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A044/ A244	V/f characteristic curve selection • 00 V/f constant torque • 01 V/f variable torque	00	
A045	V/f gain setting	100.	
A051	DC braking enable • 00 Disable                      • 01 Enable	00	
A052	DC braking frequency setting	0.5	
A053	DC braking wait time	0.0	
A054	DC braking force during deceleration	0.	
A055	DC braking time for deceleration	0.0	
A056	DC braking / edge or level detection for [DB] input	01	
A061/ A261	Frequency upper limit setting	0.0	
A062/ A262	Frequency lower limit setting	0.0	
A063 A065 A067	Jump (center) frequency setting	0.0	
A064 A066 A068	Jump (hysteresis) frequency width setting	0.5	
A071	PID Enable • 00 PID operation OFF • 01 PID operation ON	00	
A072	PID proportional gain	1.0	
A073	PID integral time constant	1.0	
A074	PID derivative time constant	0.0	
A075	PV scale conversion	1.00	
A076	PV source setting • 00 [OI] terminal (current input) • 01 [O] terminal (voltage input) • 02 ModBus network • 03 Calculate function output	00	
A077	Reverse PID action • 00 PID input = SP - PV • 01 PID input = -(SP - PV)	00	
A078	PID output limit	0.0	

Func. Code	Name / Description	Default Value -FEF / -FU	Set Value
A081	AVR function select • 00 AVR enabled • 01 AVR disabled • 02 AVR enabled except during decel	00	
A082	AVR voltage select	230 / 230 400 / 460	
A092/ A292	Acceleration (2) time setting	15.0	
A093/ A293	Deceleration (2) time setting	15.0	
A094/ A294	Select method to switch to Acc2/Dec2 profile • 00 2CH input from terminal • 01 transition frequency	00	
A095/ A295	Acc1 to Acc2 frequency transition point	0.0	
A096/ A296	Dec1 to Dec2 frequency transition point	0.0	
A097	Acceleration curve selection • 00 Linear • 01 S-curve	00	
A098	Deceleration curve selection • 00 Linear • 01 S-curve	00	
A101	[OI]-[L] input active range start frequency	0.0	
A102	[OI]-[L] input active range end frequency	0.0	
A103	[OI]-[L] input active range start current	0.0	
A104	[OI]-[L] input active range end current	100.	
A105	[OI]-[L] input start frequency enable	01	
A141	A input select for calculate function • 00 Digital operator • 01 Keypad potentiometer • 02 [O] input • 03 [OI] input • 04 Network variable	02	
A142	B input select for calculate function • 00 Digital operator • 01 Keypad potentiometer • 02 [O] input • 03 [OI] input • 04 Network variable	03	
A143	Calculation symbol • 00 ADD (A input + B input) • 01 SUB (A input - B input) • 02 MUL (A input x B input)	00	
A145	ADD frequency	0.0	

Func. Code	Name / Description	Default Value -FEF / -FU	Set Value
A146	ADD direction select <ul style="list-style-type: none"> <li>• 00 Plus (adds A145 value to output frequency)</li> <li>• 01 Minus (subtracts A145 value from output frequency)</li> </ul>	00	

## “B” Group: Fine-tuning Functions

Func. Code	Name / Description	Default Value -FEF / -FU	Set Value
B001	Selection of automatic restart mode <ul style="list-style-type: none"> <li>• 00 Alarm output after trip, automatic restart disabled</li> <li>• 01 Restart at 0Hz</li> <li>• 02 Resume operation after frequency matching</li> <li>• 03 Resume previous freq. after freq. matching, then decelerate to stop and display trip info</li> </ul>	00	
B002	Allowable under-voltage power failure time	1.0	
B003	Retry wait time before motor restart	1.0	
B004	Instantaneous power failure / under-voltage trip alarm enable <ul style="list-style-type: none"> <li>• 00 Disable</li> <li>• 01 Enable</li> </ul>	00	
B005	Number of restarts on power failure / under-voltage trip event <ul style="list-style-type: none"> <li>• 00 Restart 16 times</li> <li>• 01 Always restart</li> </ul>	00	
B012/ B212	Level of electronic thermal setting	Rated current of each inverter	
B013/ B213	Electronic thermal characteristic <ul style="list-style-type: none"> <li>• 00 Reduced torque1</li> <li>• 01 Const. torque</li> <li>• 02 Reduced torque2</li> </ul>	01	
B021	Overload restriction operation mode <ul style="list-style-type: none"> <li>• 00 Disabled</li> <li>• 01 Enabled for accel and constant speed</li> <li>• 02 Enabled for constant speed only</li> </ul>	01	
B022	Overload restriction setting	Rated current x 1.5	

