

Variable Frequency Drive / Inverter

Starvert iH

30 - 55kW(40 - 75HP) 3 phase 200 - 230Volts
30 - 220kW(40 - 300HP) 3 phase 380 - 400Volts, 440 - 460Volts



Automation Equipment



LG Industrial Systems

www.lgis.com



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***Dual rated iH,
fits for HVAC applications
with Space Vector Control.***

Standard features

- KW / Voltage Ratings:
 - 30-55kW, 200-230VAC, 3 phase
 - 30-220kW, 380-460VAC, 3 phase
- Inverter Type : PWM with IGBT
- CPU : 32bits high speed DSP
- Control method: Volts/Hertz with Space Vector PWM Technology
- CT, VT dual ratings
- Enclosure : IP00
- 2-10kHz Carrier Frequency
- 0.5-400 Output Frequency
- Removable Keypad(Able to read & write parameters)
- 6 Multi-function Inputs
- 5 Multi-function Outputs (3 Open-collectors, 2 Relays)
- 4-20mA Analog Output
- DC Injection Braking

Options

- Dynamic Braking Units
- Communication Board
 - RS485
 - F-Net
 - ModBus-RTU
 - Device Net
 - Profibus
 - Window based operating software(Driveview 2.0)

Application

- Fan/Blower
- Water/Waste Water Pump
- Conveyor
- Parking System
- Material Handling
- Industrial Washing Machine
- Packaging machine

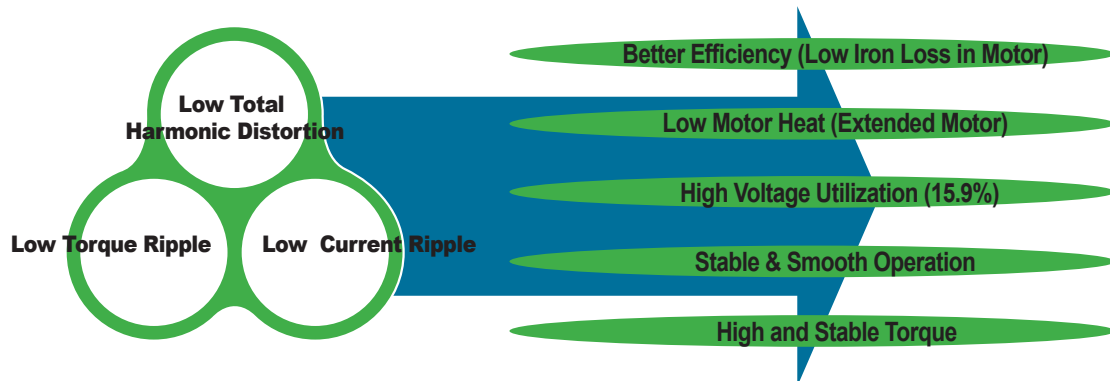
Conformity to global standards

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



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 iH. The advantages of Space vector PWM technology are being provided in many applications.

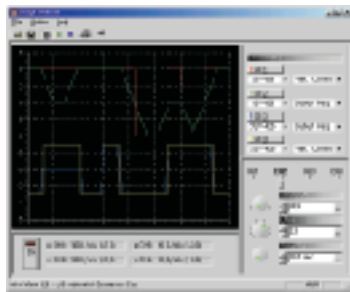


Built-in PI control

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

Convenient and Various Communication Interface

The iH can be operated with communication interface such as RS485, ModBus-RTU, DeviceNet, Profibus, and F-Net, in order to be operated in various circumstances. Driveview 2.0 software is a Window based tool that provides convenience of monitoring and controlling to user. The Driveview 2.0 features a graph monitor, keypad emulator, parameter editor, and text monitor, to help user's monitoring and controlling of drive. It is applicable for all LG drives.



F-Net™
ModBus-RTU™
DeviceNet™
RS-485

CT / VT Dual Ratings

The iH features dual ratings in order to be used in both of constant torque and variable torque load conditions. User can pick the most suitable drive through dual ratings for various load conditions. In that way, user can be prevented from using an overpowered drive.

User friendly easy straight line programming

The iH has simple grouping programming flow. It enables quick and easy parameter change and monitoring through 32 character two line LCD display keypad.

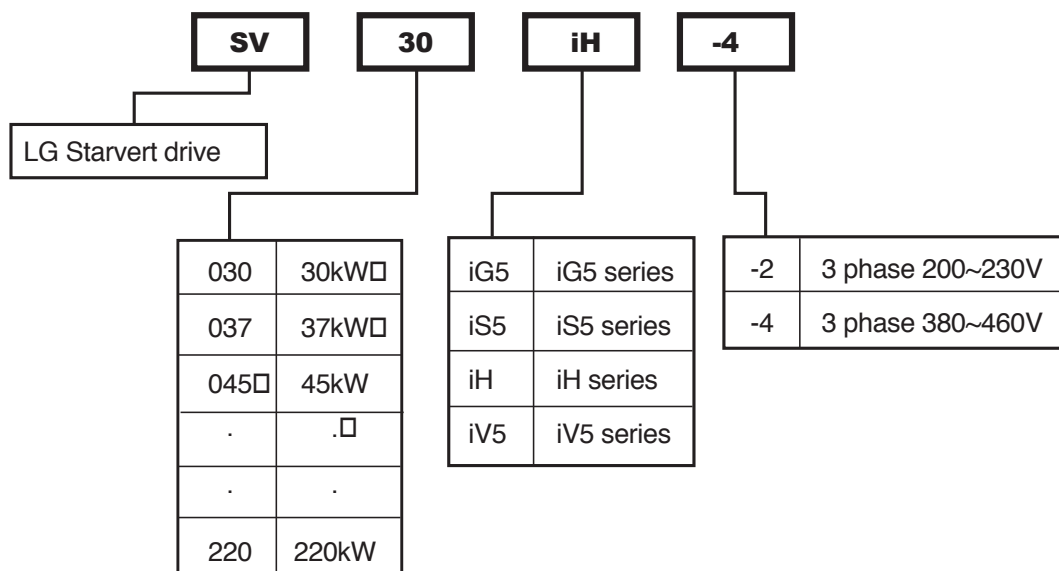
High torque in overall speed range

The iH has 150% torque at low speed. Thus, its torque performance is proved in high duty applications.

Drive rating selection guide

Application motor		200~230V 3 phase	380~460V 3 phase
kW	HP		
30□	40□	SV030iH-2	SV030iH-4□
37□	50□	SV037iH-2□	SV037iH-4□
45□	60□	SV045iH-2	SV045iH-4□
55□	75□	SV055iH-2	SV055iH-4□
75□	100□		SV075iH-4□
90□	125□		SV090iH-4□
110□	150□		SV110iH-4□
132□	175□		SV132iH-4□
160□	215□		SV160iH-4□
220	300		SV220iH-4

Drive type nomenclature



Specifications 200 ~ 230V Class(40~ 75HP)

Type		SV030iH-2	SV037iH-2	SV045iH-2	SV055iH-2
Motor rating ^{*1)}	Constant Torque [HP]	40□	50□	60□	75□
	Constant Torque [kW]	30□	37□	45□	55□
Output ratings	Constant Torque FLA [A]	46□	55□	68□	83□
	Constant Torque [kVA] ^{*2)}	122□	146□	180□	220□
Input ratings	Voltage	□	3phase, 200to 230V(±10%)□	□	□
	Frequency	□	50 to 60Hz(±5%)	□	□
Weight[kg(lbs)]		42(93)	42(93)	56(123)	56(123)

Specifications 380 ~ 400V Class(40~ 300HP)

Type		SV030iH-4	SV037iH-4	SV045iH-4	SV055iH-4	SV075iH-4
Motor rating ^{*1)}	Constant Torque [HP]	40□	50□	60□	75□	100□
	Constant Torque [kW]	30□	37□	45□	55□	75□
	Variable Torque [HP]	50□	60□	75□	100□	125□
	Variable Torque [kW]	37□	45□	55□	75□	90□
Output ratings	Constant Torque FLA [A]	61□	75□	91□	110□	152□
	Constant Torque [kVA] ^{*3)}	40□	50□	60□	70□	100□
	Variable Torque FLA [A]	80□	96□	115□	125□	160□
	Variable Torque [kVA] ^{*3)□}	52□	62□	74□	80□	103□
Input ratings	Voltage	□	3phase, 380 to 400V(±10%)□	□	□	□
	Frequency	□	50 to 60Hz(±5%)	□	□	□
Weight[kg(lbs)]		45(99)	45(99)	63(139)	63(139)	68(150)

