

CIMR-G7C

Varispeed G7

World first three level inverter architecture

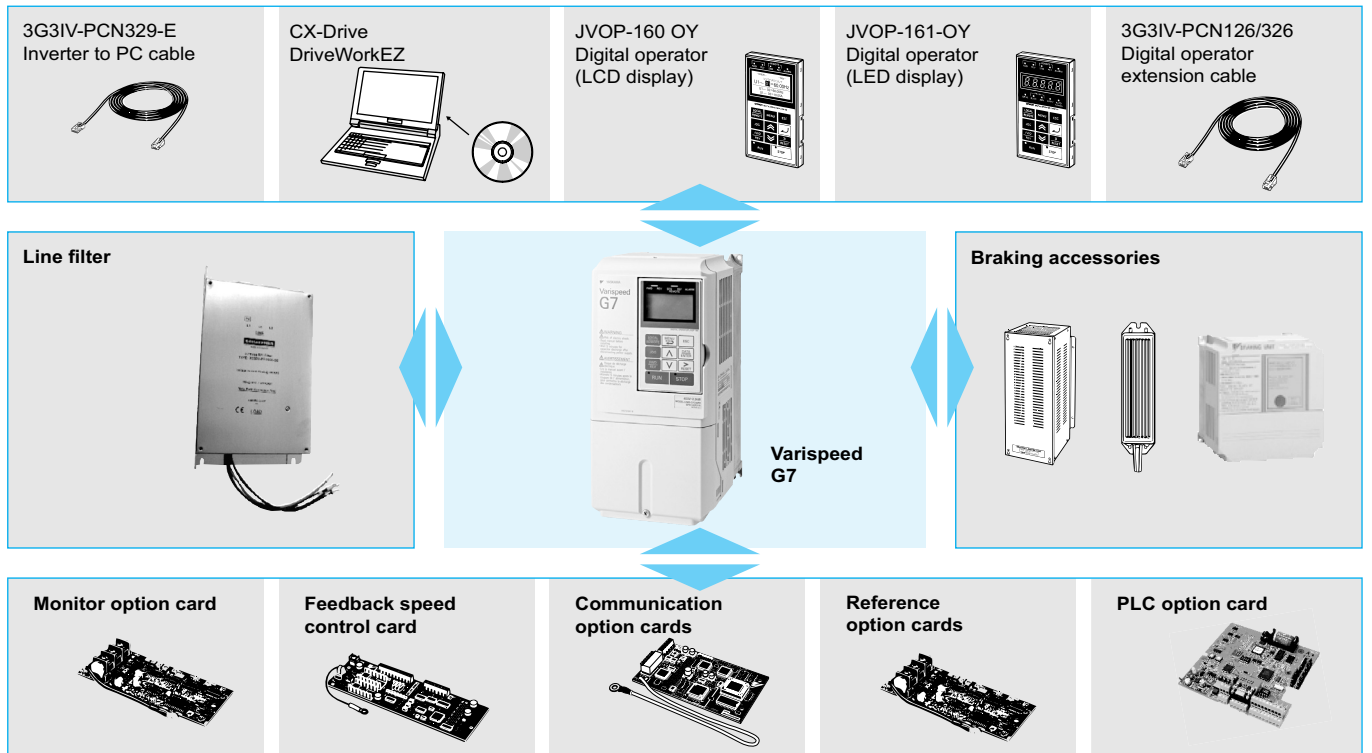
- 3 level control (400 V class)
- Current vector control and V/F with or without PG
- Torque control (closed loop and open loop)
- Silent operation
- Rotary and stationary autotuning
- High slip braking function
- Energy saving function standard
- LCD operator
- Embedded OMRON PLC functionality with PLC option card
- Standard RS-485 communications - Modbus
- Fieldbus options: DeviceNet, PROFIBUS, CANOpen, LONworks, ethernet
- PC configuration tool CX-drive and DriveWorksEZ.
- CE, UL, and cUL marking
- Customised application software

Ratings

- 200 V Class three-phase 0.4 to 110 kW
- 400 V Class three-phase 0.4 to 300 kW

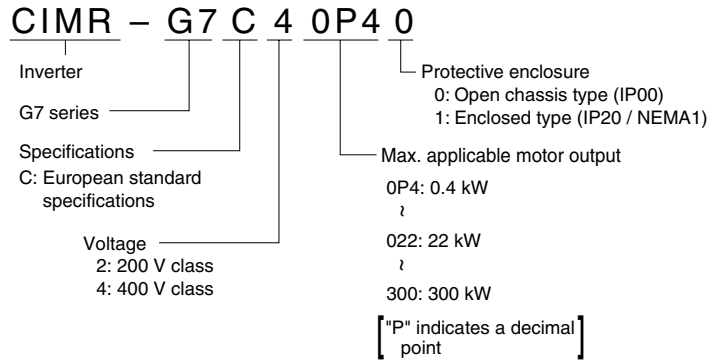


System configuration



Specifications

Type designation



200 V class¹

Model CIMR-G7C□	20P4	20P7	21P5	22P2	23P7	25P5	27P5	2011	2015	2018	2022	2030	2037	2045	2055	2075	2090	2110		
Max. applicable motor output ²	kW																			
	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110		
Output characteristics	Inverter capacity	kVA																		
	Rated current	A																		
	Max. voltage	3-phase, 200/208/220/230/240 V (proportional to input voltage)																		
	Max. output frequency	400 Hz (programmable)																		
Power supply	Rated input voltage and frequency	3-phase 200/208/220/230/240 V, 50/60 Hz ³																		
	Allowable voltage fluctuation	+10%, -15%																		
	Allowable frequency fluctuation	±5%																		
Harmonic wave prevention	DC reactor	Option									Provided									
	12-pulse input	Not available									Available ⁴									

1. The main circuit of 200 V class inverters uses 2-level control method.
2. Standard 4-pole motors are used for max. applicable motor output. Choose the inverter model whose rated current is allowable within the motor rated current range.
3. When using the inverter of 200 V class 30 kW or more with a cooling fan of three-phase 230 V 50 Hz or 240 V 50/60 Hz power supply, a transformer for the cooling fan is required.
4. A 3-wired transformer is required at 12-pulse input.

400 V class¹

Model CIMR-G7C□	40P4	40P7	41P5	42P2	43P7	45P5	47P5	4011	4015	4018	4022	4030	4037	4045	4055	4075	4090	4110	4132	4160	4185	4220	4300		
Max. applicable motor output ²	kW																								
	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	185	220	300		
Output characteristics	Inverter capacity	kVA																							
	Rated current	A																							
	Max. voltage	3-phase, 380/400/415/440/460/480 V (proportional to input voltage)																							
	Max. output frequency	400 Hz (programmable)																							
Power supply	Rated input voltage and frequency	3-phase 380/400/415/440/460/480 V, 50/60 Hz																							
	Allowable voltage fluctuation	+10%, -15%																							
	Allowable frequency fluctuation	±5%																							
Harmonic wave prevention	DC reactor	Option												Provided											
	12-pulse input	Not available												Available ³											

1. The main circuit of 400 V class inverters uses 3-level control method.
2. Standard 4-pole motors are used for max. applicable motor output. Choose the inverter model whose rated current is allowable within the motor rated current range.
3. A 3-wired transformer is required at 12-pulse input.

