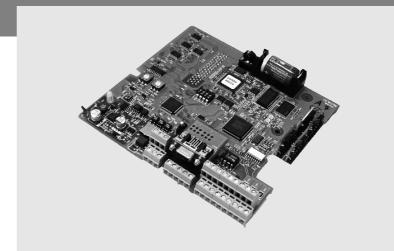
## 3G3RV-P10ST□-E

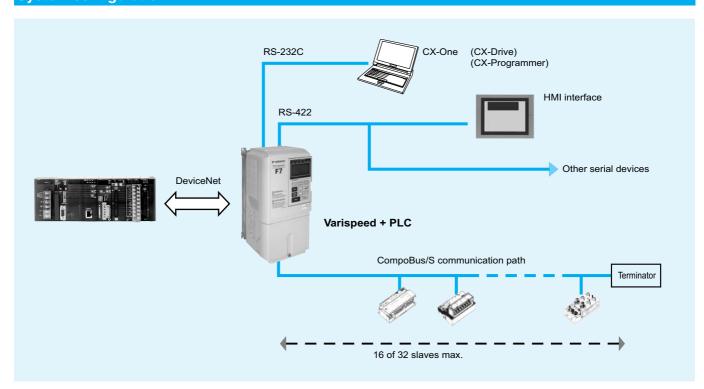
# G7/F7/L7/E7 inverter PLC

## The OMRON PLC technology embedded in the OMRON Yaskawa inverter family

- OMRON PLC programmability in the OMRON Yaskawa inverters.
- Flexibility and intelligence in the OMRON Yaskawa inverter family.
- Wireless installation and seamless access to the inverter parameters and analogue/digital inputs and outputs.
- OMRON Compobus/S fieldbus inside. Thus, able to control up to 256I/O's.
- Easy to integrate in the automation world: DeviceNet type available.
- Standard OMRON tools can be used for programming and commissioning.
- Ideal for applications like:
  - Pump sequencing, remote control, water treatment, etc together with the HVAC inverter: E7&E7 IP54.
  - Lift as control sequence inside, using the lift inverter: L7.
  - Cranes, winding/rewinding, position control, others combined with the powerful flux vector control inverter: F7Z.
  - General purpouse using the high technology of G7 3-Level vector control.

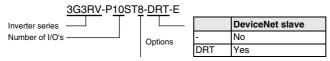


## System configuration



## Type designation

## **PLC** inverter



	Output	RTC	RS422	Remarks
-	NPN	NO	NO	
1	NPN	NO	YES	
2	NPN	YES	NO	
3	NPN	YES	YES	
5	PNP	NO	NO	
6	PNP	NO	YES	
7	PNP	YES	NO	
8	PNP	YES	YES	Standard

## **Specifications**

## Specifications by product

Item	3G3RV-P10ST8-E	3G3RV-P10ST8-DRT-E
PLC core	CPM2C-S	CPM2C-S
Inputs	6 24 VDC inputs	6 24 VDC inputs
Outputs	4 sourcing/PNP transistor outputs	4 sourcing/PNP transistor outputs
Peripheral port	Yes	Yes
RS-232C port	Yes	Yes
RS-422 port	No	Yes
Calendar/clock	Yes	Yes
Memory backup	Flash memory and battery	Flash memory and battery
Compobus/S master interface	Yes	Yes
Encoder interface	Yes	Yes
DeviceNet Slave interface	No	Yes

