

■ Power regenerative PWM converter, RHC series

■ Features

● Possible to reduce power supply facility capacity

Its power-factor control realizes the same phase current as the power-supply phase-voltage. The equipment, thus, can be operated with the power-factor of almost "1."

This makes it possible to reduce the power transformer capacity and downsize the other devices, compared with those required without the converter.

● Upgraded braking performance

Regenerated energy occurring at highly frequent accelerating and decelerating operation and elevating machine operation is entirely returned to power supply side.

Thus, energy saving during regenerative operation is possible.

As the current waveform is sinusoidal during regenerative operation, no troubles are caused to the power supply system.

Rated continuous regeneration :	100%
Rated regeneration for 1 min	150% (CT use)
	120% (VT use)

● Enhanced maintenance/protective functions

- Failure can be easily analyzed with the trace back function (option).

① The past 10 alarms can be displayed with the 7-segment LEDs.

This helps you analyze the alarm causes and take countermeasures.

② Even if the wiring on phase sequence at power supply side is wrong, correction is automatically made, so that normal operation is assured.

③ When momentary power failure occurs, the converter shuts out the gate to enable continuous operation after recovery.

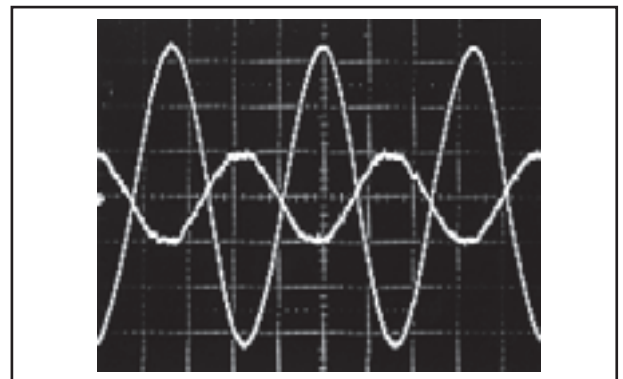
④ The converter can issue warning signals like overload, heat sink overheating, or the end of service life prior to converter tripping.

● Enhanced network support

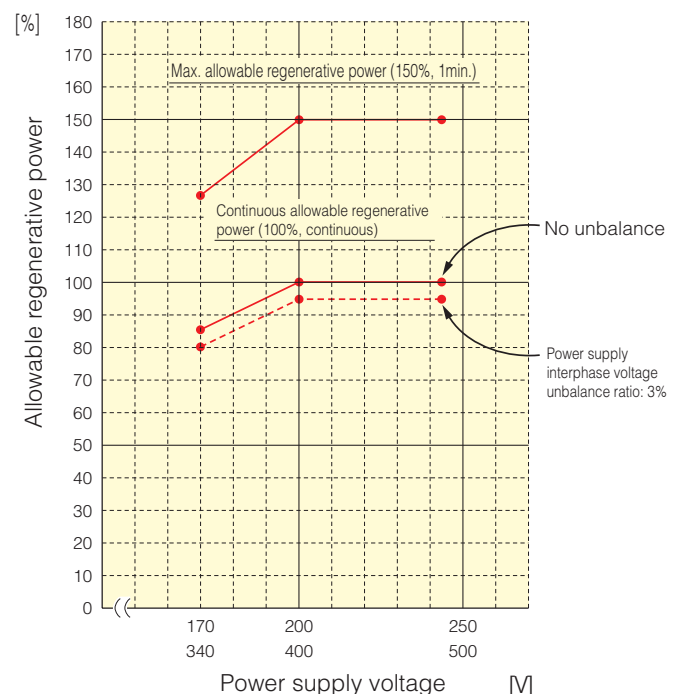
- The converter can be connected to MICREX-SX, F series and CC-Link master devices (using option). The RS-485 interface is provided as standard.



