

Variable Frequency Drive / Inverter

Starvert iG5

0.37 - 4.0kW (0.5 - 5.4HP) 1 and
3 phase 200-230Volts, 3 phase 380-460Volts



Automation Equipment



LG Industrial Systems

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**Compact iG5,
is the best for a small and cost
effective configuration.**

Standard features

- kW / Voltage Ratings:
 - 0.5 ~ 2HP, 200-230VAC, 1phase□
 - 0.5 ~ 5HP, 200-230VAC, 3phase□
 - 0.5 ~ 5HP, 380-460VAC, 3phase□
- Enclosure: IP00 ~ IP20
- Inverter Type: PWM with IGBT
- Control Method: Volts / Hertz with Space Vector Technology
- Built-in RS-485□
- Built-in ModBus-RTU □
- Built-in PID control
- Removable keypad (Able to read & write parameter)
- 150% torque at 0.5Hz
- Trip-free operation algorithm
- 8 preset speeds
- 3 jump(skip) frequencies
- 3 Multifunctional inputs
- 1 Multifunctional output
- Analog output (0~12V)
- PNP and NPN dual directional signals
- Speed search
- 3 wire operation
- 1 to 10 kHz carrier frequency
- Built-in Braking transistor
- Manual/Auto torque boost

Options

- Cable for Remote Keypad Operations(2,3 and 5 meters)□
- DIN rail base for easy installation

Application

- | | |
|---------------------------|------------------------------|
| ■ Converting□ | ■ Commercial washing machine |
| ■ Fan□ | ■ Grinder |
| ■ Pump | ■ Textile machine□ |
| ■ Food processing machine | ■ Material handling machine |
| ■ Electric shutter | ■ Centrifuge□ |
| ■ Dryer□ | ■ Elevator door□ |
| ■ Running machine | ■ Tooling machine |
| ■ Overheat | |

Conformity to global standards

- UL and cUL listed for North America
- CE marked for Europe
- Quality process controlled by ISO9001, ISO14000



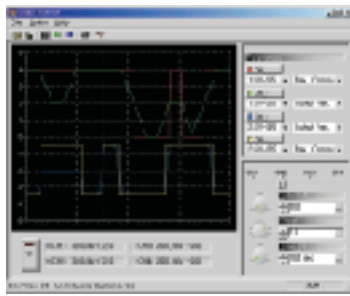
Reduced size

Enhancing its performance the iG5 shows much smaller size compares to the previous model, the iG series. Maximum 50% of total volume has been reduced in iG5 in order to mount it easily on smaller control panel and DIN rail with less weight. □ It allows more cost effective panel construction and system design.



Built-in communication interface and PC monitoring software

The iG5 has built-in the most popular communication interfaces such as Modbus-RTU and RS232/485. The iG5 has the small inverter features and standard medium drive features together. The "Driveview™" software offers Window® based computer monitoring tool through RS485 interface with graphic capture, keypad emulator, parameter edit and text monitor. It is applicable for all LG inverters.



RS - 485

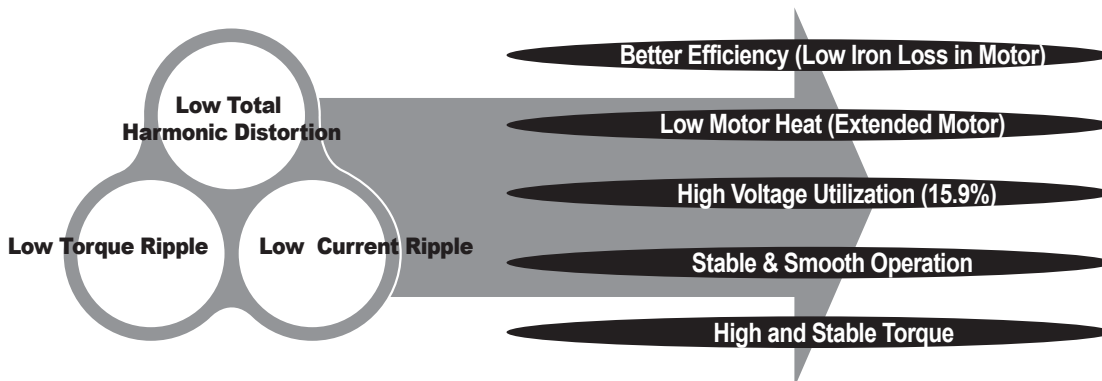
ModBus-RTU™

Built-in PID control

It is valuable in process control. The built-in PID controller controls flow, temperature, pressure, etc. through the proportional, integral and differential calculus between the feedback value and reference value in closed loop.

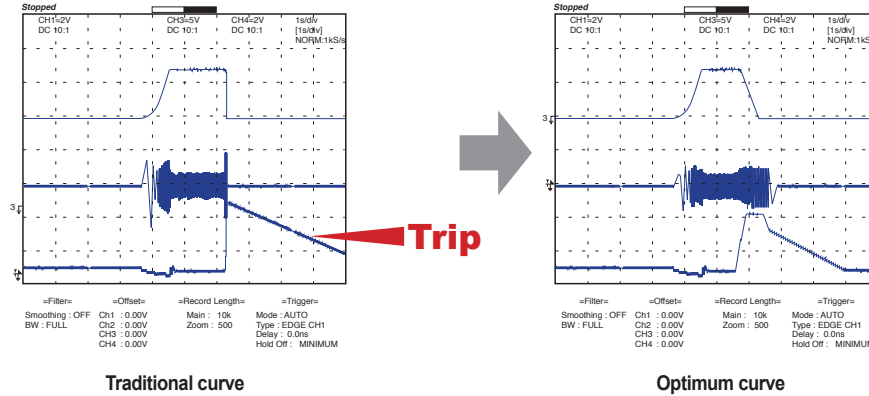
Space vector PWM technology

The Space vector technology is being adopted in all LG drives. It features outstanding performance in its control characteristics. It has low total harmonic distortion, low current ripple, low torque ripple, low motor temperature rise, and better voltage utilization. It is a basic control platform of the iG5 drive. The advantages of Space vector PWM technology are being proved in many applications.



Optimum acceleration and deceleration

To achieve a maximum torque during the acceleration and deceleration, "trip free" function is activated. □ The 32-bit DSP CPU monitors the current transition during the acceleration and deceleration to program an optimum curve that is under the trip-triggering level.



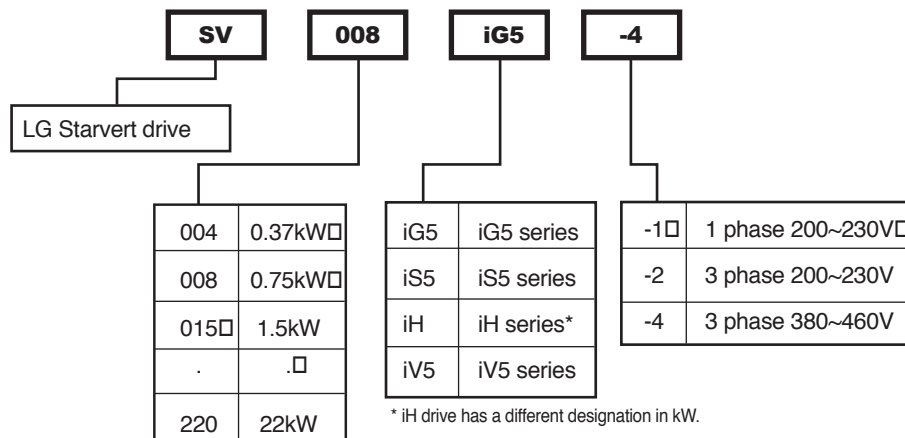
PNP and NPN switchable duals signals

The iG5 has both PNP and NPN signals in order to controlled by PLC or outside controller. Regardless the type of PLC or type of control signal, iG5 can work with positive 24Vdc and negative 24Vdc.