## **General specifications**

Item		Specifications		
		3G3RV-P10ST8-E	3G3RV-P10ST8-DRT-E	
Rated power supply voltage		24 VDC +10%/-15% (external power supply for	I/O)	
Communications power supply voltage			11 to 25 VDC (supplied by communications connector)	
	Internal power	2 W (supplied internally) (see note)	3 W (supplied internally) (see note)	
supply	Communications power supply		30 mA max.	
Vibration resistance	•	10 to 20 Hz, 9.8 m/s2 max.		
		20 to 50 Hz, 2 m/s2 max		
Ambient operating ten	•	-10 to 45 °C		
Ambient operating rela		10% to 90% (no condensation)		
Ambient storage temp	erature	-20 to 70 °C		
Atmosphere		Must be free from corrosive gas		
Control method		Store program method		
I/O control method		Cyclic scan method		
Programming languag	е	Ladder chart method		
Instruction length		1 step/1 instruction; 1 to 5 words/1 instruction		
Instruction types	Basic	14 types (same as for programmable slaves)		
	Special	105 types, 185 instructions (same as for programmable slaves)		
Processing speed	Basic instructions	0.64 μs (LD)		
	Special instructions	7.8 µs (MOV)		
Program capacity		4,096 words		
Maximum number of I	/O points	10		
Input bits		00000 to 00015 (6 physical inputs)		
Output bits		01000 to 01003 (4 physical outputs)		
CompoBus/S input bits	s	128 bits: IR 02000 to IR 02715 (bits not used for CompoBus/S input bits can be used for work bits.)		
CompoBus/S output b	its	128 bits: IR 03000 to IR 03715 (bits not used for CompoBus/S output bits can be used for work bits.)		
Inverter interface		Direct interface with inverter through		
		• IR-memory		
		• DM-memory		
		Transfer command		
Inverter interface bits		176 bits: IR 20000 to IR 21015		
Encoder interface bits		48 bits: IR 02900 to IR 02915 and IR 04800 to IR 04915		
Work bits		448 bits: IR 02800 to IR 02815, IR 03800 to IR 04715, and IR 21100 to IR 22715		
Special bits (SR area)		448 bits: SR 22800 to SR 25507 (words SR 228 to SR 255)		
Temporary bits (TR ar	,	8 bits (TR 0 to TR 7)		
Holding bits (HR area)		320 bits: HR 0000 to HR 1915 (words HR 00 to 19)		
Auxiliary bits (AR area	u)	384 bits: AR 0000 AR 2315 (words AR 00 to	AR 23)	

Item		Specifications		
		3G3RV-P10ST8-E	3G3RV-P10ST8-DRT-E	
` ′		256 bits: LR 0000 to LR 1515 (words LR 00 to LR 15)		
Timers/counters		256 timers/counters (TIM/CNT 000 to TIM/CNT)  1-ms timers: TIMHH()  10-ms timers: TIMH(15)  100-ms timers: TIM  1-s/10-s timers: TIML()  Decrementing counters: CNT  Reversible counters: CNTR(12)		
CompoBus/S master functions		Remote I/O devices can be allocated up to 256 I/O points (128 inputs and 128 outputs) in input area IR 020 to IR 027 and output area IR 030 to IR 037.  • The node numbers can be set to 0 to 7 (128-point mode) or 0 to 15 (256-point mode).		
		The communications mode can be set to high-speed (max. length 500 m).	, , ,	
DeviceNet slave functions		Up to 64 words (32 input words and 32 output words) can be allocated to the DeviceNet master's I/O. The master's I/O can be allocated to the following data areas:  IR 000 to IR 049  IR 200 to IR 227  DM 0000 to DM 2047  LR 00 to LR 15  HR 00 to HR 19  AR 00 to AR 23 (3G3RV-P10ST ' master; read-only)  TC 000 to TC 255  • Explicit message communications are supported. Any 3G3RV-P10ST data area can be accessed from the DeviceNet master.  • The communications speed can be set to 500 kbps (total network length 100 m max.), 250 kbps (total network length 250 m max.), or 125 kbps (total network length 500 m max.).		
DM area	Read/write	2,029 words (DM 0000 to DM 0999, DM 1019 to DM 2 DM 2000 to DM 2021: error log storage area	2047)	
	Read only	456 words (DM6144 to 6599)		
	Inverter interface	19 words (DM 2022 to DM 2040)		
	Encoder interface	14 words (DM 1986 to DM 1999)		
	PLC setup	56 words (DM 6599 to DM 6655)		
Interrupts		Interrupt inputs		
		2 inputs Response time: 50 μs		
		Interval timer interrupts	Scheduled interrupts	
		1 input	Concadica interrupts	
		Set value: 0.5 to 319,968 ms	One-shot interrupt	
		Precision: 0.1 ms		
High-speed counters		No interrupt		
see note 5  Differential phase mode (5 kHz) Pulse plus direction input mode (20 kHz) Up/down input mode (20 kHz) Increment mode (20 kHz) Interrupt inputs (counter mode)		(An interrupt can be generated when the count equals  No interrupt	s the set value or the count lies within a preset range.)	
	2 inputs Incrementing counter (2 kHz) Decrementing counter (2 kHz)	Count-up interrupt		
Encoder interface		3 input modes:     Differential-phase (up/down)     Pulse plus direction     Up/down pulse  Maximum input frequency 50 kHz  Maximum counter range 4,294,967,295 (232-1)  Two capture registers, 3 selectable registration inputs One comparison value Counter reset through software or Z-phase		
Pulse outputs		Interrupt function  • 2 outputs: Single-phase pulse output without acceleration/deceleration (see note 6.) 10 Hz to 10 kHz • 2 outputs: Variable duty ratio pulse output (see note 6.)		
		<ul> <li>0.1 to 999.9 Hz, duty ratio 0 to 100%</li> <li>1 output: Pulse output with trapezoidal acceleration/deceleration (see note 6.) Pulse plus direction output, up/down pulse output, 10 Hz to 10 kHz </li> </ul>		
Synchronized pulse control		1 point, see notes 5 and 6 Input frequency range: 10 to 500 Hz, 20 Hz to 1 kHz, or 300 Hz to 20 kHz Output frequency range: 10 Hz to 10 kHz		
Pulse catch inputs		2 bits Minimum pulse input: 50 µs max. Used in common by input interrupts and input interrupt counter mode.		
Analog volume		None		
Input time constant (ON response time =		Determines the input time constant for all inputs. (sett		
Clock/Calendar functi	ion	Shows the current year, month, day of the week, day	of the month, hour, minute, and second.	
Communication function		Port 1 = Peripheral and RS-422: Host link, peripheral bus, no-protocol, programming console Port 2 = RS-232C port: Host link, no-protocol, 1:1 PLC link, 1:1 NT link		