Type		SV090iH-4	SV110iH-4	SV132iH-4	SV160iH-4	SV220iH-4
Motor Rating ^{*1)}	Constant Torque [HP]	125□	150□	175□	215□	300□
	Constant Torque [kW]	90□	110□	132□	160□	220□
	Variable Torque [HP]	150□	175□	215□	250□	350□
	Variable Torque [kW]	110□	132□	160□	185□	280□
Output ratings	Constant Torque FLA [A]	183□	223□	264□	325□	432□
	Constant Torque [kVA] ^{*3)}	120□	145□	170□	200□	280□
	Variable Torque FLA [A]	228□	264□	330□	361□	477□
	Variable Torque [kVA] ^{*3)}	147□	170□	213□	233□	307□
Input ratings	Voltage	□	3phase, 380 to 400V(±10%)□	□	□	□
	Frequency	□	50 to 60Hz(±5%)	□	□	□
Weight[kg(lbs)]		98(216)	98(216)	122(269)	122(269)	175(386)

Specifications 440 ~ 460V Class(40~ 300HP)

Type		SV030iH-4	SV037iH-4	SV045iH-4	SV055iH-4	SV075iH-4
Motor rating ^{*1)}	Constant Torque [HP]	40□	50□	60□	75□	100□
	Constant Torque [kW]	30□	37□	45□	55□	75□
	Variable Torque [HP]	50□	60□	75□	100□	125□
	Variable Torque [kW]	37□	45□	55□	75□	90□
Output ratings	Constant Torque FLA [A]	61□	75□	91□	110□	152□
	Constant Torque [kVA] ^{*4)□}	45□	56□	68□	82□	113□
	Variable Torque FLA [A]	80□	96□	115□	125□	160□
	Variable Torque [kVA] ^{*4)□}	60□	70□	86□	93□	120□
Input ratings	Voltage	□	3phase, 440 to 460V(±10%)□	□	□	□
	Frequency	□	50 to 60Hz(±5%)	□	□	□
Weight[kg(lbs)]		45(99)	45(99)	63(139)	63(139)	68(150)

^{*1)} Indicates the maximum applicable capacity when using a 4 Pole motor.

^{*2)} Rated kVA ($\sqrt{3} \cdot V \cdot I$) is based on 220V.

^{*3)} Rated kVA ($\sqrt{3} \cdot V \cdot I$) is based on 380V. □

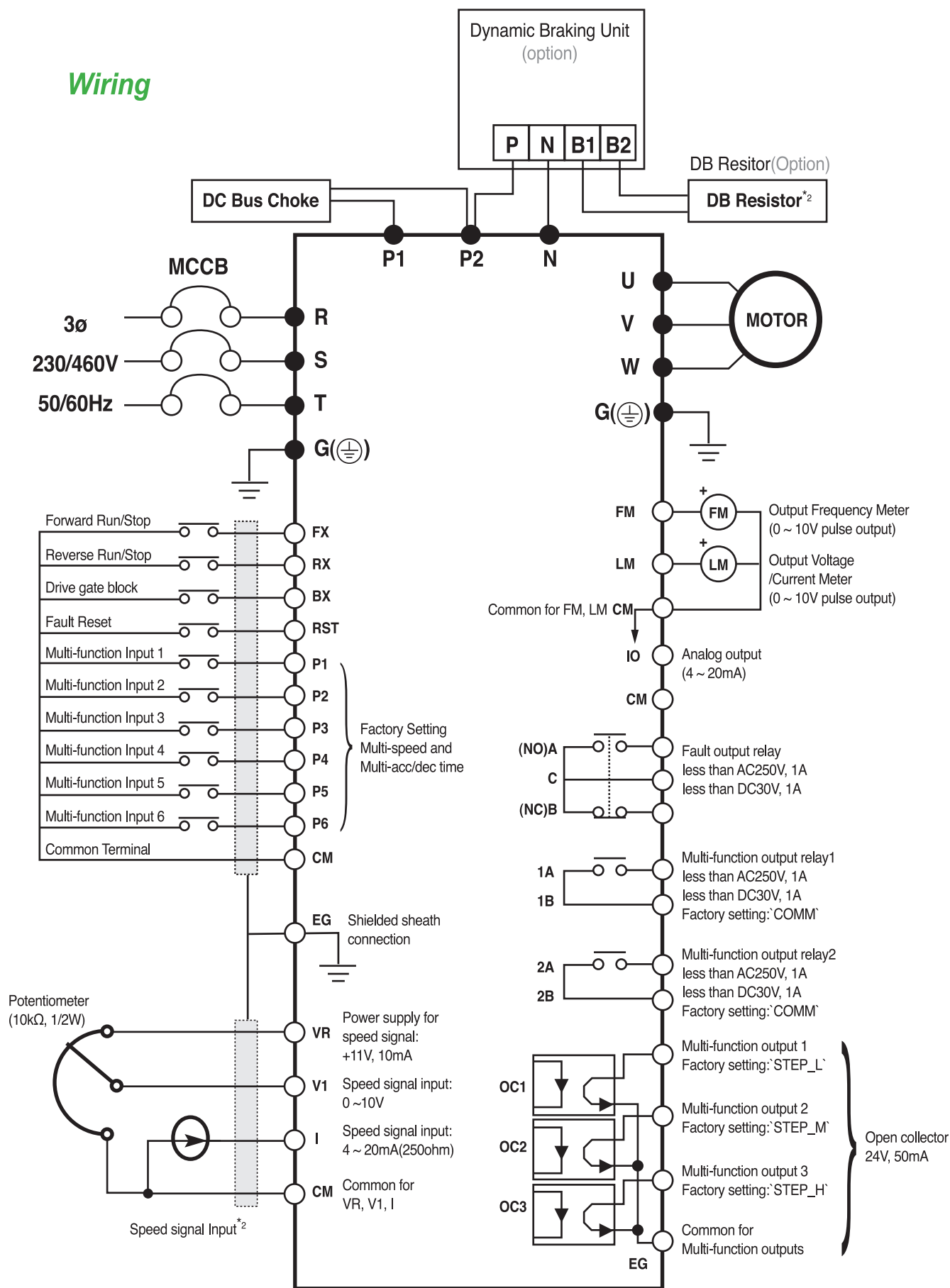
^{*4)} Rated kVA ($\sqrt{3} \cdot V \cdot I$) is based on 440V.

Type	SV090iH-4	SV110iH-4	SV132iH-4	SV160iH-4	SV220iH-4
Motor rating ^{*1)}	Constant Torque [HP]	125□	150□	175□	215□
	Constant Torque [kW]	90□	110□	132□	160□
	Variable Torque [HP]	150□	200□	250□	300□
	Variable Torque [kW]	110□	132□	185□	220□
Output ratings	Constant Torque FLA [A]	183□	223□	264□	325□
	Constant Torque [kVA] ^{*4)}	136□	166□	197□	242□
	Variable Torque FLA [A]	228□	264□	330□	361□
	Variable Torque [kVA] ^{*4)□}	170□	200□	246□	270□
Input ratings	Voltage	□	3phase, 440 to 460V(±10%)□	□	□
	Frequency	□	50 to 60Hz(±5%)	□	□
Weight[kg(lbs)]	98(216)	98(216)	122(269)	122(269)	175(386)