Inverter rating selection guide

Application motor		200~230V	200~230V	380~460V
kW	HP	1 phase	3 phase	3 phase
0.37	0.5	SV004iG5-1	SV004iG5-2	SV004iG5-4
0.75	1	SV008iG5-1	SV008iG5-2	SV008iG5-4
1.5	2	SV015iG5-1	SV015iG5-2	SV015iG5-4
2.2	3		SV022iG5-2	SV022iG5-4
3.7	5		SV037iG5-2	SV037iG5-4
4.0	5.4		SV040iG5-2	SV040iG5-4

Inverter type nomenclature



Specifications 200 ~230V Class(0.5~ 5.4 HP)

Drive Type (SV __ iG5-)		004-1	008-1	015-1	004-2	008-2	015-2	022-2	037-2	040-2
Motor Rating ^{*1)}	[HP]	0.5	1	2	0.5	1	2	3	5	5.4
	[kW]	0.37	0.75	1.5	0.37	0.75	1.5	2.2	3.7	4
Output ratings	Capacity[kVA] ^{*2)}	1.1	1.9	3	1.1	1.9	3	4.5	6.1	6.5
	FLA[A]	3	5	8	3	5	8	12	16	17
	Frequency					0 ~ 400 Hz ^{*3)}				
Input ratings	Voltage	1 phase 200 ~ 230 V(±10%)				3 phase 200 ~ 230 V(±10%)				
	Frequency	50 ~ 60 Hz (±5%)				50 ~ 60 Hz (±5%)				
Weight[kg]		1.2	1.8	2.1	1.2	1.2	1.8	2.1	2.2	2.2
Braking torque	Braking circuit					On board				
	Average braking torque					20% (with optional external braking resistor : 100%, 150%)				
	Max. continuous braking time					15 seconds				
	Max. duty					0 ~ 30 % ED				
Cooling method		Forced air cooling			Natural	Forced air cooling				
Enclosure		IP00								

Specifications 380 ~460V Class(0.5~ 5.4 HP)

Drive Type (SV __ iG5-)		004-4	008-4	015-4	022-4	037-4	040-4
Motor Rating ^{*1)}	[HP]	0.5	1	2	3	5	5.4
	[kW]	0.37	0.75	1.5	2.2	3.7	4
Output ratings	Capacity[kVA] ^{*2)}	1.1	1.9	3	4.5	6.1	6.5
	FLA[A]	1.1	2.5	4	6	8	9
	Frequency	0 ~ 400 Hz ^{*3)}					
Input ratings	Voltage	380 ~ 460V ^{*3)}					
	Frequency	3 phase 380 ~ 460 V(±10%) 50 ~ 60 Hz (±5%)					
Weight[kg]	Weight [kg]	1.7	1.7	1.8	2.1	2.2	2.2
Braking torque	Braking circuit	On board					
	Average braking torque	20% (with optional external braking resistor : 100%, 150%)					
	Max. continuous braking time	15 seconds					
	Max. duty	0 ~ 30 % ED					
Cooling method		Forced air cooling					
Enclosure		IP00					

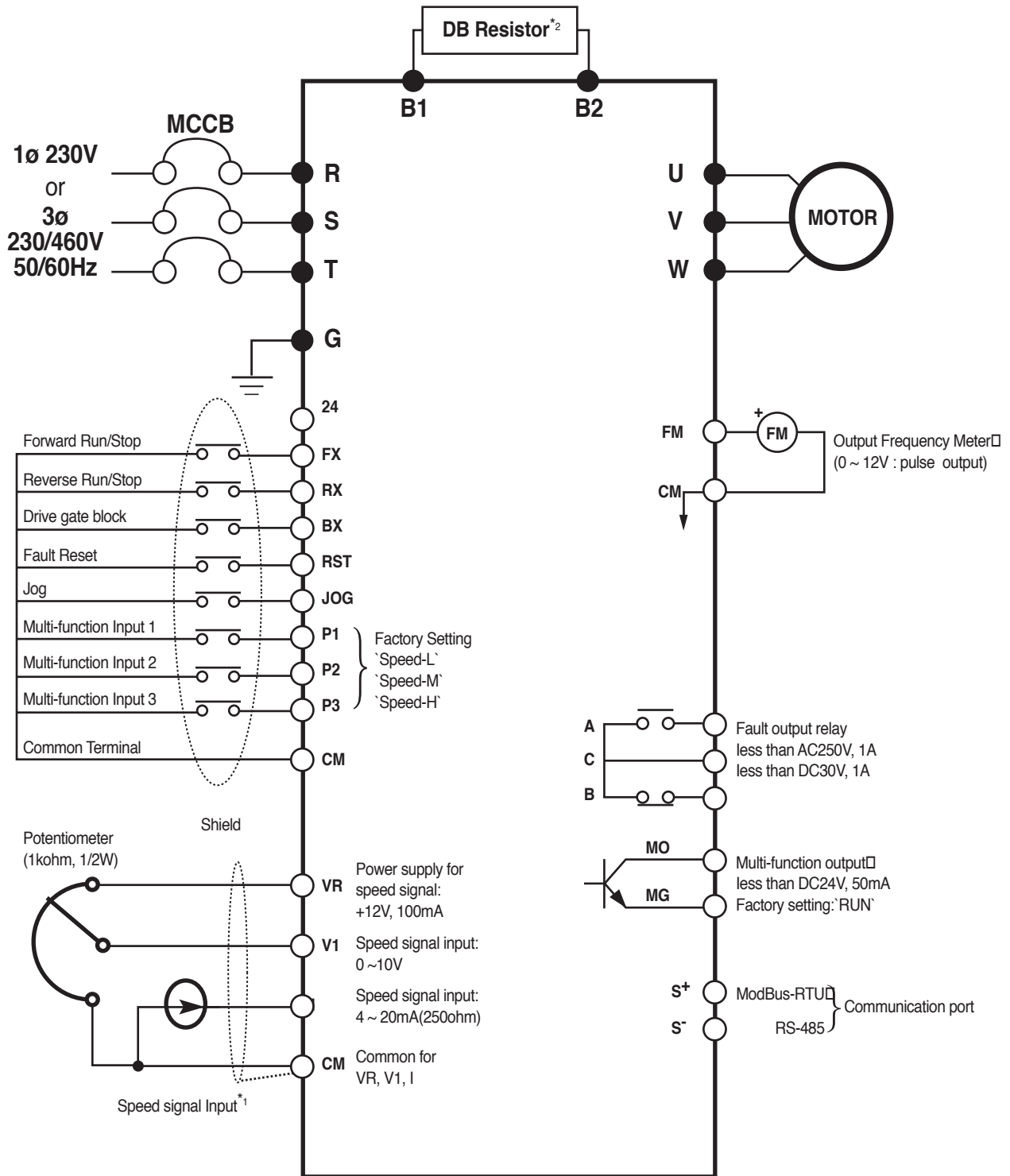
*1) Indicates the maximum applicable capacity when using 4 pole LG standard motor.

*2) Rated capacity (√3V³) is based on 220V for 200V class and 440V for 400V class.

*3) Maximum output voltage will not be greater than the input voltage. Output voltage less than the input voltage can be set.