Item		Specifications		
		3G3RV-P10ST8-E	3G3RV-P10ST8-DRT-E	
Power-interruption I	hold function	Holds the contents of HR, AR, CNT, and DM areas.		
Memory backup (see notes 1 and 2.)		Flash memory: Program, read-only DM area, and PC setup Memory backup: The read/write DM area, HR area, AR area, and counter values are backed up. (The battery has a 5-year lifetime at 25 °C and it is replaceable.)		
Self-diagnostic fund	etion	CPU errors, memory errors, communications errors, setting errors, battery errors		
Program check		No END instruction, program errors (regularly checked during operation)		
Connected tools	CX-programmer	After version 2.1		
	Programming console	C200H-PRO27, CQM1-PRO01		
	SSS	PC98 & PC/AT (SYSMAC support software, all vers	ions)	
CX-drive		Version 1 or higher		

- Note: 1. The DM area, HR area, AR area, and counter values are backed up. If the backup battery or capacitor is discharged, the contents of these areas will be lost and the data values will revert to the defaults.
  - 2. The contents of the program area, read-only DM area (DM6144 to DM6599), and PLC setup (DM 6600 to DM 6655) are stored in flash memory. The contents of these areas will be read from flash memory the next time the power is turned ON, even if the backup battery or capacitor is discharged. When data has been changed in any of these areas, write the new values to flash memory by switching the 3G3RV-P10ST to MONITOR or RUN mode, or by turning the power OFF and then ON again.
- 3. Changes made while in MONITOR mode using, for example, online editing, are written to flash memory in real-time.
- **4.** The above figure for power consumption includes the power consumption of the programming console.
- This input is shared by the high-speed counter and synchronized pulse control functions.
- **6.** This output is shared by the pulse output and synchronized pulse control functions.

#### I/O specifications

#### Input specifications

Item	Inputs	Specification	
Input voltage	All	24 VDC +10%/ <sub>-15%</sub>	
Input impedance	IN 00000 to IN 00001	2.7 kΩ	
	IN 00002 to IN 00004	3.9 kΩ	
	IN 00005	4.7 kΩ	
Input current	IN 00000 to IN 00001	8 mA typical	
	IN 00002 to IN 00004	6 mA typical	
	IN 00005	5 mA typical	
ON voltage/current	IN 00000 to IN 00001	17 VDC min., 5 mA	
	IN 00002 to IN 00005	14.4 VDC min., 3.5 mA	
OFF voltage/current	All	5.0 VDC max., 1.1 mA	
ON delay	All	1 to 80 ms max. Default: 10 ms (see note.)	
OFF delay	All	1 to 80 ms max. Default: 10 ms (see note.)	
Circuit configuration	IN 00000 to IN 00001	COM O Input LED ST	
	IN 00002 to IN 00004	COM COM Input LED S	
	IN 00005	TSO Ω SIPPUL LED SE	

Note: The input time constant can be set to 1, 2, 3, 5, 10, 20, 40, or 80 ms in the PLC setup.