Common Specifications

Output ratings	Max. Frequency	0.5 to 400 Hz
	Output Voltage	3 Phase, 0 to Input Voltage
Control	Control Method	Space Vector PWM
	Frequency Setting Resolution	Digital Reference: 0.01 Hz (Below 100Hz), 0.1 Hz (Over 100Hz)□ Analog Reference: 0.03 Hz / 60Hz
	Frequency Accuracy	Digital: 0.01% of Maximum Output Frequency □ Analog: 0.1% of Maximum Output Frequency
	V/F Ratio	Linear, Non-Linear, User Programmable
	Braking Torque (w/o DB)	About 20%
	Overload Capacity CT	150% of Rated Current for 1 Minute, 200% for 0.5 Second
	Overload Capacity VT	110% of Rated Current for 1 Minute, 150% for 0.5 Second
	Torque Boost	Manual Torque Boost (0 to 20%), Auto Torque Boost
Operating	Operation Method	Keypad / Terminal / Remote (Optional)
	Frequency Setting	Analog: 0 to 10 V / 4 to 20mA, Digital: Keypad
	Accel / Decel Time	0.1 to 6,000 sec, 8 Pre-Defined (Programmable)
	Multi-Step	8 Preset Operational Speed
	Jog	Jog Operation
	Operating Function	DC Braking, Frequency Limit, Frequency Jump, Slip Compensation, PI Control, Stall Prevention
	Operating Status	Frequency Detection Level, Overload Alarm, Stalling, Over Voltage, Under Voltage, Drive Overheat, Run, Stop, Constant Speed, Speed Searching
	Start Signal	Forward, Reverse
Programmable I/O	Programmable Input	6 Programmable Inputs
	Programmable Output	5 Programmable Outputs: 2 Form A Contact (N.O.) Fault Contact Output (A, C, B) - 250VAC 1A, 30VDC 1A 3 Open Collector Outputs: 24V, 50mA
	Analog	4 ~ 20mA
	Meter	RPM, Hz, Current, Voltage (Output Pulse: 500Hz, Output Voltage: 0 ~ 10V)
Protective Functions	Drive Trip	Over Voltage, Under Voltage, Over Current, Drive Overload, Fuse Open, Ground Fault, Drive Overheat, Motor Overheat, Main CPU Error.
	Stall Prevention	Over Current Prevention
	Instant Power Loss	Less Than 15msec: Continuous Operation, More Than 15msec: Auto Restart (Programmable)
Operating Conditions	Ambient Temp.	14°F ~ 104°F (-10°C ~ 40°C), CE Certification: 41°F ~ 104°F (5°C ~ 40°C)
	Storage Temp.	-4°F ~ 149°F (-20°C ~ 65°C)
	Humidity	90% RH Max. (Non-Condensing), CE Certification: 5 ~ 85% (Non-Condensing)
	Altitude · Vibration	Below 3,300ft (1,000m) · Below 5.9m/sec ² (0.6 g)
	Air Pressure	86 ~ 106kPa
	Application Site	No corrosive gas, combustible gas, oil mist, or dust
	Cooling Method	Forced Air Cooling
	Enclosure	IP00
	International Standards	CE Certified, UL Listed (UL508C)

Wiring



Note) "●" Main circuit terminals, "○" Control circuit terminals.

1. Analog speed command can be set by Voltage, Current and both of them.

2. When installing the DC Reactor, the Common Busbar between P1 and P2 must be removed.

Power terminal configuration

• 200 - 230V Class



• 380 - 460V Class



Symbols	Functions
R S T	AC Line input (3 phase 200~230 VAC or 380 ~ 460 VAC)
G	Earth Ground
P1 P2	Positive DC Bus Terminal External DC Reactor(P1-P2) and DB Unit(P2-P') connection terminals
N	Negative DC Bus Terminal DB Unit(N-N) connection terminal
U V W	3-Phase power output terminals to motor(3phase, 200 ~230VAC or 380 ~ 460VAC)

"Suitable for use on a circuit capable of delivering not more than 10,000 rms symmetrical amperes, 240 volts maximum for 230V class models and 480 volts maximum for 460V class models."

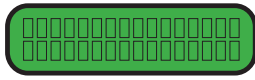
Control terminal configuration



Type	Symbol	Name	Description
Input signal	P1 ~ P6	Multi-function input 1 ~ 6	Used for multi-function input terminal.
	FX	Forward run command	Forward run when closed and stopped when open.
	RX	Reverse run command	Reverse run when closed and stopped when open.
	BX	Drive gate block	When the BX signal is ON the output of the drive is turned off. When motor uses a mechanical brake to stop, BX is used to turn off the output signal. When BX signal is OFF (not turned off by latching) and FX signal (or RX signal) is ON, motor continues to run.
	RST	Fault reset	Used for fault reset.
	CM	Sequence common	Common terminal for contact inputs.
	VR	Frequency setting power (+10V)	Used as power for analog frequency setting. Maximum output is +12V, 10mA.
	V1	Frequency reference (Voltage)	Used for 0-10V input frequency reference. Input resistance is 20kΩ
	I	Frequency reference (Current)	Used for 4-20mA Input frequency reference. Input resistance is 250Ω
	CM	Frequency setting common terminal	Common terminal for analog frequency setting
Output signal	FM	Frequency output(For external monitoring)	Outputs PWM signal according to drive output frequency. Maximum output voltage and output current are 0-12V and 1mA.
	LM	Current/Voltage output(For external monitoring)	Outputs one of the following: output current, output voltage. Default is set to output voltage. Maximum output voltage and output current are 0-12V and 1mA. Output frequency is set at 1.8kHz.
	IO	Frequency output (4 ~ 2mA)	Outputs analog signal according to inverter output frequency.
	A, C, B	Fault output relay	Activates when protective function is operating. AC250V, 1A or less; DC30V, 1A or less. Fault: 30A-30C closed (30B-30C open) Normal: 30B-30C closed (30A-30C open)
	1A-1B, 2A-2B	Multi-function output relay 1 and 2 (AUX1, AUX2)	Use after defining multi-function output terminal. AC250V, 1A or less; DC30V, 1A or less.
	OC1, OC2, OC3	Multi-function open collector output	Use after defining multi-function output terminal. DC24V, 50mA
	EG	Multi-function open collector output common terminal	Ground terminal for OC1, OC2, OC3.

Keypad

LCD Control Panel



32 Character, back lit, **LCD display**.
The backlight is adjustable.

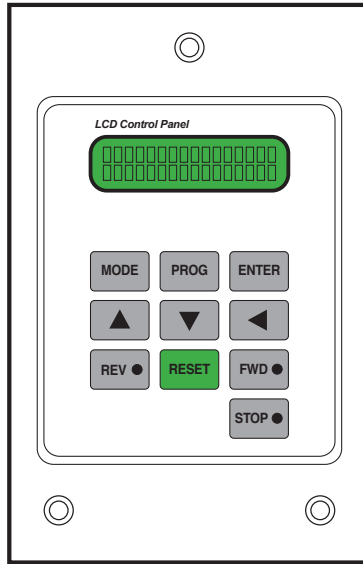
The **Mode Button** moves you through the three program groups : DRV, FUN, I/O



The **Up and Down Arrows** are used to search parameters and change data.



The **Reverse Run Button** blinks when the reverse drive accels or decels.



The **Program Button** is used to go into programming mode to change data.



The **Enter Button** is used to enter changed parameters.



The button is used to move cursor across the display in a programming mode.



The **Forward Run Button** blinks when the forward drive accels or decels.



The **Stop Button** blinks when there is a fault.



The **Reset Button** is used to reset faults.

Parameter groups

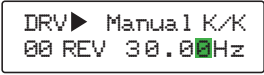
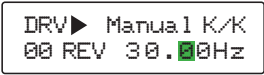
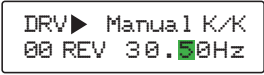
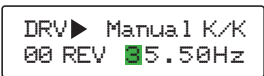
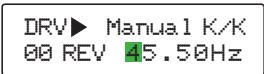
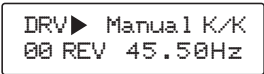
Group name	LCD Keypad(Upper Left Coner)	Description
Drive Group	DRV	Command frequency, Accel/Decel time Etc. Basic parameters
Function Group	FUN	Maximum frequency, amount of torque boost etc. Basic Related Parameters
Input/Output Group	I/O	Multi-Function terminal settings. Parameters needed for sequence operation