Control	Control method	V/F control	
	Frequency setting resolution	Digital reference : 0.01 Hz (below 100 Hz), 0.1 Hz (over 100 Hz) Analog reference : 0.03 Hz / 50 Hz	
	Frequency accuracy	Digital : 0.01% of max. output frequency Analog : 0.1% of max. output frequency □	
	V/F ratio	Linear, Square pattern, User V/F □	
	Overload capacity	150 % of rated current for 1 min., 200% of rated current for 0.5 sec. (characteristic is inversely proportional to time)	
	Torque boost	Manual torque boost (0 ~ 15 %), Auto torque boost	
Operation	Operation method	Keypad / terminal / communication operation	
	Frequency setting	Analog : 0 ~ 10V / 4 ~ 20 mA Digital : keypad	
	Start signal	Forward, Reverse	
	Multi-step	Up to 8 speeds can be set (use multi-function terminal)	
	Multi-step accel/decel time	0 ~ 6,000 sec, up to 8 types can be set and selected for each setting (use the multi- function terminal), Accel/Decel pattern : linear pattern, U pattern, S pattern, Optimum, Minimum	
	Emergency stop	Interrupts the output of the drive □	
	Jog	Jog operation	
	Fault reset	Resets fault when protective function is active	
	Operation status	Frequency level detection, Overload alarm, stalling, overvoltage, undervoltage, drive overheating, running, stop, constant speed, speed searching	
	Fault output	Contact output (30A,30C,30B) - AC250V 1A, DC30V 1A	
Indicator	Choose 1 from : output frequency, output current, output voltage, DC voltage (Output pulse: 500Hz, Output voltage: 0 ~ 10V)		
Operation function	DC braking, frequency limit, frequency jump, second function, slip compensation, reverse rotation prevention, auto restart, PID control		
Protective function	Drive trip	Overvoltage, undervoltage, overcurrent, drive overheating, motor over heating, input/output phase loss, input/output mis-wiring, overload protection, communication error, loss of speed command, hardware fault.	
	Inverter alarm	Stall prevention, overload alarm	
	Momentary power loss	Less than 15 msec : continuous operation, more than 15 msec : auto restart possible	
Display Keypad	Operation information	Output frequency, output current, output voltage, frequency value setting, operating speed, DC voltage	
	Trip information	Indicates the fault when the protection function activates, memorizes up to 5 faults	
Environment	Ambient temperature	-10 °C ~ 40 °C	
	Storage temperature	-20 °C ~ 65 °C	
	Ambient humidity	90 % RH max. (Non condensing)	
	Altitude . Vibration	Below 1,000 m · below 5.9m/sec ² (=0.6g)	
	Application site	No corrosive gas, combustible gas, oil mist, or dust	

Wiring



Note) "●" display main circuit terminals, "○" display control circuit terminals.
 1. Analog speed command can be set by Voltage, Current and both of them.
 2. DB resistor is optional.

Power terminal configuration

Symbol	Function
R S T U V W	AC Line input (1 phase 200~230 Vac for "-1" units 3 phase, 200~230 Vac for "-2" units and 380~460 Vac for "-4" units)
B1 B2	3 phase output terminals to motor
B1 B2	External additional dynamic braking resistor connection terminals.
G	Chassis ground (The ground terminal("G") may be located on heat sink instead of terminal strip depend on the model name)

Control terminal configuration

Type	Symbol	Name	Description
Input signal	Starting Contact Function Slection	P1, P2, P3	Multi function input 1,2,3 Used for multi function input. Factory default is set to step frequency 1, 2, 3.
		FX	Forward run command Forward run when closed and stop when opened.
		RX	Reverse run command Reverse run when closed and stop when opened.
		JOG	Jog frequency reference Runs at jog frequency when the jog signal is on. The direction is set by the FX (or RX) signal.
		BX	Drive gate block When the BX signal is ON, the output of the drive is cut off. When the motor uses an mechanical brake to stop, BX is used to cut off the output signal. When the BX signal, which does not cut off by latching, is OFF and the FX signal (or the RX signal) is ON, the motor keeps running, so be cautious.
	Analog Frequency Setting	RST	Fault reset Used to release the protective status when the protective circuit is active.
		CM	Sequence common Used for the common terminal for contact input terminals.
		VR	Frequency setting power(+12V) Used as power for the analog frequency setting. Maximum output is +12V, 100mA.
		V1	Frequency reference (Voltage) Used for frequency reference and uses 0-10V for input. Input resistance is 20 kΩ
		I	Frequency reference(Current) Used for frequency reference and uses DC 4-20mA for input. Input resistance is 250Ω
Output signal	Pulse	FM*CM	Analog/digital output (For external monitoring) Outputs one of the followings: output frequency, output current, output voltage, DC link voltage. Factory default is set to output frequency. Maximum output voltage and output current is 0-12V, 1mA. Output frequency is set to 500Hz.
		30A, 30C, 30B	Fault contact output Activates when the protective function is operating. AC250V 1A or less, DC30V 1A or less Fault : 30A-30C short (30B-30C open) Nomal : 30A-30C short (30B-30C open)
	Contact	MO*MG	Multi-function output (Open collector output) Used for multi-function output
		RS232	S+, S-

Keypad



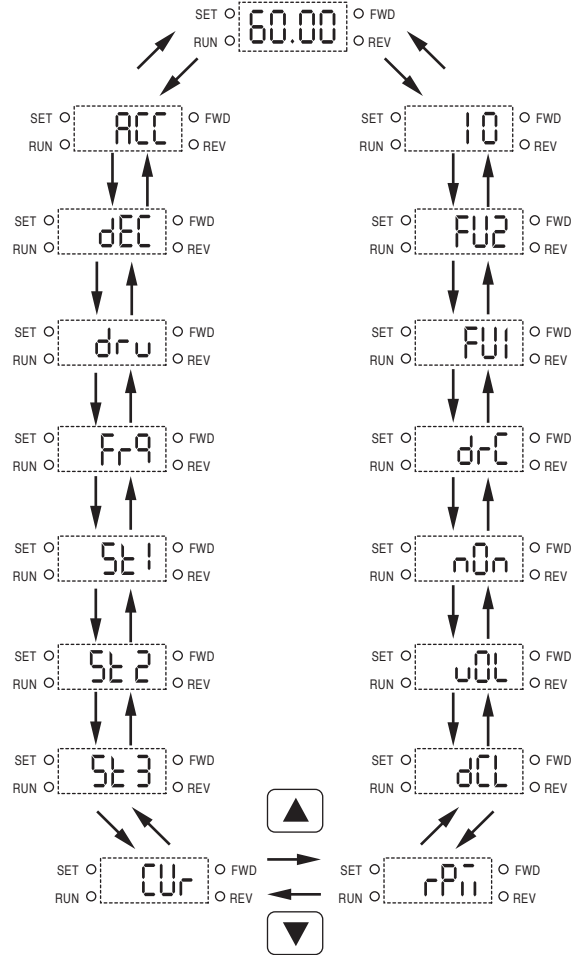
Class	Display	Name	Description
KEY		FUNC	Program key Press to change the parameter setting.
	▲	UP	Up key Press to move through codes or to increase the parameter values.
	▼	DOWN	Down key Press to move through codes or to decrease the parameter values.
		RUN	Run key Use to operate the drive
		STOP/RESET	STOP/RESET key Press to stop during operation. Press to reset when a fault has occurred.
LED		REV	Reverse run □ During reverse run.
		FWD	Forward run During forward run.
		SET	Setting When the user is setting the parameters using the FUNC key
		RUN	Operating When in constant speed and blinks when accelerating or decelerating.

Parameter group

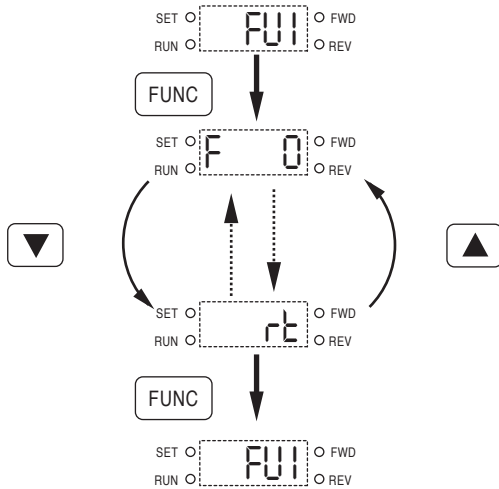
Group name	Description
Drive Group	Basic parameters of Command frequency, Accel/Decel time etc.
Function 1 Group	Basic parameters of Max. Frequency, Torque boost etc.
Function 2 Group	Application parameters of Frequency jump, Frequency limit etc.
Input / Output Group	Multifunction terminal setting and Sequence operation parameters