<b>Func. Code</b>	<b>Name / Description</b>	<b>Default Value -FEF / -FU</b>	<b>Set Value</b>
B023	Deceleration rate at overload restriction	1.0 / 30.0	
B031	Software lock mode selection <ul style="list-style-type: none"> <li>• 00 Low-level access, [SFT] blocks edits</li> <li>• 01 Low-level access, [SFT] blocks edits (except F001 and Multi-speed parameters)</li> <li>• 02 No access to edits</li> <li>• 03 No access to edits except F001 and Multi-speed parameters</li> </ul>	01	
B032	Reactive current setting	100.	
B080	[AM] analog signal gain	100.	
B082	Start frequency adjustment	0.5	
B083	Carrier frequency setting	5.0	
B084	Initialization mode (parameters or trip history) <ul style="list-style-type: none"> <li>• 00 Trip history clear</li> <li>• 01 Parameter initialization</li> <li>• 02 Trip history clear and parameter initialization</li> </ul>	00	
B085	Country code for initialization <ul style="list-style-type: none"> <li>• 00 Japan version    • 01 Europe version</li> <li>• 02 USA version</li> </ul>	01 / 02	
B086	Frequency scaling conversion factor	1.0	
B087	STOP key enable <ul style="list-style-type: none"> <li>• 00 Enable                • 01 Disable</li> </ul>	00	
B088	Restart mode after FRS <ul style="list-style-type: none"> <li>• 00 Restart from 0Hz</li> <li>• 01 Restart from frequency detected from actual speed of motor</li> </ul>	00	
B089	Monitor display select for networked inverter, 7 options: <ul style="list-style-type: none"> <li>• 01 Output frequency monitor</li> <li>• 02 Output current monitor</li> <li>• 03 Rotation direction monitor</li> <li>• 04 Process variable (PV), PID feedback monitor</li> <li>• 05 Intelligent input terminal status</li> <li>• 06 Intelligent output terminal status</li> <li>• 07 Scaled output frequency monitor</li> </ul>	01	
B091	Stop mode selection <ul style="list-style-type: none"> <li>• 00 DEC (decelerate and stop)</li> <li>• 01 FRS (free-run to stop)</li> </ul>	00	
B130	Over-voltage LADSTOP enable <ul style="list-style-type: none"> <li>• 00 Disable                • 01 Enable</li> </ul>	00	
B150	Carrier mode <ul style="list-style-type: none"> <li>• 00 Disable                • 01 Enable</li> </ul>	00	

## “C” Group: Intelligent Terminal Functions

Func. Code	Name / Description		Default Value -FEF / -FU	Set Value
C001	Terminal [1] function	Twenty-four option codes available (see page 23)	00	
C002	Terminal [2] function		01	
C003	Terminal [3] function		02 / 16	
C004	Terminal [4] function		03 / 13	
C005	Terminal [5] function		18 / 09	
C011	Terminal [1] active state	<ul style="list-style-type: none"> <li>• 00 Normally open [NO]</li> <li>• 01 Normally closed [NC]</li> </ul>	00	
C012	Terminal [2] active state		00	
C013	Terminal [3] active state		00	
C014	Terminal [4] active state		00 / 01	
C015	Terminal [5] active state		00	
C021	Terminal [11] function	Ten option codes available (see page 24)	01	
C022	Terminal [12] function		00	
C026	Alarm relay terminal function		05	
C028	[AM] signal selection	Two option codes available (see page 24)	00	
C031	Terminal [11] active state	<ul style="list-style-type: none"> <li>• 00 Normally open (NO)</li> <li>• 01 Normally closed (NC)</li> </ul>	00	
C032	Terminal [12] active state		00	
C036	Alarm relay terminal active state		01	
C041	Overload level setting		Rated current of inverter	
C042	Frequency arrival setting for accel		0.0	
C043	Arrival frequency setting for decel		0.0	
C044	PID deviation level setting		3.0	
C052	PID FBV function high limit		100.0	
C053	PID FBV function variable low limit		0.0	
C071	Communication speed selection <ul style="list-style-type: none"> <li>• 04 4800 bps</li> <li>• 05 9600 bps</li> <li>• 06 19200 bps</li> </ul>		06 / 04	
C072	Node allocation		1.	