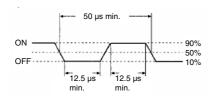
## **High-speed counter inputs**

The following unit input bits can be used as high-speed counter inputs. The maximum count frequency is 5 kHz in differential phase mode and 20 kHz in the other modes.

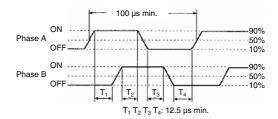
Input	Function				
	ifferential phase mode Pulse plus direction input mode Up/down input mode Increment mode				
IN 00000	A-phase pulse input	Pulse input	Increment pulse input	Increment pulse input	
IN 00001	B-phase pulse input	Direction input	Decrement pulse input	Normal input	
IN 00002	Z-phase pulse input or hardware reset input (IN00002 can be used as a normal input when it is not used as a high-speed counter input.)				

The minimum pulse widths for inputs IN00000 (A-phase input) and IN00001 (B-phase input) are as follows:

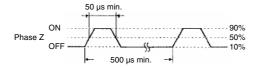
Pulse plus direction input mode, up/down inputmode, Increment mode



Differential phase mode



The minimum pulse width for input IN00002 (Z-phase input) is as follows:



## **Interrupt inputs**

3G3RV-P10ST is equipped with inputs that can be used as interrupt inputs (interrupt input mode or counter mode) and quick-response inputs. The minimum pulse width for these inputs is  $50 \mu s$ .

Inputs IN 00003 and IN 00004 can be used as interrupt inputs.

#### **Output specifications**

#### **Transistor outputs (sourcing/PNP)**

Item	Specification		
Maximum switching capacity	4.5 to 30 VDC, 0.2 A/output		
Minimum switching capacity	0.5 mA		
Maximum inrush current	0.9 A for 10 ms		
Leakage current	0.1 mA		
Residual voltage	1.5 V max.		
ON response time	20 µs max.		
OFF response time	40 μs max. for 4.5 to 26.4 VDC, 10 to 100 mA 0.1 ms max for 4.5 to 30 VDC, 10 to 200 mA		
Fuse	One fuse per output (cannot be replaced by user)		
Circuit configuration	Output LED COM (+) Internal circuits OUT 24 VDC OUT		

Note: When using OUT 01000 or OUT 01001 as a pulse output, connect a dummy resistor as required to bring the load current between 0.01 and 0.1 A. If the load current is below 0.1 A, the ON-to-OFF response time will be longer and high-speed pulses (source-type transistor outputs) will not be output. If the load current is above 0.1 A, the transistor will generate more heat and components may be damaged.



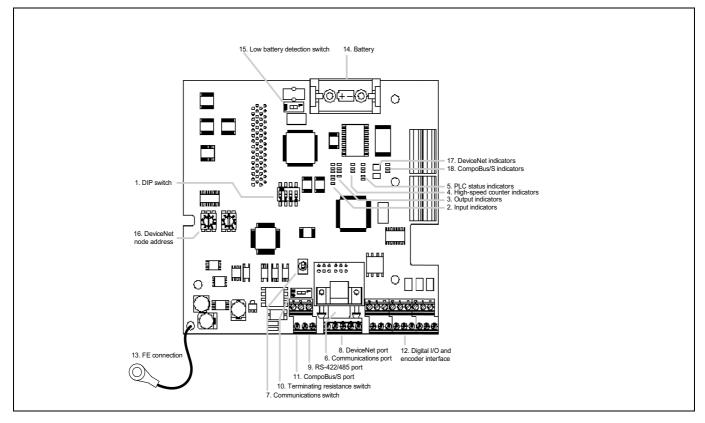
Do not apply voltage in excess of the maximum switching capacity to an output terminal. It may result in damage to the product or fire.