■ Example of waveform at power supply side during regenerative operation



■ Allowable characteristics of the RHC unit



Standard specifications • Common specifications

Standard specifications

200V series

Item		Standard specification											
Type RHC□□□-2C		200V series											
		7.5	11	15	18.5	22	30	37	45	55	75	90	
CT use	Applicable inverter capacity[kW]	7.5	11	15	18.5	22	30	37	45	55	75	90	
	Output	Continuous capacity[kW]	8.8	13	18	22	26	36	44	53	65	88	103
		Overload rating	150% of rated current for 1min.										
		Voltage 200V	DC320 to 355V (Variable with input power supply voltage) (*3)										
		Rated input current	27	40	55	67	80	109	135	164	200	267	321
	Required power supply capacity[kVA]	9.5	14	19	24	29	38	47	56	69	93	111	
Carrier frequency	Standard 15kHz										Standard 10kHz		
VT use	Applicable inverter capacity[kW]	11	15	18.5	22	30	37	45	55	75	90	110	
	Output	Continuous capacity[kW]	13	18	22	26	36	44	53	65	88	103	126
		Overload capability	120% of rated current for 1min.										
		Voltage 200V	DC320 to 355V (Variable with input power supply voltage) (*3)										
		Rated input current	40	55	67	80	109	135	164	200	267	321	392
	Required power supply capacity[kVA]	14	19	24	29	38	47	56	69	93	111	137	
Carrier frequency	Standard 10kHz										Standard 6kHz		
Power supply voltage	Number of phase/Voltage/Frequency	3-phase 3-wire, 200 to 220V 50Hz, 220 to 230V 50Hz(*1), 200 to 230V 60Hz											
	Voltage/Frequency variation	Voltage+10 to -15%, Frequency ±5%, Voltage unbalance: 3% or less											

400V series

Item		Standard specification																								
Type RHC□□□-4C		400V series																								
		7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	200	220	280	315	355	400	500	630	710B	800B	
CT use	Applicable inverter capacity[kW]	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	200	220	280	315	355	400	500	630	710	800	
	Output	Continuous capacity[kW]	8.8	13	18	22	26	36	44	53	65	88	103	126	150	182	227	247	314	353	400	448	560	705	795	896
		Overload rating	150% of rated current for 1min.																							
		Voltage 400V	DC640 to 710V (Variable with input power supply voltage) (*3)																							
		Required power supply capacity(kVA)	9.5	14	19	24	29	38	47	57	70	93	111	136	161	196	244	267	341	383	433	488	610	762	858	967
	Carrier frequency	Standard 15kHz										Standard 10kHz										Standard 6kHz				
VT use	Applicable inverter capacity[kW]	11	15	18.5	22	30	37	45	55	75	90	110	132	160	200	220	280	315	355	400	500					
	Output	Continuous capacity[kW]	13	18	22	26	36	44	53	65	88	103	126	150	182	227	247	314	353	400	448	560				
		Overload capability	120% of rated current for 1min.																							
		Voltage 400V	DC640 to 710V (Variable with input power supply voltage) (*3)																							
		Required power supply capacity(kVA)	14	19	24	29	38	47	57	70	93	111	136	161	196	244	267	341	383	433	488	610				
	Carrier frequency	Standard 10kHz										Standard 6kHz														
Power supply voltage	Number of phase/Voltage/Frequency	3-phase 3-wire, 380 to 440V 50Hz, 380 to 460V 60Hz(*2)																								
	Voltage/Frequency variation	Voltage+15 to -10%, Frequency ±5%, Voltage unbalance: 2% or less(*4)																								

(*1) 220 to 230V/50Hz model available on request.

(*2) The tap in the converter must be switched when the power supply voltage is 380 to 398V/50Hz or 380 to 430V/60Hz. The capacity must be reduced when the power supply voltage is less than 400V.

(*3) The output voltage is 320/640 VDC, 343/686 VDC, 355/710 VDC when the power supply voltage is 200/400V, 220/440V and 230/460V, respectively.