Operation method

Operation Method	Function	Function Setting
Operation using keypad	Run/Stop command and frequency are set only through the keypad.	FUN 01: Key
		FUN 02: Key
Operation using Control Terminals	Closing FX or RX terminal performs Run/Stop.	FUN 01: Terminal
	Frequency reference is set through V1 or I terminal.	FUN 02: Terminal-1 or Terminal-2
Operation using both Keypad and Control Terminals	Run/Stop is performed by the keypad. Frequency reference is set through the V1 or I terminal.	FUN 01: Terminal
		FUN 02: Key
Option	Closing FX or RX terminal performs Run/Stop. Frequency reference is set through the keypad.	FUN 01: Key
		FUN 02: Terminal-1 or Terminal-2
	Operation using RS485 communication between drive and computer.	FUN 01: Remote
		FUN 02: Remote
		I/O 48: RS485
	Operation using ModBus RTU communication between drive and PLC.	FUN 01: Remote
		FUN 02: Remote
		I/O 48: ModBus RTU
	Operation using FNet communication between drive and computer.	FUN 01: Remote
		FUN 02: Remote
		I/O 48: FNet

Procedure of Setting Data

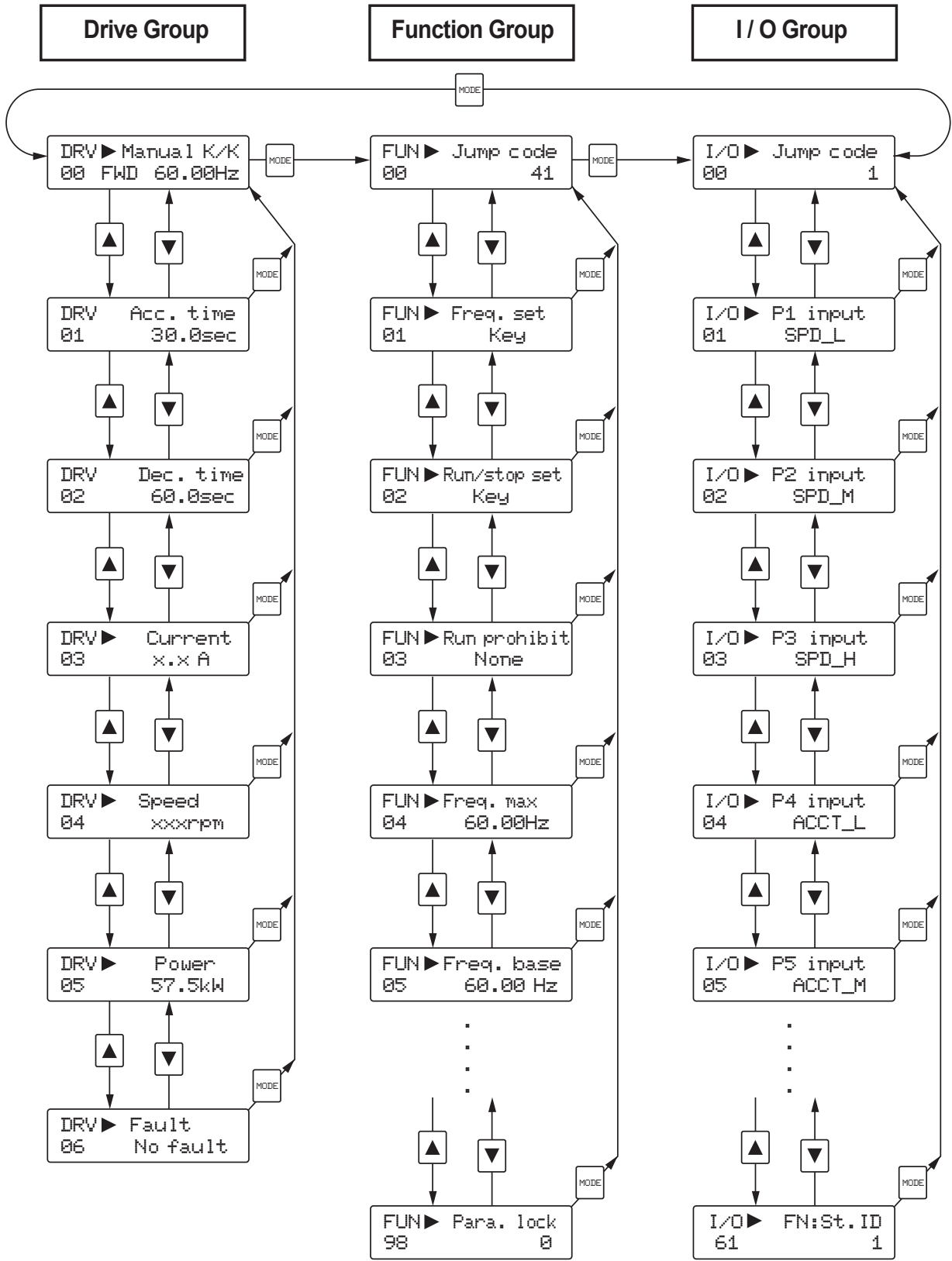
Bô To change command frequency from 30.00Hz to 45.50Hz :

		Press PROG key and the cursor appears on the lowest digit.
		Press LEFT key once to move digit.
		Press UP key 5 time.
		Press SHIFT key once to shift the cursor to next digit.
		Press UP key 5 time.
		Press SHIFT key once to shift the cursor to next digit.
		Press UP key once to make 4.
		Press ENTER key to store new value.

The same procedure is applied to all other parameters. While the drive is running, the output frequency can be change to a new command frequency.□

**Note : Some parameters cannot be changed while the drive is running
(refer to the function group table in program parameter descriptions.)*

Parameter navigation



Program parameter descriptions

1. Drive Group

Code [DRV]	Description of Drive Group	Keypad Display	Setting Range	Units	Factory Default	Adjustable during run
00	Output Frequency(During Run)or Reference Frequency(During Stop)	Cmd. Freq	0 to FUN04□ □	0.01	0.00 [Hz]	Yes
01	Acceleration Time	Acc.time	0 to 6000 [sec]□	0.1	30.0 [sec]	Yes
02	Deceleration Time	Dec. time	0 to 6000 [sec]□	0.1□	60.0 [sec]	Yes
03	Output Current	Current	The load current in RMS	-□	- [A]	-
04	Output Speed□	Speed	The motor speed in RPM	-□	- [rpm]	-
05	Output Power Display	Power	Inverter Output Power□	-□	-[kW]	-
06	Fault Display	Fault	-	-	-	-