Func. Code	Name / Description	Default Value -FEF / -FU	Set Value
C074	Communication parity selection • 00 No parity • 01 Even parity • 02 Odd parity	00	
C075	Communication stop bit selection	1	
C076	Communication error select • 00 Trip (error code E60) • 01 Decelerate to stop and trip (error code E60) • 02 Disable • 03 Free run stop (coasting) • 04 Decelerate to a stop	02	
C077	Communication error time-out	0.00	
C078	Communication wait time	0.	
C081	O input span calibration	100.0	
C082	OI input span calibration	100.0	
C085	Thermistor input tuning	100.0	
C086	[AM] terminal offset tuning	0.0	
C091	Debug mode enable • 00 Display                      • 01 No display	00	
C101	Up/Down memory mode selection • 00 Clear last frequency (return to default frequency F001) • 01 Keep last frequency adjusted by UP/DWN	00	
C102	Reset selection • 00 Cancel trip state at input signal ON transition, stops inverter if in Run Mode • 01 Cancel trip state at signal OFF transition, stops inverter if in Run Mode • 02 Cancel trip state at input signal ON transition, no effect if in Run Mode	00	
C141	Input A select for logic output	Nine option codes available (LOG excluded), see page 24	00
C142	Input B select for logic output		01
C143	Logic function select • 00 [LOG] = A AND B • 01 [LOG] = A OR B • 02 [LOG] = A XOR B	00	
C144	Terminal [11] ON delay	0.0	
C145	Terminal [11] OFF delay	0.0	
C146	Terminal [12] ON delay	0.0	

Func. Code	Name / Description	Default Value -FEF / -FU	Set Value
C147	Terminal [12] OFF delay	0.0	
C148	Output relay ON delay	0.0	
C149	Output relay OFF delay	0.0	

## “H” Group: Motor Constants Functions

Func. Code	Name / Description	Default Value -FEF / -FU	Set Value
H003/ H203	Motor capacity	Factory set	
H004/ H204	Motor poles setting <ul style="list-style-type: none"> <li>• 2 poles</li> <li>• 4 poles</li> <li>• 6 poles</li> <li>• 8 poles</li> </ul>	4	
H006/ H206	Motor stabilization constant	100	



## Intelligent Input Terminal Listing

Symbol	Code	Input Terminal Name
FW	00	Forward Run/Stop
RV	01	Reverse Run/Stop
CF1	02	Multi-speed select, Bit 0 (LSB)
CF2	03	Multi-speed select, Bit 1
CF3	04	Multi-speed select, Bit 2
CF4	05	Multi-speed select, Bit 3 (LSB)
JG	06	Jogging
DB	07	External DC braking
SET	08	Set (select) second motor data
2CH	09	2-stage accel and decel
FRS	11	Free-run stop
EXT	12	External trip
USP	13	Unattended start protection
SFT	15	Software lock
AT	16	Analog input voltage/current sel.
RS	18	Reset inverter
PTC	19	PTC thermistor thermal protection
STA	20	Start (3-wire interface)
STP	21	Stop (3-wire interface)
F/R	22	FWD, REV (3-wire interface)
PID	23	PID disable
PIDC	24	PID Reset
UP	27	Remote control Up func.
DWN	28	Remote control Down func.
UDC	29	Remote control data clearing
OPE	31	Operator control
ADD	50	Add frequency enable
F-TM	51	Force Terminal Mode
—	255	Not selected

## Intelligent Output Terminal Listing

Symbol	Code	Input Terminal Name
RUN	00	Run signal
FA1	01	Freq. arrival type 1 – constant speed
FA2	02	Freq. arrival type 2 – over-frequency
OL	03	Overload advance notice signal
OD	04	Output deviation for PID control
AL	05	Alarm signal
Dc	06	Analog input disconnect detect
FBV	07	PID second stage output
NDc	08	Network detection signal
LOG	09	Logic output function

## Analog Input Configuration

The following table shows the parameter settings and [AT] state required to select various analog input sources.

A005	[AT]	External Frequency Command Input
00	OFF	[O]
	ON	[OI]
01	(ignored)	Sum (O + OI)
02	OFF	[O]
	ON	Keypad potentiometer
03	OFF	[OI]
	ON	Keypad potentiometer

## Analog Output Function Listing

The following table shows the functions available for assignment to the analog output terminal via terminal [AM], option set by C028:

Option Code	Function Name	Description	Corresponding Signal Range
00	Analog freq. monitor	Actual motor speed	0 to max. freq. (Hz)
01	Analog current output monitor	Motor current (% of max. rated output current)	0 to 200%