(*4) Voltage unbalance [%] = (Max. voltage [V] - Min. voltage [V])/Three-phase average voltage [V] × 67

Common specifications

Item		specification
Control	Control method	AVR constant control with DC ACR minor
	Running	Rectification starts with power ON after connected. Pressurization starts with the running signal (RUN-CM short-circuit or running command from communications). Then, preparation for operation is completed.
	Running status signal	Running, driving, regenerating, operation ready, alarm relay output (for any fault), etc.
	CT/VT switching	Selecting from CT: Overload rating 150% (1min.) and VT: Overload rating 120% (1min.)
	Carrier frequency	Fixed to high carrier frequency
	Input power factor	Above 0.99
	Input high-frequency current	According to the guideline for suppressing harmonics issued by the Ministry of Economy, Trade and Industry, the converter factor (Ki) can be set to 0.
	Restart mode after momentary power failure	Shields the gate when the voltage level reaches undervoltage level if momentary power failure occurs, and the converter can automatically restart after the power recovers.
Power limit control	Controls the power not to exceed the preset limit value.	
Display	Alarm display (protective functions)	AC fuse blown, AC overvoltage, AC undervoltage, AC overcurrent, AC input current error, Input phase loss, Synchronous power supply frequency error, DC fuse blown, DC overvoltage, DC undervoltage, Charge circuit error, Heat sink overheat, External alarm, Converter overheat, Overload, Memory error, Keypad communication error, CPU error, Network device error, Operation procedure error, A/D converter error, Optical network error, IPM error
	Alarm history	Records and displays the last 10 alarms. The detailed information of the trip cause for the previous alarm is stored and displayed.
	Monitor	Displays input power, input effective current, input effective voltage, DC intermediate current and power supply frequency.
	Load factor	The load rate can be measured by using the keypad.
	Display language	Function codes can be set or referred to in Japanese, English and Chinese (3 languages).
	Charge lamp	Lights when the main circuit condenser is charged.

Terminal Functions

Terminal Functions

Division	Symbol	Terminal name	Functions
Main circuit	L1/R, L2/S, L3/T	Power input	Connects with a three-phase power supply via the dedicated reactor.
	P (+), N (-)	Converter output	Connects with the inverter power supply input terminal P (+), N (-).
	E (G)	Grounding	Ground terminal for inverter chassis (housing).
	R0, T0	Auxiliary control power supply	Connects with the same power circuit as that for the control power backup terminal and the main power circuit.
Voltage detection	R1, S1, T1	Synchronous power supply input for voltage detection	Voltage detection terminals for controlling the inside of the converter. These are connected with the power supply side of the dedicated reactor and filter.
	R2, T2	Control monitor input	Terminals that connect with the circuit for detecting disconnection caused by blown AC fuse.
Input signal	RUN	RUN command	The converter starts running when this command is ON between RUN and CM, and stops when OFF.
	RST	Alarm reset command	In case of alarm stop, eliminate the cause and turn on this command between RST and CM. The protective function is disabled and the alarm state is released.
	X1	General-purpose transistor input	0: External fault [THR], 1: Current limit cancel [LMT-CCL], 2: 73 answerback [73ANS], 3: Current limit switching [1-LIM], 4: Optional DI [OPY-DI]
	CM	Digital input common	Common terminal for digital input signals.
Output signal	PLC	PLC signal power supply	Connects with the PLC output signal power supply. (Rated voltage: 24V (22 to 27V) DC)
	30A, 30B, 30C	Alarm relay output (for any fault)	Outputs a signal when a protective function is activated to stop the converter. (Contact at 1C, Circuit between 30A and 30C comes ON when an alarm occurs) (Contact capacity: 250V AC, max 50mA.)
	Y1, Y2, Y3, Y11 to Y18	General-purpose transistor output	0: Inverter running [RUN] 1: Operation ready output [RDY] 2: Power supply current limiting [IL] 3: Lifetime alarm [LIFE] 4: Cooling fin overload [PRE-OH] 5: Overload alarm [PRE-OL] 6: Driving [DRV] 7: Regenerating [REG] 8: Current limit alarm [CUR] 9: Under restart [U-RES] 10: Power supply frequency synchronizing [SY-HZ] 11: Alarm indication [AL1] 12: Alarm indication 2 [AL2] 13: Alarm indication 4 [AL4] 14: Optional DO [OPT-DO] * With OPC-VG-AO option, 8-point expanded functions become available (DI function is not available.)
	CME	Digital output common	
	Y5A, Y5C	Relay output	
	A01, A04, A05	General-purpose analog output	0: Input power [PWR] 1: Input current rms [I-AC] 2: Input voltage rms [V-AC] 3: DC link circuit voltage [V-DC] 4: Power supply frequency [FREQ] 5: +10V output test [P10] -10V output test [N10] * With OPC-VG-AO option, 2-point expanded functions become available (AI function is not usable.)
	M	Analog output common	Common terminal for analog input signals.
	73A, 73C	Charging resistance input relay output	Control output for the input relay of the external charging resistance (73)