2. Function Group

Code [FUN]	Description of Function Group	Keypad Display	Setting Range	Units	Factory Default	Adjustable during run
00	Jump to Desired Code #	Jump Code	1 to 98	1□	41□	Yes□
01	Frequency Setting Mode	Freq.set	Key,Terminal, Remote□	-□	Key	No
02	Run / Stop Mode Selection	Run/Stop set	Key, Terminal-1,Terminal-2, Remote□	-□	Key	No
03	Run Prevention	Run prohibit	None, FWD disable, REV disable	-□	None	No
04	Maximum Frequency Output Set Point	Freq.max	40 to 400 [Hz]	0.01□	60 [Hz]□	No
05	Base Frequency	Freq.base	40 to FUN 04	0.01□	60 [Hz]□	No
06	Starting Frequency	Freq.start	0.5 to 5[Hz]	0.01□	0.5 [Hz]□	No
07	Starting Frequency Hold Time	Hold time	0 to 10 [sec]	0.1□	0.0 [sec]□	Yes
08	Volts / Hz Pattern	V/F pattern	Linear, 2.0(Squared), User, Auto	-□	Linear□	No
09	Torque Boost in Forward Direction	Fwd boost	0 to 20 [%]	1□	2 [%]□	Yes
10	Torque Boost in Reverse Direction	Rev boost□	0 to 20 [%]	1□	2 [%]□	Yes
11	Acceleration Pattern	Acc. pattern	Linear, S-curve,U-curve□	-□	Linear□	No
12	Deceleration Pattern	Dec. pattern	Linear, S-curve,U-curve	-□	Linear	No
13	Output Voltage Adjustment	Volt control	40 to 110 [%]	1□	100 [%]□	No
14	Energy Savings Level	Energy save	30 to 100 [%]	1□	100 [%]	Yes
15	Stop Mode Selection	Stop mode	Decel, DCBR, Free Run	-□	Decel	No
16	User V/F - Frequency 1	User-1f	0 to 30 [Hz]	0.01□	10.00 [%]□	No
17	User V/F - Voltage 1	User-1v	0 to 50 [%]	1□	15 [%]□	No
18	User V/F - Frequency 2	User-2f	FUN 16 to FUN 04	1□	30.00 [%]	No
19	User V/F - Voltage 2	User-2v	FUN 17 to 100 [%]	1□	50 [%]	No
20	Analog Speed Input Selection	V-I mode	V1, I, V1+I, V2	-□	V1	No
21	Analog Speed Input Filter Gain	Filter gain	1 to 100 [%]	1□	25 [%]	Yes□
22	Analog Speed Input Gain	Analog gain	50 to 250 [%]	1□	100 [%]	Yes□
23	Analog Speed Input Bias	Analog bias	0 to 200 [%]	1□	0 [%]	Yes□
24	Analog Speed Input Direction	Analog dir	Direct, Invert	-□	Direct	Yes□
25	Frequency Limit Selection	Freq. limit	No, Yes	-□	No	No
26	Frequency High Limit Selection	F-limit high	0 to FUN 04□	0.01□	60.00 [Hz]	No
27	Frequency Low Limit Selection	F-limit low	0 to FUN26	0.01□	0.00 [Hz]	No
28	Jump Frequency Selection	Freq. jump□	No, Yes□	-□	No	No
29	Jump Frequency 1	Freq. jump 1f□	0 to FUN 04□	0.01□	10.00 [Hz]□	No
30□	Jump Frequency 2	Freq. jump 2f□	0 to FUN 04□	0.01□	20.00 [Hz]□	No
31□	Jump Frequency 3	Freq. jump 3f□	0 to FUN 04□	0.01□	30.00 [Hz]□	No
32□	Jump Frequency Bandwidth	Freq. band	0 to 30 [Hz]	0.01□	5.00 [Hz]□	No
33□	DC Injection Braking Frequency	DC-br freq	0 to 60 [Hz]	0.01□	0.5 [Hz]	Yes□
34□	DC Injection Braking On-Delay Time	DC-br block	0.5 to 5[sec]	0.1□	2 [sec]	Yes□
35□	DC Injection Braking Time	DC-br time	0.1 to 25.0 [sec]	0.1□	0.5 [sec]	Yes□
36□	DC Injection Braking Voltage	DC-br value	1 to 20 [%]	1□	1 [%]	Yes□
37□	Slip Compensation	Slip compen.	No, Yes	-□	No	Yes□
38□	Rated Motor Slip	Rated slip	0 to 5 [Hz]	0.01□	0.00 [Hz]□	Yes□
39□	Rated Motor Current (in RMS)	M-rated cur.	0.1 to 999[A]	0.1□	103.0 [A] ⁺⁹⁾	Yes□
40□	No Load Motor Current in RMS	No-load cur.	0.1 to 300 [A]	0.1□	0.1 [A]□	Yes
41	Inverter Capacity□ □ □ □	Inv Capacity	SV030iH-2 SV037iH-2□ SV220iH-4	-□	SV030iH-2 ⁺¹⁰⁾ □	No
42	Number of Auto Restart	Retry number	0 to 10	1	0	Yes
43□	Delay Time Before Auto Restart	Retry time	0 to 10 [sec]□	0.1	1.0[sec]	Yes
44	Fault Output Relay(A, B, C)	Relay mode	Retry0, All Trips, □ LV+Retry0, LV+All Trips	-	Retry 0	Yes

2. Function Group

Code [FUN]	Description of Function Group	Keypad Display	Setting Range	Units	Factory Default	Adjustable during run
45 ☐	Stall Prevention Mode ☐	Stall mode ☐	None, Acc, Steady, Acc + Steady, Dec, Acc + Dec, Dec + Steady, Acc + Dec+Steady	- ☐ ☐	☐ None ☐ ☐	☐ Yes ☐
46 ☐	Stall Prevention Level ☐	Stall level ☐	CT: 30 to 150 [%] VT: 30 to 150 [%]	1 ☐ 1 ☐	150 [%] ☐ 110 [%] ☐	Yes ☐ Yes ☐
47 ☐	Overload Warning Level ☐	OL level ☐	CT: 30 to 150 [%] VT: 30 to 110 [%]	1 ☐ 1 ☐	150 [%] ☐ 110 [%] ☐	Yes ☐ Yes ☐
48 ☐	Overload Warning Hold Time ☐	OL time ☐	1 to 30 [sec]	1 ☐	10 [sec] ☐	Yes ☐
49 ☐	Over Current Trip Limit Level ☐	OC lim level ☐	CT: 30 to 200 [sec] VT: 30 to 150 [sec]	1 ☐ 1 ☐	160 [%] ☐ 110 [%] ☐	Yes ☐ Yes ☐
50 ☐	Over Current Limit Time ☐	OC lim. Time ☐	0 to 60 [sec]	0.1 ☐	60 [sec] ☐	Yes ☐
51 ☐	Electronic Thermal Selection ☐	ETH select ☐	No, Yes	- ☐	No ☐	Yes ☐
52 ☐	Electronic Thermal Level ☐	ETH level ☐	30 to 150 [%]	1 ☐	150 [%] ☐	Yes ☐
53 ☐	Electronic Thermal Characteristic (Motor Type) Selection	Motor type ☐	General, Special	- ☐	General ☐	Yes ☐
54 ☐	Number of Motor Poles ☐	Pole number ☐	2 to 12	1 ☐	4 ☐	Yes ☐
55 ☐	IPF (Instant Power Failure) Restart Selection ☐	IPF select ☐	No, Yes	- ☐ ☐	No ☐ ☐	Yes ☐
56 ☐	Speed Search Acceleration Time ☐	SS acc. time ☐	0.1 to 600 [sec]	0.1 ☐	5 [sec] ☐	Yes ☐
57 ☐	Speed Search Deceleration Time ☐	SS dec. Time ☐	0.1 to 600 [sec]	0.1 ☐	10 [sec] ☐	Yes ☐
58 ☐	Speed Search Gain ☐	SS gain ☐	0 to 200 [%]	1 ☐	100 [%] ☐	Yes ☐
59 ☐	Restart after Fault Reset Selection ☐	RST-restart ☐	No, Yes	- ☐	No ☐	Yes ☐
60 ☐	Power-On Start Selection ☐	Power on st ☐	No, Yes	- ☐	No ☐	Yes ☐
61 ☐	Carrier Frequency ☐	Carrier Freq ☐	2 to 10 [Hz]	1 ☐	6 [Hz] ^{*11)} ☐	No
62 ☐	PI Control Selection ☐	PI-control ☐	No, Yes	- ☐	No ☐	No
63 ☐	PI Proportional Gain ☐	P-gain ☐	1 to 30000	1 ☐	10 ☐	Yes ☐
64 ☐	PI Integral Gain ☐	I-gain ☐	1 to 30000	1 ☐	50 ☐	Yes ☐
65 ☐	PI Feedback Selection ☐	PI-fb select ☐	I, V1, V2	- ☐	I ☐	No
66 ☐	PI Feedback Filter Gain ☐	PI-fb filt.G ☐	1 to 100 [%]	1 ☐	25 [%] ☐	Yes ☐
67 ☐	PI Feedback Gain ☐	PI-fb gain ☐	50 to 250 [%]	0.1 ☐	100.0 [%] ☐	Yes ☐
68 ☐	PI Feedback Bias ☐	PI-fb bias ☐	0 to 200 [%]	0.1 ☐	100.0 [%] ☐	Yes ☐
69 ☐	PI Feedback Direction ☐	PI-fb dir ☐	Direct, Invert	- ☐	Direct ☐	No
70 ☐	PI I Gain Scale ☐	I_term scale ☐	1 to 100 [%]	1 ☐	100 [%] ☐	Yes ☐
71 ☐	PI Controller Error Direction ☐	PI error dir ☐	Direct, Invert	- ☐	Direct ☐	No
72 ☐	PI Control Bypass ☐	Regul bypass ☐	No, Yes	- ☐	No ☐	No
94 ^{*12)} ☐	CT/VT Selection ☐	CT/VT ☐	Constant Trq, Variable Trq	- ☐	Constant Trq ☐	No
95 ☐	Read Parameters into Keypad from Drive ☐	Para. Read ☐ ☐	No, Yes	- ☐	No ☐	No
96 ☐	Write Parameters to Drive from Keypad ☐	Para. Write ☐	No, Yes	- ☐	No	No
97 ☐	Initialize Parameters to Factory Default Settings ☐	Para. Init ☐ ☐	No, Yes	- ☐	No ☐	No ☐ ☐
98 ☐	Parameter Write Protection	Para. Lock	0 to 255	1	0	Yes

^{*9)} Default value depends on the drive capacity.