Parameter navigation

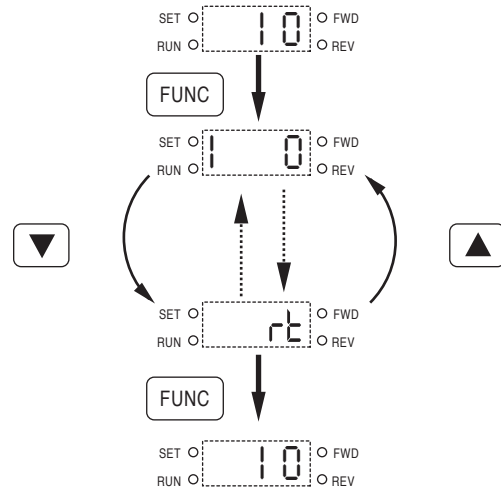
1. Drive Group



2. Function Group



3. I/O Group



Program parameter descriptions

1. Drive Group [DRV]

Code	Description	Keypad Display	Setting Range	Units	Factory Default	Adjustable during run
DRV-00	Output Frequency during running, Reference Frequency during stop	0.00	0 to Max. Freq. (FU1-20)	0.01	60.00 [Hz]*	Yes
DRV-01	Acceleration Time	ACC	0 to 6000 [sec]	0.1	10.0 [sec]	Yes
DRV-02	Deceleration Time	dEC	0 to 6000 [sec]	0.1	10.0 [sec]	Yes
DRV-03	Drive Mode (Run/Stop method)	d-r-u	0 (Keypad-2) 1 (Keypad-2) 2 (Fx/Rx-2) 3 (ModBus-RTU)	-	1	No
DRV-04	Frequency Mode (Freq. setting method)	Fr-9	0 [Keypad-1] 1 (Keypad-2) 2 (V1) 3 (I) 4 (V1+I) 5 (ModBus-RTU)	-	0	No
DRV-05	Step Frequency 1	St 1	Starting freq (FU1-22) to Max. freq (FU1-20)	0.01	10.00 [Hz]	Yes
DRV-06	Step Frequency 2	St 2		0.01	20.00 [Hz]	
DRV-07	Step Frequency 3	St 3		0.01	30.00 [Hz]	
DRV-08	Output Current	CUr	* [A]	-	- [A]	-
DRV-09	Motor Speed	rPn	* [rpm]	-	- [rpm]	-
DRV-10	DC link Voltage	dCL	* [V]	-	- [V]	-
DRV-11	User Display selection	uDL.PGr.tDr	Selected in FU2-73 (User disp)	-	-	-
DRV-12	Fault Display	nOn	-	-	nOn	-
DRV-13	Motor Direction set	d-r-C	F (Forward) r (Reverse)	-	F	Yes
DRV-20	FU1 Group selection	FU1				
DRV-21	FU2 Group selection	FU2				
DRV-22	I/O Group selection	I/O				

2. Function Group1[FU1]

FU1-00	Jump to desired code #	F0	1 to 99	1	3	Yes
FU1-03	Run Prevention	F3	0 (None) 1 (Forward Prev) 2 (Reverse Prev)		0	No
FU1-05	Acceleration Pattern	F5	0 (Linear) 1 (S-curve) 2 (U-curve) 3 (Minimum) 4 (Optimum)		0	No
FU1-06	Deceleration Pattern	F6	0 (Linear) 1 (S-curve) 2 (U-curve) 3 (Minimum) 4 (Optimum)		0	No
FU1-07	Stop Mode	F7	0 (Decel) 1 (DC-brake) 2 (Free-run)		0	No
FU1-08	DC Injection Braking Frequency	F8	FU1-22 to 50 [Hz]	0.01	5.00 [Hz]	No□
FU1-09	DC Injection Braking On-delay Time	F9	0 to 60 [sec]	0.01	0.5 [sec]	No□
FU1-10	DC Injection Braking Voltage	F10□	0 to 200 [%]	1	50 [%]	No□
FU1-11	Starting DC Injection Braking Time	F11	0 to 60 [sec]	0.1	1.0 [sec]	No□
FU1-12	Starting DC Injection Braking Voltage	F12	0 to 200 [%]	1	50 [%]	No□
FU1-13	Starting DC Injection Braking Time	F13	0 to 60 [sec]	0.1	0.0 [sec]	No□
FU1-20	Maximum Frequency	F20	40 to 400 [Hz]	0.01	60.00 [Hz]*	No□
FU1-21	Base Frequency	F21	30 to FU1-20	0.01	60.00 [Hz]*	No□
FU1-22	Starting Frequency	F22	0.1 to 10 [Hz]	0.01	0.50 [Hz]	No□
FU1-23	Frequency Limit selection	F23	0 (No) 1 (Yes)	-		No□ □
FU1-24	Low Limit Frequency	F24	FU1-22 to FU1-25	0.01	0.50 [Hz]	No□
FU1-25	High Limit Frequency	F25	FU1-24 to FU1-20	0.01□	60.00 [Hz]*	No□
FU1-26	Manual/Auto Torque Boost selection	F26	0 (Manual) 1 (Auto)	-□ □	0	No□
FU1-27	Torque Boost in Forward Direction	F27	0 to 15 [%]	0.1□	5.0 [%]	No□
FU1-28	Torque Boost in Reverse Direction	F28	0 to 15 [%]	0.1	5.0 [%]□	No□
FU1-29	Volts/Hz Pattern	F29	0 (Linear) 1 (Square) 2 (User V/F)	-	0□ □ □	No□ □ □
FU1-30	User V/F - Frequency 1	F30	0 to FU1-32	0.01	15.00 [Hz]*	No□
FU1-31	User V/F - Voltage 1	F31	0 to 100 [%]□	1□	25 [%]□	No□
FU1-32	User V/F - Frequency 2	F32	FU1-30 to FU1-20	0.01□	30.00 [Hz]*□	No□
FU1-33	User V/F - Voltage 2	F33	0 to 100 [%]□	1□	50 [%]□	No□
FU1-34	User V/F - Frequency 3	F34□	FU1-32 to FU1-20	0.01□	45.00 [Hz]* □	No□
FU1-35	User V/F - Voltage 3	F35□	0 to 100 [%]	1□	75 [%]□	No□
FU1-36	User V/F - Frequency 4	F36□	FU1-34 to FU1-20	0.01□	60.00 [Hz]*□	No□
FU1-37	User V/F - Voltage 4	F37□	0 to 100 [%] □	1□	100 [%]□	No□
FU1-38	Output Voltage Adjustment	F38□	40 to 110 [%] □	0.1□	100[%]□	No□
FU1-39	Energy Save Level F39	F39□	0 to 30 [%]	1□	0 [%]□	Yes□
FU1-50	Electronic Thermal selection	F50	0 (No) 1 (Yes)	-	0	Yes□ □
FU1-51	Electronic Thermal Level for 1 minute	F51	FU1-52 to 150 [%]	1	150 [%]□	Yes□
FU1-52	Electronic Thermal Level for continuous	F52	50 to FU1-51	1	150 [%]	Yes□
FU1-53	Electronic Thermal Characteristic selection (Motor type)	F53	0 (Self-cool) 1 (Forced-cool)	-	0	Yes

Code	Description	Keypad Display	Setting Range	Units	Factory Default	Adjustable during run
FU1-54	Overload Warning Level	F54	30 to 150 [%]	1	150 [%]	Yes
FU1-55	Overload Warning Hold Time	F55	0 to 30 [sec]	0.1	10.0 [sec]	Yes
FU1-56	Overload Trip selection	F56	0 (No) 1 (Yes)	- 0	1 0	Yes 0
FU1-57	Overload Trip level	F57	30 to 200 [%]	1	180 [%]	Yes
FU1-58	Overload Trip Delay Time	F58	0 to 60 [sec]	1	60.0 [sec]	
FU1-59	Stall Prevention Mode selection	F59	000 - 111 (bit set) Bit 0: during Accel. Bit 1: during Steady speed Bit 2: during Decel.	bit	000	No
FU1-60	Stall Prevention Level	F60	30 to 150 [%]	1	150 [%]	No
FU1-99	Return Code	rE		-	-	-