## **Encoder input specifications**

Signal level	All	EIA RS-422-A standards
Input impedance	A- and B-phase	280 Ω
	Z-phase	260 Ω
Response frequency	A- and B-phase	50 kHz max.
	Z-phase	1 kHz max.
Circuit configuration	A- and B-phase	410 CI 220 pF 410 CI 330 CI
	Z-phase	20 180 D 560 P 180 D 180

#### Operation

#### **CPU** unit component descriptions



#### 1. DIP switch

• RS-232C and peripheral port settings

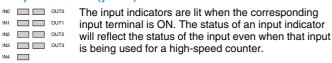
	Pin 1	Effective port settings
ON	(default)	The ports operate according to the settings in the PLC setup. RS-232C port settings: DM 6645 to DM 6649 Peripheral port settings: DM 6650 to DM 6654
	ON	The ports operate with the standard communications settings.

#### · Operating mode at startup

Pin 2 determines the operating mode at startup only if there isn't a programming device connected to the peripheral port.

Programming device connected	•	Startup mode with Pin 2 ON
None	RUN mode	PROGRAM mode
Programming console	Operating mode set on the programming con mode switch	
Other device	PROGRAM mode	

#### 2. Input indicators (yellow)



- Note: 1. When interrupt inputs are used in interrupt input mode, the indicator may not light even when the interrupt condition is met if the input is not ON long enough.
  - Input indicators will reflect the status of the corresponding inputs even when the PLC is stopped, but the corresponding input bits will not be refreshed.

#### 3. Output indicators (yellow)

The output indicators are lit when the corresponding output terminal is ON. The indicators are lit during I/O refreshing. The status of an output indicator will also reflect the status of the corresponding output when the output is being used as a pulse output.

#### 4. High-speed counter indicators (yellow)

- The indicators are lit when the corresponding input terminal is ON.
- 5. PLC status indicators

The following indicators show the operating status of the PLC.

	Indicator	Status	Meaning
PWR	PWR	ON	Power is being supplied to the unit
RUN	(green)	OFF	Power isn't being supplied to the unit
ERR/ALM COMM1	RUN (green)	ON	The PLC is operating in RUN or MONITOR mode
COMM2		OFF	The PLC is in PROGRAM mode or a fatal error has occurred.
	ERR/ALM (red)	ON	A fatal error has occurred. (PLC operation stops.)
		Flashing	A non-fatal error has occurred. (PLC operation continues.)
		OFF	Indicates normal operation.
	COMM1 (yellow)	Flashing	Data is being transferred via the peripheral or RS-422/485 port.
		OFF	Data isn't being transferred via communications port.
	COMM2 (yellow)	Flashing	Data is being transferred via the RS-232C port
		OFF	Data isn't being transferred via communications port.

#### 6. Communications port

Connects the PLC to a programming device (including programming consoles), host computer, or standard external device. Use a proper connecting cable (CPM2C-CN111, CS1W-CN114, CS1W-CN118, or CS1W-CN226).

Note: 1. A CQM1H-PRO01-E programming console can be connected directly to the PLC.

- A C200H-PRO27-E programming console can be connected directly to the PLC with a CS1W-CN224/CN624 connecting cable.
- Use a CPM2C-CN111 or CS1W-CN114 connecting cable to connect to the communications port as a peripheral port. The communications port can be used simultaneously as both a peripheral port and RS-232C port by using the CPM2C-CN111 connecting cable.
- 4. Use a CPM2C-CN111, CS1W-CN118 or CS1W-CN226 connecting cable to connect to the communications port as a RS-232C port. The communications port can be used simultaneously as both a peripheral port and RS-232C port by using the CPM2C-CN111 connecting cable

Note: The peripheral port and RS-422/485 port cannot be used simultaneously. When using the peripheral port disconnect any devices connected to the RS-422/485 port.

#### 7. Communications switch



Switch to select port 1 type of connected device

Position	Communication port 1	
OFF (up) (default)	Programming console	
ON (down)	RS-422/485 communication	

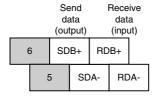
#### 8. DeviceNet port (-DRT versions only)

Terminal arrangement

V-	CAN-L	Shield	CAN-H	V+
----	-------	--------	-------	----

#### 9. RS-422/485 port

Used to connect to host computers, or standard external devices. Terminal arrangement



Note: The maximum line length is 500 m.