Communications Specifications

Item	Specifications
General specifications for communication	Enables to show running information and running status, and to monitor the function code (polling), and to control (selecting) RUN, RST, and X1. * No function code can be written.
RS-485 (standard)	Communicates with the PC or PLC (Fuji protocol and RTU are supported.)
T-Link (optional)	OPC-VG7-TL option allows T-Link communication with the T-Link module in the MICREX-F or MICREX-SX.
SX bus (optional)	OPC-VG7-SX option allows connection between SX bus and MICREX-SX.
CC-Link (optional)	OPC-VG7-SX option allows connection with the CC link master device.
PROFIBUS-DP (optional)	These options will be supported soon.
DeviceNet (optional)	
Trace back (optional)	Hardware OPC-RHC-TR option allows trace-back of the converter operation status data. The software (WPS-LD-TR) is required.
	Software WPS-RHC-TR software allows collecting the trace back data on the PC.
Optical communications (optional)	OPC-VGS-SI option allows sharing the load of the concurrent multitasking system. Therefore, the capacity of up to 2400kW can be supported.

Function Settings

Function code	Name
F00	Data protection
F01	High-frequency filter selection
F02	Restart mode after momentary power failure (operation selection)
F03	Current rating switching
F04	LED monitor (Display selection)
F05	LCD monitor (Display selection)
F06	LCD monitor (Language selection)
F07	LCD monitor (Contrast adjusting)
F08	Carrier frequency
E01	X1 function selection
E02 to 13	Y1, Y2, Y3, Y5, Y11 to 18 function selection
E14	I/O function normally open/normally closed
E15	RHC overload early warning level
E16	Cooling fan ON-OFF control
E17	Output while limiting the current (hysteresis width)
E18 to 20	A01, A04, A05 function selection
E21 to 23	A01, A04, A05 gain setting
E24 to 26	A01, A04, A05 bias setting
E27	A01 to 5 filter setting
S01	Operation method
S02, 03	Power supply current limit (drive/ control)
H01	Station address
H02	Communication error processing
H03	Timer operation time
H04	Baud rate
H05	Data length selection
H06	Parity check
H07	Stop bit check
H08	No-response error detection time
H09	Response interval
H10	Protocol selection
H11	TL transmission format
H12	Parallel system
H13	Number of slave stations in parallel system
H14	Alarm data deletion
H15, 16	Power supply current limit (drive 1/2)
H17, 18	Power supply current limit (control 1/2)
H19, 20	Current limit early warning (level/ timer)
M09	Power supply frequency
M10	Input power
M11	Effective input current
M12	Effective input voltage
M13	Run command
M14	Running status
M15	Output terminals Y1 to Y18