3. Function Group2 [FU2]

FU2-00	Jump to desired code #	H0	1 to 99	1	30	Yes
FU2-01	Previous Fault History 1	H1	-	-	0	Yes
FU2-02	Previous Fault History 2	H2			nOn	Yes
FU2-03	Previous Fault History 3	H3			nOn	0
FU2-04	Previous Fault History 4	H4			nOn	Yes
FU2-05	Previous Fault History 5	H5			nOn	
FU2-06	Erase Fault History	H6	0 (No) 1 (Yes)	- 0	0	Yes
FU2-07	Dwell Frequency	H7	0 to FU1-20	0.01	5.00 [Hz]	No
FU2-08	Dwell Time	H8	0 to 10 [sec]	0.1	0.0 [sec]	No
FU2-10	Frequency Jump selection	H10	0 (No) 1 (Yes)	- 0	0	No 0
FU2-11	Jump Frequency 1 Low	H11	FU1-22 to FU2-12	0.01	0.00 [Hz]	No
FU2-12	Jump Frequency 1 High	H12	FU1-11 to FU2-20	0.01	0.00 [Hz]	No
FU2-13	Jump Frequency 2 Low	H13	FU1-22 to FU2-14	0.01	0.00 [Hz]	No
FU2-14	Jump Frequency 2 High	H14	FU2-13 to FU1-20	0.01	0.00 [Hz]	No
FU2-15	Jump Frequency 3 Low	H15	FU1-22 to FU2-16	0.01	0.00 [Hz]	No
FU2-16	Jump Frequency 3 High	H16	FU2-15 to FU1-20	0.01	0.00 [Hz]	No
FU2-19	Input/Output Phase Loss Protection	H19	00 - 11 (bit set) Bit 0: Output phase loss protection Bit 1: Input phase loss protection	-	00	Yes
FU2-20	Power ON Start selection	H20	0 (No) 1 (Yes)	- 0	0	Yes
FU2-21	Restart after Fault Reset	H21	0 (No) 1 (Yes)	- 0	0	Yes
FU2-22	Speed Search selection	H22	0000 - 1111 (bit set) Bit 0: during Accel. Bit 1: after fault reset Bit 2: after instant power failure restart Bit 3: when FU2-20 is set to 1 (Yes).	- 0 0 0 0	0000 0 0 0 0	No 0 0 0 0
FU2-23	Current Limit Level during Speed Search	H23	80 to 200 [%]	1	100 [%]	Yes
FU2-24	P Gain during Speed Search	H24	0 to 9999	1	1000	Yes
FU2-25	I Gain during speed search	H25	0 to 9999	1	1000	Yes
FU2-26	Number of Auto Restart Attempt	H26	0 to 10	1	0	Yes
FU2-27	Delay Time before Auto Restart	H27	0 to 60 [sec]	0.1	1.0 [sec]	Yes
FU2-30	Rated Motor selection	H30	0.4 (0.37kW) 0.8 (0.75kW) 1.5 (1.5kW) 2.2 (2.2kW)	- 0	0 0	No 0
FU2-31	Number of Motor Poles	H31	2 to 12	1	4	No
FU2-32	Rated Motor Slip	H32	0 to 10 [Hz]	0.01	0	No
FU2-33	Rated Motor Current in RMS	H33	0.1 to 99.9 [A]	1	0	No
FU2-34	No Load Motor Current in RMS	H34	0.1 to 99.9 [A]	1	0	No
FU2-36	Motor Efficiency	H36	50 to 100 [%]	1	0	No
FU2-37	Load Inertia	H37	0 to 20	1	0	No
FU2-39	Carrier Frequency	H39	1 to 10 [kHz]	1	3 kHz	Yes
FU2-40	Control Mode selection	H40	0 (V/F) 1 (Slip Compen) 2 (PID)	- 0 0	0 0 0	No 0 0
FU2-50	PID Feedback Signal selection	H50	0 (I) 1 (V1)	- 0	0 0	No 0
FU2-51	P Gain for PID Control	H51	0 to 9999	1	3000	Yes
FU2-52	I Gain for PID Control	H52	0 to 9999	1	300	Yes
FU2-53	D Gain for PID Control	H53	0 to 9999	1	0	Yes
FU2-54	Limit Frequency for PID Control	H54	0 to FU1-20	0.01	60.0 [Hz]	Yes
FU2-70	Reference Frequency for Accel and Decel	H70	0 (Max Freq) 1 (Delta Freq)	- 0	0 0	No 0
FU2-71	Accel/Decel Time Scale	H71	0 (0.01 sec) 1 (0.1 sec) 2 (1 sec)	- 0 0	1 0 0	Yes 0 0
FU2-72	Power On Display	H72	0 (Cmd. Freq) 1 (Acc. Time) 2 (Dec. Time) 3 (Drv mode) 4 (Freq mode) 5 (Step Freq 1) 6 (Step Freq 2) 7 (Step Freq 3) 8 (Current) 9 (Speed) 10 (DC link Vtg) 11 (User disp) 12 (Fault Display) 13 (Motor direction)	1	0	Yes

Code	Description	Keypad Display	Setting Range	Units	Factory Default	Adjustable during run
FU2-73 □	User Display selection□	H73□	0 (Voltage)	-□	0□	Yes□
□	□	□	1 (Watt)	□	□	□
□	□	□	2 (Torque)□	□	□	□
FU2-74 □	Gain for Motor Speed Display□	H74□	1 to 1000 [%]□	1□	100 [%]□	Yes□
FU2-75 □	DB(Dynamic Braking)Resistor Mode selection□	H75□	0 [None]	-□	0□	Yes□
□	□	□	1 [None]	□	□	□
□	□	□	2 (Ext.DB-R)	□	□	□
FU2-76 □	Duty of Dynamic Braking Resistor □	H76□	0 to 30 [%]□	1□	10 [%]□	Yes□
FU2-79 □	Software Version□	H79□		-□	□ □ E□	-□
FU2-81 □	2nd Acceleration Time □	H81□	0 to 6000 [sec]□	0.1□	5.0 [sec] □	Yes□
FU2-82 □	2nd Deceleration Time□	H82□	0 to 6000 [sec]□	0.1□	10.0 [sec]□	Yes□
FU2-83 □	2nd Base Frequency□	H83□	30 to FU1-20□	0.01□	60.00 [Hz]* □	No□
FU2-84 □	2nd V/F Pattern□	H84□	0 (Linear) □	-□	0□	No□
□	□	□	1 (Square) □	□	□	□
□	□	□	2 (User V/F)□	□	□	□
FU2-85 □	2nd Forward Torque Boost□	H85□	0 to 15 [%] □	0.1□	5.0 [%]□	No□
FU2-86 □	2nd Reverse Torque Boost□	H86□	0 to 15 [%] □	0.1□	5.0 [%]□	No□
FU2-87 □	2nd Stall Prevention Level□	H87□	30 to 150 [%]□	1□	150 [%]□	No□
FU2-88 □	2nd Electronic Thermal Level for 1 minute□	H88□	FU2-89 to 150 [%]□	1□	150 [%]□	Yes□
FU2-89 □	2nd Electronic Thermal Level for continuous□	H89□	50 to FU2-88(maximum 150%) □	1□	100 [%]□	Yes□
FU2-90 □	2nd Rated Motor Current□	H90□	0.1 to 99.9 [A]□	0.1□	1.8 [A]□	No□
FU2-91 □	Read Parameters into Keypad from Inverter□	H91□	0 (No) □	-□	0□	No□
□	□	□	1 (Yes)□	□	□	□
FU2-92 □	Write Parameters to Inverter from Keypad□	H92□	0 (No) □	-□	0□	No□
□	□	□	1 (Yes)□	□	□	□
FU2-93 □	Initialize Parameter□	H93□	0 (No)	-□	0□	No□
□	□	□	1 (All Groups)	□	□	□
□	□	□	2 (DRV)	□	□	□
□	□	□	3 (FU1)	□	□	□
□	□	□	4 (FU2)	□	□	□
□	□	□	5 (I/O)□	□	□	□
FU2-94 □	Parameter Write Protection□	H94□	0 to 255	1□	0□	Yes□
FU2-99 □	Return Code	r t		-□	1	Yes