The peripheral port and RS-422/485 port cannot be used simultaneously. When using the peripheral port disconnect any devices connected to the RS-422/485 port.

When using RS-485 communication, connect RDA- to SDA- and RDB+ to SDB+.

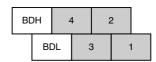
#### 10. Terminating resistance switch

	Position	Termination
7	OFF (right) (default)	Disabled
[	ON (left)	Enabled

Set this switch to ON only for double-ended connection to a host link network.

#### 11. CompoBus/S port

Terminal arrangement

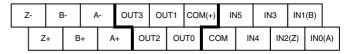


Use special flat cable or VCTF cable for the transmission lines that connect the nodes in the CompoBus/S I/O Link. (Special flat cables and VCTF cables cannot be combined in the same system.)

Name	Model number	Specifications
Flat cable	XB1T-W10	4-core flat cable, 0.75 mm <sup>2</sup>
VCTF cable		2-core VCTF, 0.75 x 20

#### 12. Digital inputs and outputs and encoder interface

Connects the CPU unit to external input and output devices. Sourcing outputs



#### 13. Functional earth-wire

To be connected the earth connection inside the inverter.

#### 14. Battery

#### 15. Low battery detection switch

This switch enables or disables the detection of a low-battery error.

	Position	Low-battery detection
7	OFF (right) (default)	Error detection enabled
	ON (left)	Error detection disabled

#### 16. DeviceNet node-number (-DRT versions only)

Please refer to the DeviceNet section

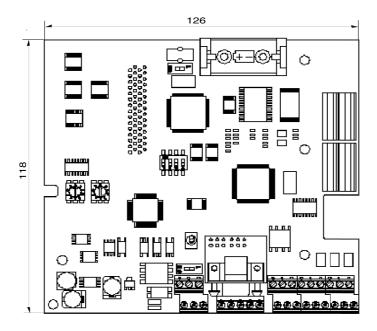
#### 17. DeviceNet indicators (-DRT versions only)

Please refer to the DeviceNet section

#### 18. CompoBus/S indicators

	Indicator	Status	Meaning
□ SD	SD (yellow)	Flashing	Data is being transmitted via CompoBus/S
RD ERC		OFF	Data isn't being transmitted via CompoBus/S
	RD (yellow)	Flashing	Data is being received via CompoBus/S
		OFF	Data isn't being received via CompoBus/S
	ERC (red)	Flashing	A CompoBus/S communications error occurred.
		OFF	A CompoBus/S communications error hasn't occurred.

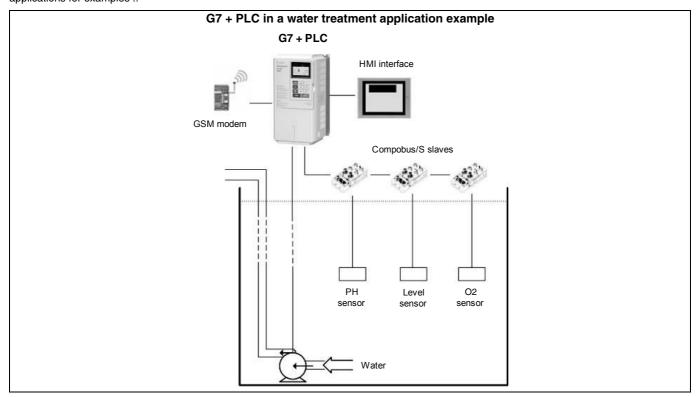
## **Dimensions**



## Application examples

#### G7 + PLC

Varispeed G7 is the OMRON Yaskawa solution using 3 level PWM control technology that provides lower surge voltage, low leakage current, low bearing current, low acoustic noise and better EMC. By combining with PLC option board, it is the ideal solution for winding/unwiding applications, handling / transfer / palletizer point-to-point positioning applications, press control applications, extruder control applications and pump applications for examples ..