Protective Functions

Item	LEP monitor	Function	Remarks
AC fuse blown	ACF	When the AC fuse is blown (only R and T phases), the converter stops running.	
AC overvoltage	AOV	The converter stops running on detection of AC overvoltage.	
AC undervoltage	ALV	The converter stops running on detection of AC undervoltage.	
AC overcurrent	AOC	The converter stops running if the input current peak value exceeds the overcurrent level.	
AC input current error	ACE	The converter stops running on detection of excessive deviation between AC input and ACR.	
Input phase loss	LPV	The converter stops running if the input phase loss occurs in the power supply.	
Synchronous power supply frequency error	FRF	The power supply frequency is checked after 73 is input. If a frequency error is detected, the converter stops running. Error during converter running (such as momentary power failure) triggers no alarm.	
DC fuse blown	dCF	The converter stops running if the AC fuse is blown (P side).	Above 18.5kW
DC overvoltage	dOV	The converter stops running on detection of DC overvoltage. If the power failure takes long and the control power goes out, the converter is automatically reset.	200V series: Above 400V±3V 400V series: Above 800V±5V
DC undervoltage	dLV	The converter stops running on detection of DC undervoltage. If the power failure takes long and the control power goes out, the converter is automatically reset.	200V series: Runs at 165V and restarts at 208V 400V series: Runs at 371V and restarts at 417V
Charge circuit error	PbF	When the charge circuit error is detected while the answerback signal usage at input of 73 is specified, the converter stops running.	Condition: X1 "73 Answerback" is selected.
Cooling fin overheat	OH1	The converter stops running if the cooling fin overheat is detected.	
External alarm	OH2	The converter stops running if an external signal [THR] is input.	Condition: X1 "External alarm" is selected.
Converter internal overheat	OH3	When overheat is detected in the inverter, the converter stops running.	
Converter overload	OLU	When the output current exceeds the overload characteristic of the inverter time characteristic, the converter stops running.	Start point: 105%, 150% 1 minute
Memory error	Er1	When a fault such as "write error" occurs in the memory (checksum values in EEPROM and RAM do not match), the converter stops running.	
Keypad communication error	Er2	Activated if an error is detected during initial communication.	
CPU error	Er3	Activated if an error is detected in the CPU.	
Network device error	Er4	The converter stops running if a fatal error is detected in the master network device (including unconnected power supply).	Applicable to T-Link, SX and CC-Link
Operation procedure error	Er6	When an error is detected in operation procedure, the converter stops running.	
A/D converter error	Er8	When an error is detected in the A/D converter circuit, the converter stops running.	
Optical network error	ErB	The converter stops running if the optical cable is disconnected or a fatal error is detected in an optical device (optional).	
IPM error	IPE	Activated if IPM self-shutoff function is triggered by excessive current or overheat.	Less than 15kW

Structure and environment

Item	Structure, environment and standard	
Structure specifications	Structure	Installed in the panel and cooled by external device
	Protective structure	IP00
	Cooling system	Forced air cooling
	Installation method	Vertical installation
Environment	Color	Same color as inverter FRENIC 5000VG7S series (Munsell 5Y3/0.5 half-burnished)
	Maintainability	Structure designed for easy parts change
	Location	Indoor, location free from corrosive gas, flammable gas, dust and direct light
	Ambient temperature	-10 to 50°C
	Humidity	5 to 95%RH Without condensing
	Altitude	Less than 3000m (output reduction may occur if the altitude is in the range between 1001 and 3000m)
	Vibration	2 to 9Hz: Amplitude=3mm, 9 to 20Hz: 9.8m/s², 20 to 55Hz: 2m/s² (9 to 55Hz: 2m/s² is used if the power is higher than 90kW.)
	Storage temperature	-20 to 55°C
	Storage humidity	5 to 95%RH