^{*10)} FUN 41 is set at its drive capacity before shipping outside. However, drive loses its capacity information after parameter initialization in FUN 97.

If the parameters are initialized, be sure to re-set the drive capacity to the right capacity.

^{*11)} Carrier Frequency according to the drive Capacity (The Carrier Frequency is set to 3kHz for VT Rating)

type	SettingRange	Factory Default	type	SettingRange	Factory Default
SV030IH-2	2 to 10	6kHz	SV075IH-4	2 to 7	6kHz
SV037IH-2	2 to 10	6kHz	SV090IH-4	2 to 6	6kHz
SV045IH-2	2 to 8	6kHz	SV110IH-4	2 to 6	6kHz
SV055IH-2	2 to 8	6kHz	SV132IH-4	2 to 5	5kHz
SV030IH-4	2 to 10	6kHz	SV160IH-4	2 to 4	4kHz
SV037IH-4	2 to 10	6kHz	SV220IH-4	2 to 4	4kHz
SV045IH-4	2 to 8	6kHz	SV315IH-4	2 to 4	4kHz
SV055IH-4	2 to 8	6kHz	SV375IH-4	2 to 4	4kHz

^{*12)} VT is available only for 440V class inverter.

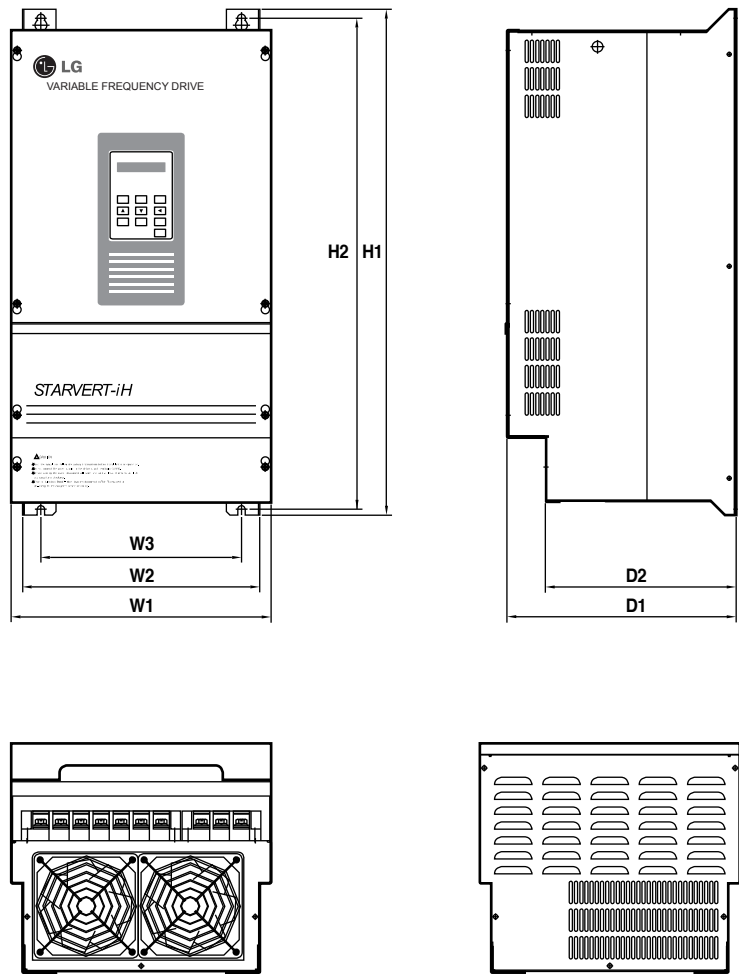
Program parameter descriptions

3. I / O Group

Code [I/O]	Description of I/O Group	Keypad Display	Setting Range	Units	Factory Default	Adjustable during run
00	Jump to Desired Code #	Jump Code[]	1 to 60[]	1[]	1	Yes
01	Multi-function Input 1 (P1 terminal)	P1 Input[]	SPD_L,SPD_M,SPD_H,	-[]	SPD_LD	No
02	Multi-function Input 2 (P2 terminal)	P2 Input[]	JOG,ACCT_L,ACCT_M,	-[]	SPD_MD	No[]
03	Multi-function Input 3 (P3 terminal)	P3 Input[]	ACCT_H,UP,DOWN,	-[]	SPD_HD	No
04	Multi-function Input 4 (P4 terminal)	P4 Input[]	HOLD,DIS_OPT,	-[]	ACCT_LD	No[]
05	Multi-function Input 5 (P5 terminal)	P5 Input[]	COMM_CONN,EXT_DCBR,[]	-[]	ACCT_MD	No
06	Multi-function Input 6 (P6 terminal)	P6 Input[]	EXT_TRIP - SPD_LD	-[]	ACCT_HD	No[]
07	Multi-function Output 1 (OC1 terminal)	OC1 Output[]	FST_LO,FST_HI,FDT_HI,	-[]	STEP_LD	No
08	Multi-function Output 2 (OC2 terminal)	OC2 Output[]	FDT_PULSE,FDT_BAND,	-[]	STEP_MD	No[]
09	Multi-function Output 3 (OC3 terminal)	OC3 Output[]	OL,STALL,LV,RUN,COMM,	-[]	STEP_HD	No
10	Multi-function Output 4 (Aux.1 Relay term.)	AUX1 Output[]	STEP_L,STEP_M,STEP_H,	-[]	COMM[]	No[]
11	Multi-function Output 5 (Aux. 2 Relay term.)	AUX2 Output[]		-[]	COMM[]	No
12	Jog Frequency	Jog freq.[]	0 to FUN 04 []	0.01[]	30.00 [Hz][]	Yes[]
13	Step Speed 1	Step freq-1[]	0 to FUN 04 []	0.01[]	10.00 [Hz][]	Yes[]
14	Step Speed 2	Step freq-2[]	0 to FUN 04 []	0.01[]	20.00 [Hz][]	Yes[]
15	Step Speed 3	Step freq-3[]	0 to FUN 04 []	0.01[]	30.00 [Hz][]	Yes[]
16	Step Speed 4	Step freq-4[]	0 to FUN 04 []	0.01[]	40.00 [Hz][]	Yes[]
17	Step Speed 5	Step freq-5[]	0 to FUN 04 []	0.01[]	50.00 [Hz][]	Yes[]
18	Step Speed 6	Step freq-6[]	0 to FUN 04 []	0.01[]	46.00 [Hz][]	Yes[]
19	Step Speed 7	Step freq-7[]	0 to FUN 04 []	0.01[]	37.00 [Hz][]	Yes[]
20	Acceleration Time 1	Acc time-1	0 to 6000 [sec][]	0.1[]	1.0 [sec][]	Yes[]
21	Deceleration Time 1	Dec time-1[]	0 to 6000 [sec] []	0.1[]	1.0 [sec][]	Yes[]
22	Acceleration Time 2	Acc time-2	0 to 6000 [sec][]	0.1[]	2.0 [sec][]	Yes[]
23	Deceleration Time 2	Dec time-2[]	0 to 6000 [sec] []	0.1[]	2.0 [sec][]	Yes[]
24	Acceleration Time 3	Acc time-3	0 to 6000 [sec][]	0.1[]	3.0 [sec][]	Yes[]
25	Deceleration Time 3	Dec time-3[]	0 to 6000 [sec] []	0.1[]	3.0 [sec][]	Yes[]
26	Acceleration Time 4	Acc time-4	0 to 6000 [sec][]	0.1[]	4.0 [sec][]	Yes[]
27	Deceleration Time 4	Dec time-4[]	0 to 6000 [sec] []	0.1[]	4.0 [sec][]	Yes[]
28	Acceleration Time 5	Acc time-5	0 to 6000 [sec][]	0.1[]	5.0 [sec][]	Yes[]
29	Deceleration Time 5	Dec time-5[]	0 to 6000 [sec] []	0.1[]	5.0 [sec][]	Yes[]
30[]	Acceleration Time 6	Acc time-6	0 to 6000 [sec][]	0.1[]	6.0 [sec][]	Yes[]
31[]	Deceleration Time 6	Dec time-6[]	0 to 6000 [sec] []	0.1[]	6.0 [sec][]	Yes[]
32[]	Acceleration Time 7	Acc time-7	0 to 6000 [sec][]	0.1[]	7.0 [sec][]	Yes[]
33[]	Deceleration Time 7	Dec time-7[]	0 to 6000 [sec] []	0.1[]	7.0 [sec][]	Yes[]
34[]	Output Voltage / Current Meter (LM Meter) Selection	Analog meter []	Voltage,Current	-[]	Voltage[] []	Yes[]
35[]	Output Voltage / Current Meter (LM Meter) Adjustment (15V Pulse)	Analog adj.	0 to 120 [%]	1[]	100 [%][]	Yes[]
36[]	FM Meter Output Adjustment (15V Pulse)	FM adj.	0 to 120 [%]	1[]	100 [%][]	Yes[]
37[]	IO Meter Output Adjustment (4 to 20mA)	DAC adj.	0 to 120 [%]	1[]	100 [%][]	Yes[]
38[]	Frequency Steady Level	FST-freq.	0 to FUN 04 []	0.1[]	0.50 [Hz][]	No[]
39[]	Frequency Detection Level	FDT-freq.	0 to FUN 04	0.1[]	60.00 [Hz][]	No[]
40[]	Frequency Detection Bandwidth	FDT-band	0 to 30 [Hz][]	0.1[]	1.00 [Hz][]	No[]
41	Multiplier Constant for Speed Display in 'DRV 04'	Mul. Factor []	0 to 999	1[]	100[]	Yes[]
42	Divider Constant for Speed Display in 'DRV 04'	Div. factor	1 to 999	1[]	100[]	Yes[]
43[]	Status of Input Terminals	Ter. Input[]	-[]	-[]	-[]	-[]
44	Status of Output Terminals	Ter. Output	-[]	-[]	-[]	-[]
45	Software Version	S/W version	-[]	-[]	2.00[]	-[]
46[]	Fault History 1	Last fault 1	Fault Status, Freq. at Fault,	-[]	-[]	Yes[]
47[]	Fault History 2	Last fault 2	Current at Fault[]	-[]	-[]	Yes[]
48[]	Option 1 Selection[]	Option 1	None,RS485,ModBus RTU,FNet[]	-[]	None[]	No[]
49[]	Option 2 Selection[]	Option 2	None,MM[]	-[]	None[]	No[]
50 ^{*13)}	Drive number for Option[]	Inv. Number	1 to 32	1[]	1[]	Yes[]
51[]	Baud rate for Option[]	Baud-rate	1200,2400,4800,9600,19200	-[]	9600 BPS[]	Yes[]
52[]	Communication Timeout[]	Comm. Timeout	0 to 60 [sec]	0.1[]	10.0 [Sec][]	Yes[]
53[]	PG Slip Frequency for PG Option[]	PG Slip Freq	0 to 10 [Hz][]	0.01[]	5.00 [Hz][]	Yes[]
54[]	PG-P Gain for PG Option[]	PG. P-Gain[]	0 to 225[]	1[]	1[]	Yes[]
55[]	PG-I Gain for PG Option[]	PG. I-Gain[]	0 to 225[]	1[]	1[]	Yes[]
56[]	PG-Filter Gain for PG Option[]	PG. F-Gain[]	0 to 225[]	1[]	100[]	Yes[]
57[]	Encoder Selection for PG Option[]	Enc pulse	100,500,512,1000,1024,2000,2048,4000[]	-[]	512 Pulse[]	Yes[]
58[]	Digital Input for DI/DA Option[]	DI Mode[]	None,Freq. 1,Freq. 2[]	-[]	Freq. 1[]	Yes[]
59[]	Analog Output for DI/DA Option	DA Mode	Freq.,Voltage,Current[]	-[]	Freq.	Yes[]
60[]	Analog Output Adjustment[]	DA adj.	80 to 120 [%][]	1[]	100 [%][]	Yes
61	Drive Number for FNet	FN:St. ID	1 to 63	1[]	1	No