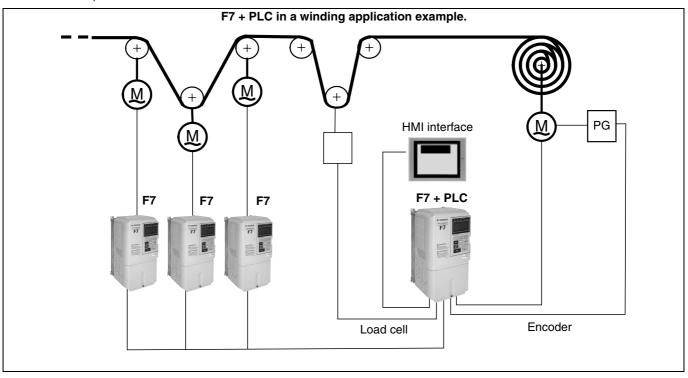


**Note:** For detailed information about the inverter, please see the Varispeed G7 series section.

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## F7 + PLC

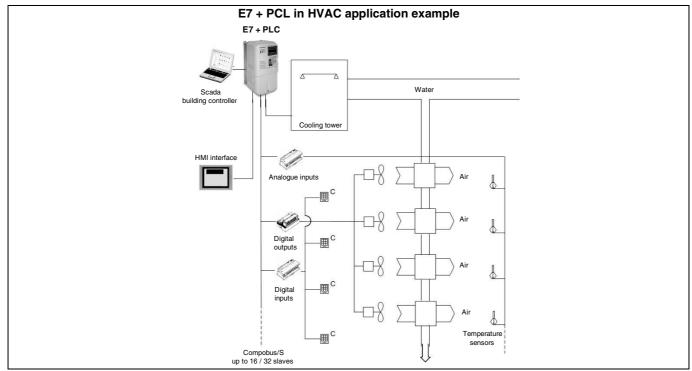
The F7 drive is a flux vector control inverter. It is intended to handle every conventional drive application found in a typical industrial manufacturing plant from simple variable torque pumping to sophisticated networked material handling. By combining with PLC option board, is ideal solution winding/unwiding applications, handling/ transfer/ palletizer point-to-point positioning applications, food processing, packaging, printing, and textile machines for example .



Note: For detailed information about the inverter, please see into the Varispeed F7 series section.

#### E7 + PLC

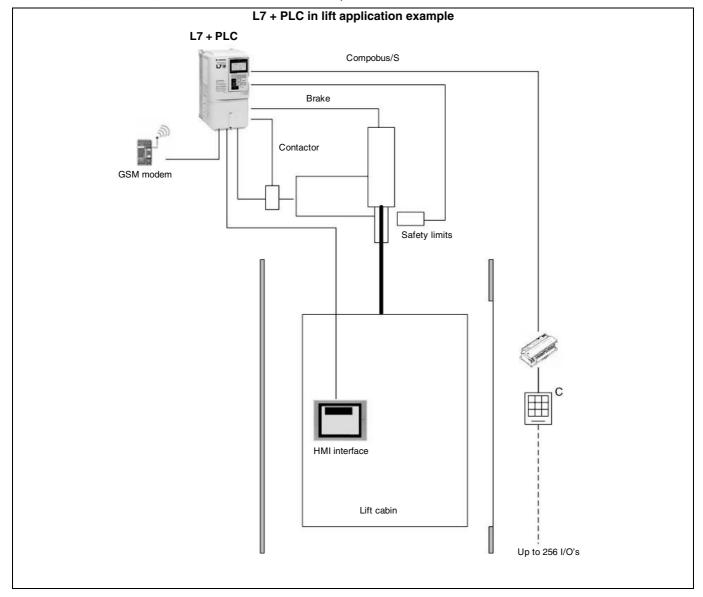
Varispeed E7 is the OMRON Yaskawa solution for energy saving applications The E7 is designed for variable torque applications such as fans and centrifugal pumps. By combining with PLC option board, it is the ideal solution for water treatment, pump squencing, building automation and fan applications for example...



Note: For detailed information about the inverter, please see into the Varispeed E7 series section.

#### L7 + PLC

The L7 is the ultimate drive for lift applications up to 3m/s. High starting torque, silent operation, lift-specific operator interface and operation with both AC and PM motors are standard features of the L7 inverter. By combining with PLC option board, it is the ideal solution for controlling distributed I/O's, lift cabin HMI, GSM modem to send alarms for example..