Equipment Configuration List

CT use

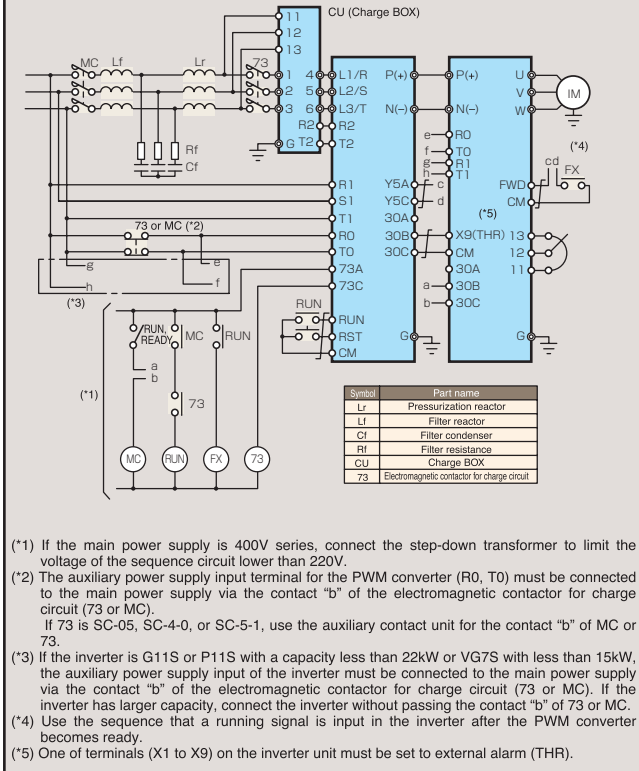
Voltage	Nominal applied motor(kw)	PWM converter type	Charging circuit contactor		Contactor for powersource	Charging circuit box ⁽¹⁾						Reactor for pressurizing		Resistance for filter		Reactor for filter		Capacitor for filter		Filtering circuit contactor			
			(73)	Qty		(52)	Qty	Charging resistance		Fuse		(Lr)	Qty	(Rf)	Qty	(Lf)	Qty	(Cf)	Qty	(6F)	Qty		
								(CU)	Qty	(R0)	Qty											(F)	Qty
200V series	7.5	RHC7.5-2C	SC-5-1	1		CU7.5-2C	1	(80W 7.5Ω)	(3)	(CR2LS-50/UL)	(2)	LR2-7.5C	1	GRZG80 0.42Ω	3	LFC2-7.5C	1	CF2-7.5C	1				
	11	RHC11-2C	SC-N1	1		CU11-2C	1	(HF5C5504)		(CR2LS-75/UL)	(2)	LR2-15C	1	GRZG150 0.2Ω	3	LFC2-15C	1	CF2-15C	1				
	15	RHC15-2C	SC-N2	1		CU15-2C	1			(CR2LS-100/UL)	(2)												
	18.5	RHC18.5-2C	SC-N3	1		CU18.5-2C	1	(GRZG120 2Ω)	(3)			LR2-22C	1	GRZG200 0.13Ω	3	LFC2-22C	1	CF2-22C	1				
	22	RHC22-2C				CU22-2C	1			(CR2L-150/UL)	(2)												
	30	RHC30-2C	SC-N4	1		CU30-2C	1			(CR2L-200/UL)	(2)	LR2-37C	1	GRZG400 0.1Ω	3	LFC2-37C	1	CF2-37C	1				
	37	RHC37-2C	SC-N5	1		CU45-2C	1			(CR2L-260/UL)	(2)												
	45	RHC45-2C	SC-N7	1								LR2-55C	1				LFC2-55C	1	CF2-55C	1			
	55	RHC55-2C	SC-N8	1		CU55-2C	1			(CR2L-400/UL)	(2)						LFC2-75C	1	CF2-75C	1			
	75	RHC75-2C	SC-N11	1		CU75-2C	1					LR2-75C	1				LFC2-110C	1	CF2-110C	1			
90	RHC90-2C				CU90-2C	1	(GRZG400 1Ω)	(3)	(A50P600-4)	(2)	LR2-110C	1	GRZG400 0.12Ω (2 parallels)	6	LFC2-110C	1	CF2-110C	1					
400V series	7.5	RHC7.5-4C	SC-05	1		CU7.5-4C	1	(TK50B 30Ω.J)	(3)	(CR6L-30/UL)	(2)	LR4-7.5C	1	GRZG80 1.74Ω	3	LFC4-7.5C	1	CF4-7.5C	1				
	11	RHC11-4C	SC-4-0	1		CU15-4C	1	(HF5B0416)		(CR6L-50/UL)	(2)	LR4-15C	1	GRZG150 0.79Ω	3	LFC4-15C	1	CF4-15C	1				
	15	RHC15-4C	SC-5-1	1																			