^{*13)} Operation related parameters(FUN50 ~ FUN61) - Please refer to specific option manual.

Dimension(mm)



(unit : mm)

Class	Type	W1	W2	W3	H1	H2	D1	D2
200-230V	SV030iH-2	375	360	275	615	593.5	277.5	230.5
	SV037iH-2	375	360	275	615	593.5	277.5	230.5
	SV045iH-2	375	360	275	780	758.5	300.7	230.5
	SV055iH-2	375	360	275	780	758.5	300.7	230.5
380-460V	SV030iH-4	350	319.2	270	680	662	308.2	256.6
	SV037iH-4	350	319.2	270	680	662	308.2	256.6
	SV045iH-4	375	359.6	275	780	760.5	326	259
	SV055iH-4	375	359.6	275	780	760.5	326	259
	SV075iH-4	375	359.6	275	780	760.5	326	259
	SV090iH-4	530	507	430	780	762	335	286.2
	SV110iH-4	530	507	430	790	762	335	286.2
	SV132iH-4	530	507	430	1000	982	345	298
	SV160iH-4	530	507	430	1000	982	345	298
	SV220iH-4	680	649	540	998	968.5	403	343

Braking unit

Model name		SV037DBH-2	SV037DBH-4	SV075DBH-4
Max. DC Input Voltage		DC 400V (200V class)		DC 800V (400V class)
Capacity		37kW / 200V	37kW / 400V	75kW / 400V
Required resistor		5kW 3Ω	5kW 12Ω	10kW 6Ω
☐ SV030iH-2 ☐ SV037iH-2 ☐ SV045iH-2 ☐ SV055iH-2 ☐ SV030iH-4 Applicable type & braking resistor combination ☐ SV037iH-4 ☐ SV045iH-4 ☐ SV055iH-4 ☐ SV075iH-4 ☐ SV090iH-4 ☐ SV110iH-4 ☐ SV132iH-4 ☐ SV160iH-4 ☐ SV220iH-4	SV030iH-2	1 unit (1x5kW 3Ω)		
	SV037iH-2	1 unit (1x5kW 3Ω)		
	SV045iH-2	Parallel 2 units (2x5kW 3Ω)		
	SV055iH-2	Parallel 2 units (2x5kW 3Ω)		
	SV030iH-4		1 unit (1x5kW 12Ω)	
	SV037iH-4		1 unit (1x5kW 12Ω)	
	SV045iH-4			1 unit (2x5kW 12Ω)
	SV055iH-4			1 unit (2x5kW 12Ω)
	SV075iH-4			1 unit (2x5kW 12Ω)
	SV090iH-4			Parallel 2 units (4x5kW 12Ω)
	SV110iH-4			Parallel 2 units (4x5kW 12Ω)
	SV132iH-4			Parallel 2 units (4x5kW 12Ω)
	SV160iH-4			Parallel 2 units (4x5kW 12Ω)
	SV220iH-4			
Braking torque 150%		150%		
Enable duty 5% ED		5% ED		
Output signal		Fault output contact, Slave control signal		
Protection		Heat sink overheat, Inverter Overheat		

RS-485 / Modbus-RTU

Category	Item	Specifications
Performance	Communication method	RS485
	Transmission form	Multi-drop Link System
	Applicable type	iH series
	Computer	PC or FA computer (needs RS232-485 converter)
	Number of drives	Maximum 32 drives connectable
	Transmission distance	Max. 1200m
Hardware	Installation	On control PCB inside the drives
	Power Supply	5V DC from drive main PCB
	Control Communication	5V DC. Max.100mA (contained in Communication card)
Communication	Communication speed	19200/9600/4800/2400/1200 bps selectable
	Control procedure	Asynchronous communication system
	Communication system	Half duplex system
	Character system	RS485 : ASCII (8 bit) / ModBus-RTU : Binary
	Stop bit length	1 bit
	Sum check	2 bytes
	Parity check	None