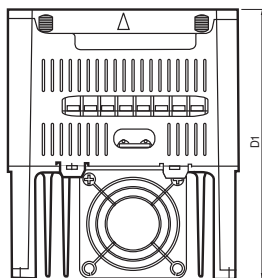
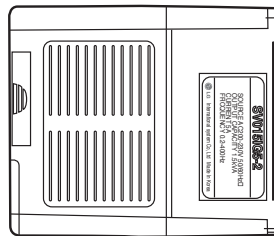
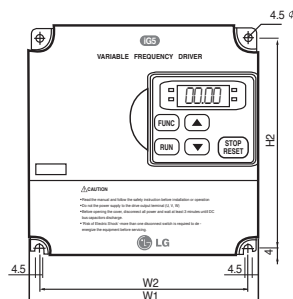
4. Input / Output Group [I/O]

Code	Description	Keypad Display	Setting Range	Units	Factory Default	Adjustable during run
I/O-00 □	Jump to desired code #□	! 0□	1 to 99□	1□	1□	Yes□
I/O-01 □	Filtering Time Constant for V1 Signal Input□	! 1	0 to 9999 [ms]□	1□	1,000 [ms] □	Yes□
I/O-02 □	V1 Input Minimum Voltage□	! 2□	0 to I/O-04□	0.01□	0.00 [V] □	Yes□
I/O-03 □	Frequency corresponding to V1 Input Minimum Voltage□	! 3□	0 to FU1-20□	0.01□	0.00 [Hz]□	Yes□
I/O-04 □	V1 Input Maximum Voltage□	! 4□	I/O-02 to 10 [V]□	0.01□	10.00 [V]□	Yes□
I/O-05 □	Frequency corresponding to V1 Input Maximum Voltage□	! 5□	0 to FU1-20□	0.01□	60.00 [Hz]* □	Yes□
I/O-06 □	Filtering Time Constant for I Signal Input□	! 6□	0 to 9999 [ms]□	1□	1,000 [ms]□	Yes□
I/O-07 □	I Input Minimum Current□	! 7□	0 to I/O-09□	0.01□	4.00 [mA] □	Yes□
I/O-08 □	Frequency corresponding to I Input Minimum Current□	! 8□	0 to FU1-20□	0.01□	0.00 [Hz]□	Yes□
I/O-09 □	I Input Maximum Current□	! 9□	I/O-07 to 20 [mA]□	0.01□	20.00 [mA] □	Yes□
I/O-10 □	Frequency corresponding to I Input Maximum Current□	! 10□	0 to FU1-20□	0.01□	60.00 [Hz]* □	Yes□
I/O-11 □	Criteria for Analog Input Signal Loss□	! ! !	0 (None)	-□	0□	Yes□
□	□	□	1 (Half of x1)	□	□	□
□	□	□	2 (Below x1)□	□	□	□
I/O-12 □	Multi-function Input Terminal 'P1' define□	! ! 2□	0 (Speed-L)	-□	0□	No□
□	8,9, 15, 20, 21, 22, 23, 24, 25, 26(-Reserved-)□	□	1 (Speed-M)	□	□	□
□	□	□	2 (Speed-H)	□	□	□
□	□	□	3 (XCEL-L)	□	□	□
□	□	□	4 (XCEL-M)	□	□	□
□	□	□	5 (XCEL-H)	□	□	□
□	□	□	6 (Dc-brake)	□	□	□
□	□	□	7 (2nd Func)	□	□	□
□	□	□	10 (Up)	□	□	□
□	□	□	11 (Down)	□	□	□
□	□	□	12 (3-Wire)	□	□	□
□	□	□	13 (Ext trip-A)	□	□	□
□	□	□	14 (Ext trip-B)	□	□	□
□	□	□	16 (Open-loop)	□	□	□
□	□	□	17 (Main-drive)	□	□	□
□	□	□	18 (Analog hold)	□	□	□
□	□	□	19 (XCEL stop) □	□	□	□
I/O-13 □	Multi-function Input Terminal 'P2' define□	! ! 3□	Same as above□	-□	1□	No
I/O-14 □	Multi-function Input Terminal 'P3' define□	! ! 4□	Same as above□	-□	2□	No
I/O-15 □	Terminal Input Status□	! ! 5□	00000000 - 11111111 (bit set)□	-□	-□	-□
I/O-16 □	Terminal Output Status□	! ! 6□	0 - 1 (bit set)	-□	-□	-□
I/O-17 □	Filtering Time Constant for Multi-function Input Terminals□	! ! 7□	2 to 50□	1□	15□	Yes□
I/O-20 □	Jog Frequency setting□	! 20□	FU1-22 to FU1-20□	0.01□	10.00 [Hz] □	Yes□
I/O-21 □	Step Frequency 4 □	! 21	FU1-22 to FU1-20□	0.01□	40.00 [Hz] □	Yes□
I/O-22 □	Step Frequency 5 □	! 22□	FU1-22 to FU1-20□	0.01□	50.00 [Hz]□	Yes□
I/O-23 □	Step Frequency 6□	! 23□	FU1-22 to FU1-20□	0.01□	40.00 [Hz]□	Yes□
I/O-24 □	Step Frequency 7□	! 24□	FU1-22 to FU1-20□	0.1□	30.00 [Hz]□	Yes□
I/O-25 □	Acceleration Time 1 for Step Frequency□	! 25□	0 to 6000 [sec]□	0.1□	20.0 [sec]□	Yes□
I/O-26 □	Deceleration Time 1 for Step Frequency□	! 26□	0 to 6000 [sec]□	0.1	20.0 [sec]□	Yes□
I/O-27 □	Acceleration Time 2□	! 27□	0 to 6000 [sec]□	0.1□	30.0 [sec]□	Yes□
I/O-28 □	Deceleration Time 2□	! 28□	0 to 6000 [sec]□	0.1	30.0 [sec] □	Yes□
I/O-29 □	Acceleration Time 3□	! 29□	0 to 6000 [sec]□	0.1□	40.0 [sec]□	Yes□
I/O-30 □	Deceleration Time 3	! 30□	0 to 6000 [sec]	0.1	40.0 [sec]	Yes□

Code	Description	Keypad Display	Setting Range	Units	Factory Default	Adjustable during run
I/O-31	Acceleration Time 4	31	0 to 6000 [sec]	0.1	50.0 [sec]	Yes
I/O-32	Deceleration Time 4	32	0 to 6000 [sec]	0.1	50.0 [sec]	Yes
I/O-33	Acceleration Time 5	33	0 to 6000 [sec]	0.1	40.0 [sec]	Yes
I/O-34	Deceleration Time 5	34	0 to 6000 [sec]	0.1	40.0 [sec]	Yes
I/O-35	Acceleration Time 6	35	0 to 6000 [sec]	0.1	30.0 [sec]	Yes
I/O-36	Deceleration Time 6	36	0 to 6000 [sec]	0.1	30.0 [sec]	Yes
I/O-37	Acceleration Time 7	37	0 to 6000 [sec]	0.1	20.0 [sec]	Yes
I/O-38	Deceleration Time 7	38	0 to 6000 [sec]	0.1	20.0 [sec]	Yes
I/O-40	FM (Frequency Meter) Output selection	40	0 (Frequency)	-	0	Yes
			1 (Current)			
			2 (Voltage)			
			3 (DC link Vtg)			
I/O-41	FM Output Adjustment	41	10 to 200 [%]	1	100 [%]	Yes
I/O-42	Frequency Detection Level	42	0 to FU1-20	0.01	30.00 [Hz]	Yes
I/O-43	Frquency Detection Bandwidth	43	0 to FU1-20	0.01	10.00 [Hz]	Yes
I/O-44	Multi-function Output define (MO)15, 16, 18, 19, 20(-Reserved)	44	0 (FDT-1)	-	12	Yes
			1 (FDT-2)			
			2 (FDT-3)			
			3 (FDT-4)			
			4 (FDT-5)			
			5 (IOL)			
			6 (IOL)			
			7 (Stall)			
			8 (OV)			
			9 (LV)			
			10 (OH)			
			11 (Lost Command)			
			12 (Run)			
			13 (Stop)			
			14 (Steady)			
			17 (Search)			
I/O-45	Fault Output Relay setting (30A, 30B, 30C)	45	000 - 111 (bit set)	-	010	Yes
			Bit 0: LV Bit 1: All Trip			
			Bit 2: Auto retry			
I/O-46	Inverter Number	46	1 to 32	1	1	Yes
I/O-47	Baud Rate I47	47	0 (1200 bps)	-	3	Yes
			1 (2400 bps)			
			2 (4800 bps)			
			3 (9600 bps)			
			4 (19200 bps)			
I/O-48	Operating selection at Loss of Freq. Reference	48	0 (None)	-	0	Yes
			1 (FreeRun)			
			2 (Stop)			
I/O-49	Waiting Time after Loss of Freq. Reference	49	0.1 to 120 [sec]	0.1	1.0 [sec]	Yes
I/O-50	Communication Protocol selection	50	0 (LG-BUS)		7	Yes
			1~6 (ModbusASCII)			
			7~9 (Modbus-RTU)			
I/O-99	Return Code	r	-	-	1	Yes