	18.5	RHC18.5-4C	SC-N1	1		CU18.5-4C	1	(80W 7.5Ω)	(3)			LR4-22C	1	GRZG200 0.53Ω	3	LFC4-22C	1	CF4-22C	1				
	22	RHC22-4C				CU22-4C	1	(HF5C0416)		(CR6L-75/UL)	(2)												
	30	RHC30-4C	SC-N2	1		CU30-4C	1			(CR6L-100/UL)	(2)	LR4-37C	1	GRZG400 0.38Ω	3	LFC4-37C	1	CF4-37C	1				
	37	RHC37-4C	SC-N2S	1		CU45-4C	1			(CR6L-150/UL)	(2)												
	45	RHC45-4C	SC-N3	1								LR4-55C	1	GRZG400 0.26Ω	3	LFC4-55C	1	CF4-55C	1				
	55	RHC55-4C	SC-N4	1		CU55-4C	1			(CR6L-200/UL)	(2)												
	75	RHC75-4C	SC-N5	1		CU75-4C	1					LR4-75C	1	GRZG400 0.38Ω	3	LFC4-75C	1	CF4-75C	1				
	90	RHC90-4C	SC-N7	1		CU90-4C	1			(CR6L-300/UL)	(2)	LR4-110C	1	GRZG400 0.53Ω (2 parallels)	6	LFC4-110C	1	CF4-110C	1				
	110	RHC110-4C	SC-N8	1		CU110-4C	1	(GRZG120 2Ω)	(3)														
	132	RHC132-4C				CU132-4C	1			(A50P400-4)	(2)	LR4-160C	1	RF4-160C	1	LFC4-160C	1	CF4-160C	1				
	160	RHC160-4C	SC-N11	1		CU160-4C	1			(A50P600-4)	(2)												
	200	RHC200-4C	SC-N12	1		CU200-4C	1	(GRZG400 1Ω)	(3)			LR4-220C	1	RF4-220C	1	LFC4-220C	1	CF4-220C	1				
	220	RHC220-4C				CU220-4C	1			(A70QS800-4)	(2)												
	280	RHC280-4C	SC-N3	1	SC-N14	1			GRZG400 1Ω (2 parallels)	6	A70QS800-4	2	LR4-280C	1	RF4-280C	1	LFC4-280C	1	CF4-280C	1		SC-N4	1
	315	RHC315-4C									A70P1600-4TA	2	LR4-315C	1	RF4-315C	1	LFC4-315C	1	CF4-315C	1			
	355	RHC355-4C											LR4-355C	1	RF4-355C	1	LFC4-355C	1	CF4-355C	1			
	400	RHC400-4C			SC-N16	1							LR4-400C	1	RF4-400C	1	LFC4-400C	1	CF4-400C	1			
500	RHC500-4C			SC-N11	3							LR4-500C	1	RF4-500C	1	LFC4-500C	1	CF4-500C	1				
630	RHC630-4C			SC-N12	3					A70P2000-4	2	LR4-630C	1	RF4-630C	1	LFC4-630C	1	CF4-630C	1				
710	RHC710B-4C	SC-N4	1							HF5G2655	2	LR4-710C	1	RF4-710C	1	LFC4-710C	1	CF4-710C	1		SC-N8	1	
800	RHC800B-4C			SC-N14	3							LR4-800C	1	RF4-800C	1	LFC4-800C	1	CF4-800C	1				