F-net

Item	Specifications
Communication speed	1M bps
Communication type	Manchester Biphas-L, Frame Synchronous type
Cable	Twisted Pair Shielded Cable Name : LIREC-AMESB 1φ(PC 717 6705) Manufacturer : LG Cable
No. of node	Max. 64 per line
Distance	Max. 750m
Frame Format	FieldBus (IEC TC65/SC65C/WG6 65C 90.8)

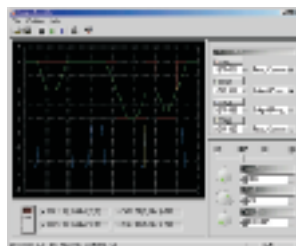
Driveview 2.0

- Versatile, Easy-to-Use Software for LG Drives
- Provides Intuitive Means for Monitoring, Control and Commissioning of Drives
- Runs on RS-232/485 Serial Network Connection
- Designed for Microsoft Windows® 95 or later

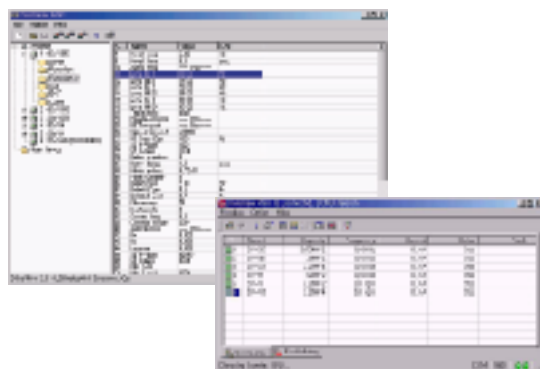
Keypad Emulator



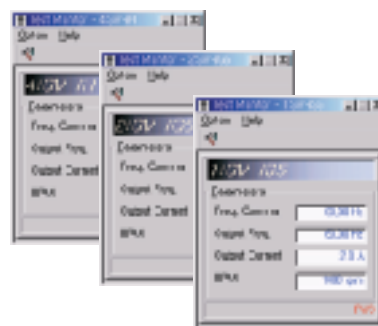
Graphic Monitor



Parameter Editor



Text monitor



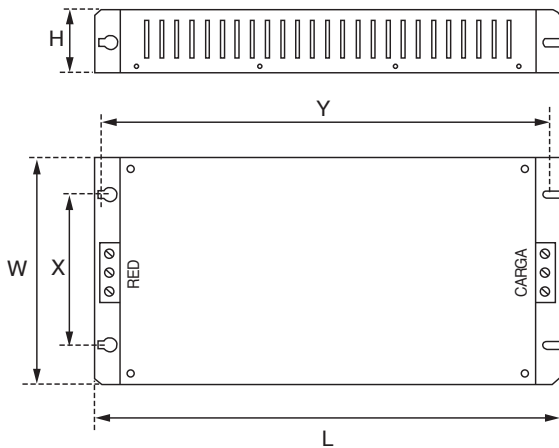
Peripheral devices

Type	kW	Breaker	Magnetic contactor	Power □ terminal wire(mm ²)	Earth Line (mm ²)	DC reactor	AC reactor	Fuse
SV030iH-2	30	ABS203/225	GMC-150	60	22	0.35mH, 152.0A	0.08mH, 134.2A	150A
SV037iH-2	37	ABS203/225	GMC-180	60	22	0.30mH, 180.0A	0.07mH, 160.6A	200A
SV045iH-2	45	ABS403/300	GMC-220	100	38	0.28mH, 221.0A	0.06mH, 198.0A	250A
SV055iH-2	55	ABS403/350	GMC-300	100	38	0.25mH, 270.0A	0.05mH, 242.0A	300A
SV030iH-4	30	ABS203/125	GMC-85	22	14	1.19mH, 76.0A	0.33mH, 67.1A	100A
SV037iH-4	37	ABS203/150	GMC-100	22	14	0.98mH, 93.0A	0.27mH, 82.5A	100A
SV045iH-4	45	ABS203/175	GMC-125	38	22	0.89mH, 112.0A	0.22mH, 100.1A	100A
SV055iH-4	55	ABS203/225	GMC-150	38	22	0.75mH, 135.0A	0.18mH, 121.0A	150A
SV075iH-4	75	ABS203/225	GMC-180	60	22	0.44mH, 187.0A	0.13mH, 167.2A	200A
SV090iH-4	90	ABS203/300	GMC-220	60	38	0.35mH, 225.0A	0.11mH, 201.3A	250A
SV110iH-4	110	ABS403/300	GMC-300	80	38	0.30mH, 274.0A	0.09mH, 245.3A	300A
SV132iH-4	132	ABS403/400	GMC-400	100	38	0.26mH, 324.0A	0.08mH, 290.4A	300A
SV160iH-4	160	ABS603/500	GMC-400	100	60	0.22mH, 399.0A	0.06mH, 357.5A	400A
SV220iH-4	220	ABS603/600	GMC-600	100x2	60			500A

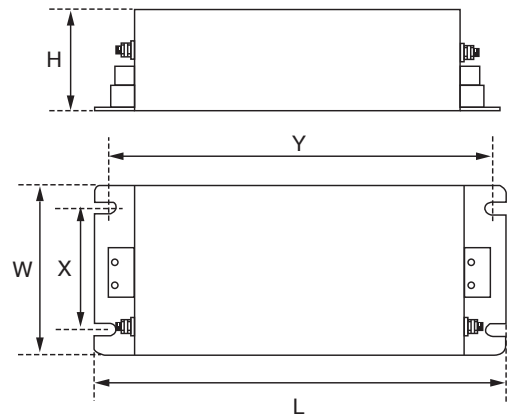
RFI Filter

IH Series			Standard Filter											
type	Power	Code	Current	Voltage	Leakage Current		Dimensions			Mounting		Weight	Mount	Output Chokes
							L	W	H	Y	X			
THREE PHASE	□	□	□	□	Nom. MAX.□		□			□		□	□	□
SV030iH-2	30kW□	FE-T150-2	150A□	250VAC□	1.3A	150A□	480	X 200	X 160□	468	X 166□	--□	FS-3□	
SV037iH-2	37kW□	FE-T170-2	170A□	250VAC□	1.3A	150A□	480	X 200	X 160□	468	X 166□	--□	FS-3□	
SV045iH-2	45kW□	FE-T230-2	230A□	250VAC□	1.3A	150A□	580	X 250	X 205□	560	X 170□	--□	FS-4□	
SV055iH-2	55kW□	FE-T280-2	280A□	250VAC□	1.3A	150A□	580	X 250	X 205□	560	X 170□	--□	FS-4□	
SV030iH-4	30kW□	FE-T070-2	70A□	380VAC□	1.3A	150A□	350	X 180	X 90□	338	X 146□	--□	FS-3□	
SV037iH-4	37kW□	FE-T100-2	100A□	380VAC□	1.3A	150A□	425	X 200	X 130□	408	X 166□	--□	FS-3□	
SV045iH-4	45kW□	FE-T120-2	120A□	380VAC□	1.3A	150A□	425	X 200	X 130□	408	X 166□	--□	FS-3□	
SV055iH-4	55kW□													
SV075iH-4	75kW□	FE-T170-2	170A□	380VAC□	1.3A	150A□	480	X 200	X 160□	468	X 166□	--□	FS-3□	
SV090iH-4	90kW□	FE-T230-2	230A□	380VAC□	1.3A	150A□	580	X 250	X 205□	560	X 170□	--□	FS-4□	
SV110iH-4	110kW□	FE-T280-2	280A□	380VAC□	1.3A	150A□	580	X 250	X 205□	560	X 170□	--□	FS-4□	
SV132iH-4	132kW□													
SV160iH-4	160kW□	FE-T400-2	400A□	380VAC□	1.3A	150A□	700	X 370	X 250□	640	X 300□	--□	FS-4□	
SV220iH-4	220kW	FE-T480-2	480A	380VAC	1.3A	150A□	700	X 370	X 250	640	X 300	--	FS-4	

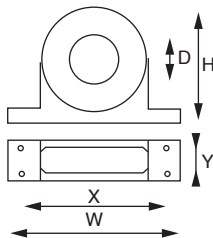
FF Series (Footprint)



FE Series (Standard)



FS Series (output chokes)



Type	D	W	H	X	O
FS-1	21	85	46	7-	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

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 a 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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