Note: Parameters that are set by bit are ON (1) when the upper LED is lit. (F59, H19, H22, I15, I16, I45 are the parameters that are set by bit.)
 Note: *marked default value changes depend on the main frequency setting in factory(50 / 60Hz)

Dimension : mm(inch)



Inverter	HP	W1	W2	H1	H2	D1
SV004iG5-1	0.5	100(3.94)	88(3.46)	128(5.04)	117.5(4.63)	130.9(5.15)
SV004iG5-2	0.5	100(3.94)	88(3.46)	128(5.04)	117.5(4.63)	130.9(5.15)
SV008iG5-1	1	130(5.12)	118(4.65)	128(5.04)	117.5(4.63)	150.9(5.94)
SV008iG5-2	1	100(3.94)	88(3.46)	128(5.04)	117.5(4.63)	130.9(5.15)
SV015iG5-1	2	150(5.90)	138(5.43)	128(5.04)	117.5(4.63)	155(6.10)
SV015iG5-2	2	130(5.12)	118(4.65)	128(5.04)	117.5(4.63)	150.9(5.94)
SV022iG5-2	3	150(5.90)	138(5.43)	128(5.04)	117.5(4.63)	155(6.10)
SV037iG5-2	5	150(5.90)	138(5.43)	128(5.04)	117.5(4.63)	155(6.10)
SV040iG5-2	5.4	150(5.90)	138(5.43)	128(5.04)	117.5(4.63)	155(6.10)
SV004iG5-4	0.5	130(5.12)	118(4.65)	128(5.04)	117.5(4.63)	150.9(5.94)
SV008iG5-4	1	130(5.12)	118(4.65)	128(5.04)	117.5(4.63)	150.9(5.94)
SV015iG5-4	2	130(5.12)	118(4.65)	128(5.04)	117.5(4.63)	150.9(5.94)
SV022iG5-4	3	150(5.90)	138(5.43)	128(5.04)	117.5(4.63)	155(6.10)
SV037iG5-4	5	150(5.90)	138(5.43)	128(5.04)	117.5(4.63)	155(6.10)
SV040iG5-4	5.4	150(5.90)	138(5.43)	128(5.04)	117.5(4.63)	155(6.10)

Dynamic Braking(DB) Resistors

1. Standard application

Drive	Resistor capacity [W]	Resistor value[Ω]	Average braking torque[%]	Enable duty[%]	Continuous braking time[sec]
SV004iG5-1	100□	400□	100□	5□	5□
SV008iG5-1□	100□	200□	100□	5□	5□
SV015iG5-1□	100□	100□	100□	3□	5□
SV004iG5-2	100□	400□	100□	5□	5□
SV008iG5-2□	100□	200□	100□	5□	5□
SV015iG5-2□	100□	100□	100□	3□	5□
SV022iG5-2□	100□	60□	100□	2□	5□
SV037iG5-2□	100□	40□	100□	2□	5□
SV040iG5-2□	100□	40□	100□	2□	5□
SV004iG5-4	100□	1800□	100□	5□	5□
SV008iG5-4□	100□	900□	100□	5□	5□
SV015iG5-4□	100□	450□	100□	3□	5□
SV022iG5-4□	100□	300□	100□	2□	5□
SV037iG5-4□	100□	200□	100□	2□	5□
SV040iG5-4	100	200	100	2	5

2. When the braking magnitude is high

Drive	Resistor capacity [W]	Resistor value[Ω]	Average braking torque[%]	Enable duty[%]	Continuous braking time[sec]
SV004iG5-1	100□	400□	100□	5□	5□
SV008iG5-1□	100□	200□	100□	5□	5□
SV015iG5-1□	200□	100□	100□	5□	5□
SV004iG5-2	100□	400□	100□	5□	5□
SV008iG5-2□	100□	200□	100□	5□	5□
SV015iG5-2□	200□	100□	100□	5□	5□
SV022iG5-2□	300□	60□	100□	5□	5□
SV037iG5-2□	500□	40□	100□	5□	5□
SV040iG5-2□	500□	40□	100□	5□	5□
SV004iG5-4	100□	1800□	100□	5□	5□
SV008iG5-4□	100□	900□	100□	5□	5□
SV015iG5-4□	200□	450□	100□	5□	5□
SV022iG5-4□	300□	300□	100□	5□	5□
SV037iG5-4□	500□	200□	100□	5□	5□
SV040iG5-4	500	200□	100	5	5

Drive	Resistor capacity [W]	Resistor value[Ω]	Average braking torque[%]	Enable duty[%]	Continuous braking time[sec]
SV004iG5-1	150□	300□	150□	5□	5□
SV008iG5-1□	150□	150□	150□	5□	5□
SV015iG5-1□	300□	60□	150□	5□	5□
SV004iG5-2	150□	300□	150□	5□	5□
SV008iG5-2□	150□	150□	150□	5□	5□
SV015iG5-2□	300□	60□	150□	5□	5□
SV022iG5-2□	400□	50□	150□	5□	5□
SV037iG5-2□	600□	33□	150□	5□	5□
SV040iG5-2□	600□	33□	150□	5□	5□
SV004iG5-4	150□	1200□	150□	5□	5□
SV008iG5-4□	150□	600□	150□	5□	5□
SV015iG5-4□	300□	300□	150□	5□	5□
SV022iG5-4□	400□	200□	150□	5□	5□
SV037iG5-4□	600□	130□	150□	5□	5□
SV040iG5-4	600	130□	150	5	5

Options

Option	Description
DIN Rail base	Din rail mounting plate
Remote keypad mounting fixture and cable	2 meter, 3 meter and 5 meter cable and mounting fixture.