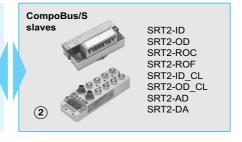
Note: For detailed information about the inverter, please see into the Varispeed L7 series section.











## G7/F7/L7/E7 inverter PLC

Specifications					Model	
Inputs	Ouptuts	RTC	Compobus/S master	RS422 port	DeviceNet slave	
6	4	Yes	Yes	Yes	No	3G3RV-P10ST8-E
6	4	Yes	Yes	NO	Yes	3G3RV-P10ST8-DRT-E

## 1 Varispeed

Specifications	Model
The 3-Level control method inverter	Varispeed G7
Flux vector control inverter	Varispeed F7
The lift inverter	Varispeed L7
The pumps and fans inverter	Varispeed E7

Note: For detailed information please refer to Varispeed G7/F7/L7/E7 series section.

#### 2 Cables

Specifications	Model
Computer connecting cable	CS1W-CN226
Programmable console cable	CS1W-CN224

#### 2 Computer software

Specifications	Model
PLC programming software: CX-programmer	CX-One
Inverter configurator software: CX-drive	

## ③ Compobus/S slaves

Appearance	Specifications	Model
A :	4 NPN inputs (+ common) 4 PNP inputs (- common) 4 NPN outputs (- common) 4 PNP outputs (+ common)	SRT2-ID04 SRT2-ID04-1 SRT2-OD04 SRT2-OD04-1
	8 NPN inputs (+ common) 8 PNP inputs (- common) 8 NPN outputs (- common) 8 NPN outputs (- common) 8 PNP outputs (+ common)	SRT2-ID08 SRT2-ID08-1 SRT2-OD08 SRT2-OD08-1
	16 NPN inputs (+ common) 16 PNP inputs (- common) 16 NPN outputs (- common) 16 PNP outputs (+ common)	SRT2-ID16 SRT2-ID16-1 SRT2-OD16 SRT2-OD16-1
	8 Relay outputs 8 Power MOS FET relay outputs	SRT2-ROC08 SRT2-ROF08
Tural	16 Relay outputs 16 Power MOS FET relay outputs	SRT2-ROC16 SRT2-ROF16
#2 <sup>2</sup> 5	4 NPN inputs (+ common) 4 PNP inputs (- common) 4 NPN outputs (- common) 4 PNP outputs (+ common)	SRT2-ID04CL SRT2-ID04CL-1 SRT2-OD04CL SRT2-OD04CL-1
	8 NPN inputs (+ common) 8 PNP inputs (- common) 8 NPN outputs (- common) 8 PNP outputs (+ common)	SRT2-ID08CL SRT2-ID08CL-1 SRT2-OD08CL SRT2-OD08CL-1
( January	1 to 4 inputs (set with DIP switch)	SRT2-AD04
	1 or 2 outputs (set with DIP switch)	SRT2-DA02
	Appearance	4 NPN inputs (+ common) 4 PNP inputs (- common) 4 NPN outputs (- common) 4 NPN outputs (+ common) 8 NPN inputs (+ common) 8 NPN inputs (- common) 8 PNP inputs (- common) 8 PNP outputs (- common) 16 NPN inputs (- common) 16 NPN inputs (- common) 16 NPN outputs (- common) 16 NPN outputs (- common) 16 PNP outputs (- common) 16 PNP outputs (- common) 16 PNP outputs (- common) 4 PNP outputs 16 Relay outputs 16 Relay outputs 16 Relay outputs 16 Power MOS FET relay outputs  4 NPN inputs (- common) 4 NPN outputs (- common) 5 NPN outputs (- common) 8 NPN outputs (- common) 8 NPN outputs (- common) 8 NPN inputs (- common) 8 NPN inputs (- common) 8 NPN outputs (- common) 8 NPN outputs (- common) 1 to 4 inputs (set with DIP switch)

Note: For detailed information about Compobus/S slaves, please refer to catalogue No. Y201-EN2-02 AS.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. I25E-EN-02

In the interest of product improvement, specifications are subject to change without notice.