0.1/0.01		0.0		
<i>A927</i>	A927	Output frequency data 5	Hz	0.1/0.01		0.0		
<i>A928</i>	A928	Output time data 1	s	0.01/0.01	0.01-600.0	0.01		
<i>A929</i>	A929	Output time data 2	s	0.01/0.01		0.01		
<i>A930</i>	A930	Output time data 3	s	0.01/0.01		0.01		
<i>A931</i>	A931	Output time data 4	s	0.01/0.01		0.01		
<i>A932</i>	A932	Output time data 5	s	0.01/0.01		0.01		

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>A933</i>	A933	Number of times of output data 1	times	1/1	0-9999	0		6.36
<i>A934</i>	A934	Number of times of output data 2	times	1/1		0		
<i>A935</i>	A935	Input function target 41	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A936</i>	A936	Input function command 42	-	-	0-22 (Same as <i>A901</i>)	0		
<i>A937</i>	A937	Input function target 42	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A938</i>	A938	Input function command 43	-	-	0-22 (Same as <i>A901</i>)	0		
<i>A939</i>	A939	Input function target 42	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A940</i>	A940	Output function assigned object 4	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A941</i>	A941	Input function target 51	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A942</i>	A942	Input function command 52	-	-	0-22 (Same as <i>A901</i>)	0		
<i>A943</i>	A943	Input function target 52	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A944</i>	A944	Input function command 53	-	-	0-22 (Same as <i>A901</i>)	0		
<i>A945</i>	A945	Input function target 53	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A946</i>	A946	Output function assigned object 5	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A947</i>	A947	Input function target 61	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A948</i>	A948	Input function command 62	-	-	0-22 (Same as <i>A901</i>)	0		
<i>A949</i>	A949	Input function target 62	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A950</i>	A950	Input function command 63	-	-	0-22 (Same as <i>A901</i>)	0		
<i>A951</i>	A951	Input function target 63	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A952</i>	A952	Output function assigned object 6	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A953</i>	A953	Input function target 71	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A954</i>	A954	Input function command 72	-	-	0-22 (Same as <i>A901</i>)	0		
<i>A955</i>	A955	Input function target 72	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A956</i>	A956	Input function command 73	-	-	0-22 (Same as <i>A901</i>)	0		
<i>A957</i>	A957	Input function target 73	-	-	0-3099 (Same as <i>A900</i>)	0		
<i>A958</i>	A958	Output function assigned object 7	-	-	0-3099 (Same as <i>A900</i>)	0		

Title	Communication No.	Function	Unit	Minimum setting unit Panel/Communication	Adjustment range	Default setting	User setting	Reference
<i>A973</i>	A973	Virtual input terminal selection 1	-	-	0-203	0		6.36
<i>A974</i>	A974	Virtual input terminal selection 2	-	-		0		
<i>A975</i>	A975	Virtual input terminal selection 3	-	-		0		
<i>A976</i>	A976	Virtual input terminal selection 4	-	-		0		
<i>A977</i>	A977	Logic sequence function selection	-	-	0: Disabled 1: Logic sequence function + permission signal 2: Logic sequence function always ON	0		

Default settings by inverter rating

Inverter type	Torque boost value	Dynamic braking resistance	Dynamic braking resistor capacity	Automatic torque boost value	Motor rated capacity	Motor rated current	Motor no-load current	Over-Voltage stall protection level	Integrating wattmeter display unit selection
	<i>u b / F 172 (%)</i>	<i>F 308 (Ohm)</i>	<i>F 309 (kW)</i>	<i>F 402 (%)</i>	<i>F 405 (kW)</i>	<i>F 415 (A)</i>	<i>F 416 (%)</i>	<i>F 626</i>	<i>F 749</i>
VFMB1S-2002PL	6.0	200.0	0.12	8.3	0.20	1.2	70	136	0
VFMB1S-2004PL	6.0	200.0	0.12	6.2	0.40	2.0	65	136	0
VFMB1S-2007PL	6.0	200.0	0.12	5.8	0.75	3.4	60	136	0
VFMB1S-2015PL	6.0	75.0	0.12	4.3	1.50	6.2	55	136	0
VFMB1S-2022PL	5.0	75.0	0.12	4.1	2.20	8.9	52	136	0
VFMB1-4004PL	6.0	200.0	0.12	6.2	0.40	1.0	65	141	0
VFMB1-4007PL	6.0	200.0	0.12	5.8	0.75	1.7	60	141	0
VFMB1-4015PL	6.0	200.0	0.12	4.3	1.50	2.4	55	141	0
VFMB1-4022PL	5.0	200.0	0.12	4.1	2.20	4.5	52	141	0
VFMB1-4037PL	5.0	160.0	0.12	3.4	4.00	7.4	48	141	1
VFMB1-4055PL	4.0	80.0	0.24	2.6	5.50	10.5	46	141	1
VFMB1-4075PL	3.0	60.0	0.44	2.3	7.50	14.1	43	141	1
VFMB1-4110PL	2.0	40.0	0.66	2.2	11.00	20.3	41	141	1
VFMB1-4150PL	2.0	30.0	0.88	1.9	15.00	27.3	38	141	1

-Default settings by setup menu

Setting	Main regions	Frequency	Base frequency voltage 1 & 2		V/F control mode selection	Supply voltage correction (output voltage limitation)	Motor rated speed
		<i>U L, u L, F 170, F 204, F 213, F 219, F 330, F 367, F 814 (Hz)</i>	<i>u L u, F 171 (V)</i>		<i>P t</i>	<i>F 307</i>	<i>F 417 (min⁻¹)</i>
		240V class	500V class				
<i>EU</i>	Europe	50.0	230	400	0	2	1410
<i>ASIA</i>	Asia	50.0	230	400	0	2	1410
<i>USA</i>	North America	60.0	230	460	0	2	1710
<i>JP</i>	Japan	60.0	200	400	2	3	1710