Peripheral devices

Drive Models	kW	MCCB, ELB	Magnetic Contactor	Wire, mm2(AWG)			AC Input	AC Reactor	DC Reactor
				R,S,T	U,V,W	Ground			
SV004iG5-1	0.37□	ABS33a, EBS33□	SMC-10PD	2(14)□	2(14)□	3.5(12)□	10A□	2.13mH, 5.7A□	7.00mH, 5.4A□
SV008iG5-1□	0.75□	ABS33a, EBS33□	SMC-10PD	2(14)□	2(14)□	3.5(12)□	10A□	2.13mH, 5.7A□	7.00mH, 5.4A□
SV015iG5-1□	1.5□	ABS33a, EBS33□	SMC-10PD	2(14)□	2(14)□	3.5(12)□	10A□	2.13mH, 5.7A□	7.00mH, 5.4A□
SV004iG5-2	0.37□	ABS33a, EBS33□	SMC-10PD	2(14)□	2(14)□	3.5(12)□	10A□	2.13mH, 5.7A□	7.00mH, 5.4A□
SV008iG5-2□	0.75□	ABS33a, EBS33□	SMC-10PD	2(14)□	2(14)□	3.5(12)□	10A□	2.13mH, 5.7A□	7.00mH, 5.4A□
SV015iG5-2□	1.5□	ABS33a, EBS33□	SMC-10PD	2(14)□	2(14)□	3.5(12)□	15A□	1.20mH, 10A□	4.05mH, 9.2A□
SV022iG5-2□	2.2□	ABS33a, EBS33□	SMC-15PD	2(14)□	2(14)□	3.5(12)□	25A□	0.88mH, 14A□	2.92mH, 13A□
SV037iG5-2□	3.7□	ABS33a, EBS33□	SMC-20PD	3.5(12)□	3.5(12)□	3.5(12)□	40A□	0.56mH, 20A□	1.98mH, 19A□
SV040iG5-2□	4□	ABS33a, EBS33□	SMC-20PD	3.5(12)□	3.5(12)□	3.5(12)□	40A□	0.56mH, 20A□	1.98mH, 19A□
SV004iG5-4	0.37□	ABS33a, EBS33□	SMC-10PD	2(14)□	2(14)□	2(14)□	6A□	8.63mH, 2.8A□	28.62mH, 2.7A□
SV008iG5-4□	0.75□	ABS33a, EBS33□	SMC-10PD	2(14)□	2(14)□	2(14)□	6A□	8.63mH, 2.8A□	28.62mH, 2.7A□
SV015iG5-4□	1.5□	ABS33a, EBS33□	SMC-10PD	2(14)□	2(14)□	2(14)□	10A□	4.81mH, 4.8A□	16.14mH, 4.6A□
SV022iG5-4□	2.2□	ABS33a, EBS33□	SMC-20PD	2(14)□	2(14)□	2(14)□	10A□	3.23mH, 7.5A□	11.66mH, 7.1A□
SV037iG5-4□	3.7□	ABS33a, EBS33□	SMC-20PD	2(14)□	2(14)□	2(14)□	20A□	2.34mH, 10A□	7.83mH, 10A□
SV040iG5-4	4	ABS33a, EBS33	SMC-20P	2(14)	2(14)	2(14)	20A	2.34mH, 10A	7.83mH, 10A□

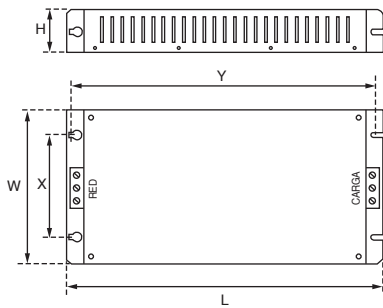
RFI Filters

IG5 Series			Footprint Filter							
Drive Models	Power	Code	Current	Tension Voltage	Leakage Current	Dimensions L W H	Mounting Y X	Weight	Mount	Output Chokes
SINGLE PHASE										
SV004iG5-1	0.4kW	FFG5-M010-1	10A	250VA	3.5A	173.5 X 103.5 X 40	159.5 X 80		M4	FS-1
SV008iG5-1	0.8kW	FFG5-M011-1	11A	250VA	3.5A	173.5 X 133.5 X 40	159.5 X 110		M4	FS-1
SV015iG5-1	1.5kW	FFG5-M020-1	20A	250VA	3.5A	173.5 X 153.5 X 40	159.5 X 130		M4	FS-2
THREE PHASE										
SV004iG5-2	0.4kW	FFG5-T005-1	5A	250VA	0.3A 18A	173.5 X 103.5 X 40	159.5 X 80		M4	FS-1
SV008iG5-2	0.8kW	FFG5-T012-1	12A	250VA	0.3A 18A	173.5 X 133.5 X 40	159.5 X 110		M4	FS-2
SV022iG5-2	2.2kW	FFG5-T020-1	20A	250VA	0.3A 18A	173.5 X 153.5 X 40	159.5 X 130		M4	FS-2
SV037iG5-2	3.7kW									
SV040iG5-2	4.0kW									
SV004iG5-4	0.4kW	FFG5-T006-1	6A	380VAC	0.5A 27A	173.5 X 133.5 X 40	159.5 X 110		M4	FS-1
SV008iG5-4	0.8kW									
SV015iG5-4	1.5kW									
SV022iG5-4	2.2kW									
SV037iG5-4	3.7kW	FFG5-T011-1	11A	380VAC	0.5A 27A	173.5 X 133.5 X 40	159.5 X 130		M4	FS-2
SV040iG5-4	4.0kW									

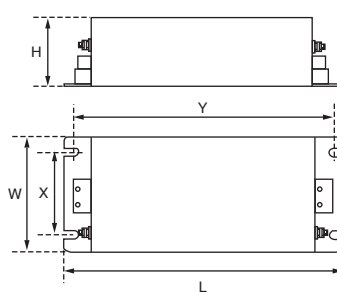
IG5 Series			Standard Filter							
Drive Models	Power	Code	Current	Tension Voltage	Leakage Current	Dimensions L W H	Mounting Y X	Weight	Mount	Output Chokes
SINGLE PHASE										
SV004iG5-1	0.4kW	FFG5-T010-(X)	10A	250VA	3.5A	150.5 X 55 X 45	140 X 45		---	FS-1
SV008iG5-1	0.8kW	FFG5-T015-(X)	15A	250VA	3.5A	150.5 X 55 X 45	140 X 45		---	FS-2
SV015iG5-1	1.5kW									
THREE PHASE										
SV004iG5-2	0.4kW	FFG5-T006-(X)	6A	250VA	0.3A 18A	250 X 110 X 60	238 X 76		---	FS-2
SV008iG5-2	0.8kW	FFG5-T012-(X)	12A	250VA	0.3A 18A	250 X 110 X 60	238 X 76		---	FS-2
SV015iG5-2	1.5kW	FFG5-T020-(X)	20A	250VA	0.3A 18A	270 X 140 X 60	258 X 106		---	FS-2
SV022iG5-2	2.2kW									
SV037iG5-2	3.7kW									
SV040iG5-2	4.0kW									
SV004iG5-4	0.4kW	FFG5-T006-(X)	6A	380VAC	0.5A 27A	250 X 110 X 60	238 X 76		---	FS-2
SV008iG5-4	0.8kW									
SV015iG5-4	1.5kW									
SV022iG5-4	2.2kW									
SV037iG5-4	3.7kW	FFG5-T012-(X)	12A	380VAC	0.5A 27A	250 X 110 X 60	238 X 76		---	FS-2
SV040iG5-4	4.0kW									

(X) (1) Industrial environment EN 50081-1 (A class)
 (2) Domestic and industrial environment EN 50081-1 (B class)

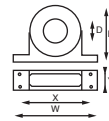
FF Series (Footprint)



FE Series (Standard)

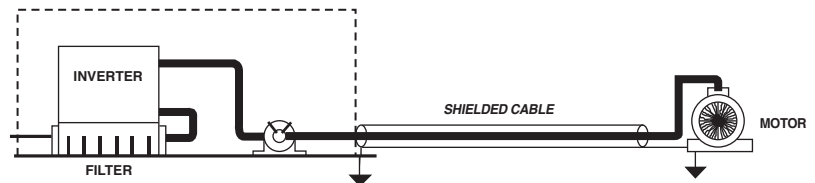


FS Series (output chokes)

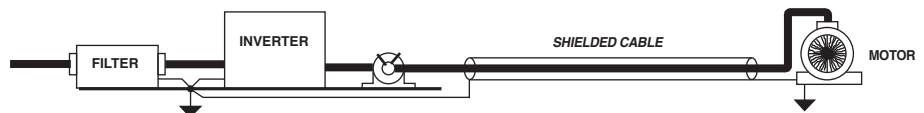


Type	D	W	H	X	O
FS-1	21	85	46	70	5
FS-2	28.5	105	62	90	5
FS-3	48	150	110	125 x 30	5
FS-4	58	200	170	180 x 45	5

FF Series (Footprint)



FE Series (Standard)



Leader in Electrics & Automation



Safety Instructions

- For your safety, please read user's manual thoroughly before operating.
- Contact the nearest authorized service facility for examination, repair, or adjustment.
- Please contact qualified service technician when you need maintenance. Do not disassemble or repair by yourself!
- Any maintenance and inspection shall be performed by the personnel having expertise concerned.



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