VT use

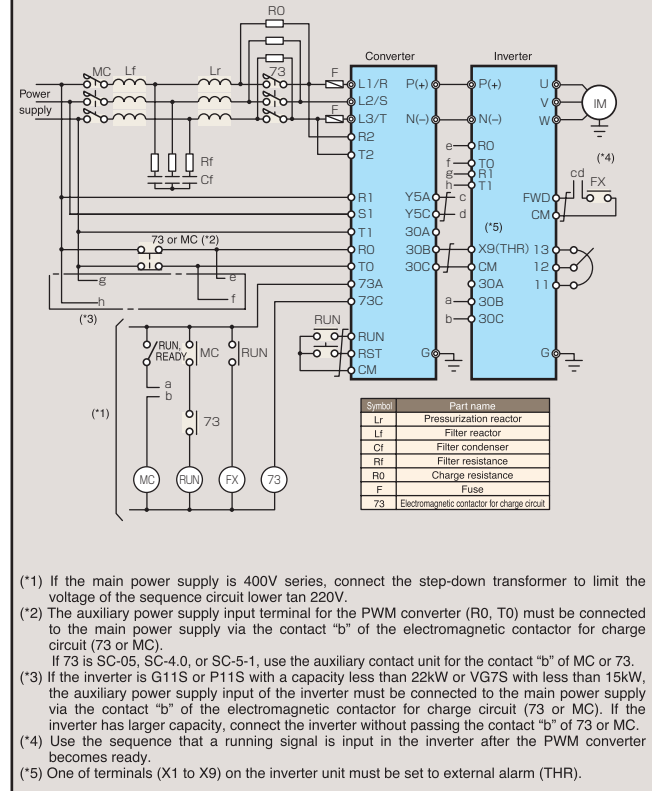
Voltage	Nominal applied motor(kw)	PWM converter type	Reactor for pressurizing		Reactor for filter		Capacitor for filter		Resistance for filter		Charging resistance		Fuse		Charging circuit contactor		Contactor for powersource		Filtering circuit contactor	
			(Lr)	Qty	(Lf)	Qty	(Cf)	Qty	(Rf)	Qty	(R0)	Qty	(F)	Qty	(73)	Qty	(52)	Qty	(6F)	Qty
200V series	11	RHC7.5-2C	LR2-15C	1	LFC2-15C	1	CF2-15C	1	GRZG150 0.2Ω	3	80W7.5Ω (HF5C5504)	3	CR2LS-50/UL	2	SC-N1	1				
	15	RHC11-2C											CR2LS-75/UL	2	SC-N2	1				
	18.5	RHC15-2C	LR2-22C	1	LFC2-22C	1	CF2-22C	1	GRZG200 0.13Ω	3			CR2LS-100/UL	2	SC-N3	1				
	22	RHC18.5-2C											GRZG120 2Ω	3						
	30	RHC22-2C	LR2-37C	1	LFC2-37C	1	CF2-37C	1	GRZG400 0.1Ω	3										
	37	RHC30-2C												CR2L-150/UL	2	SC-N4	1			
	45	RHC37-2C	LR2-55C	1	LFC2-55C	1	CF2-55C	1	GRZG400 0.1Ω	3				CR2L-200/UL	2	SC-N5	1			
	55	RHC45-2C												CR2L-260/UL	2	SC-N7	1			
	75	RHC55-2C	LR2-75C	1	LFC2-75C	1	CF2-75C	1	GRZG400 0.1Ω	3				CR2L-400/UL	2	SC-N8	1			
	90	RHC75-2C	LR2-110C	1	LFC2-110C	1	CF2-110C	1	GRZG400 0.12Ω (2 parallels)	6										
110	RHC90-2C												GRZG400 1Ω	3	A50P600-4	2	SC-N12	1		
400V series	11	RHC7.5-4C	LR4-15C	1	LFC4-15C	1	CF4-15C	1	GRZG150 0.79Ω	3	80W 7.5Ω (HF5C5504)	3	CR6L-30/UL	2	SC-4-0	1				
	15	RHC11-4C											CR6L-50/UL	2	SC-5-1	1				
	18.5	RHC15-4C	LR4-22C	1	LFC4-22C	1	CF4-22C	1	GRZG200 0.53Ω	3										
	22	RHC18.5-4C																		
	30	RHC22-4C	LR4-37C	1	LFC4-37C	1	CF4-37C	1	GRZG400 0.38Ω	3				CR6L-75/UL	2	SC-N2	1			
	37	RHC30-4C												CR6L-100/UL	2	SC-N2S	1			
	45	RHC37-4C	LR4-55C	1	LFC4-55C	1	CF4-55C	1	GRZG400 0.26Ω	3				CR6L-150/UL	2	SC-N3	1			
	55	RHC45-4C																		
	75	RHC55-4C	LR4-75C	1	LFC4-75C	1	CF4-75C	1	GRZG400 0.38Ω	3				CR6L-200/UL	2	SC-N4	1			
	90	RHC75-4C	LR4-110C	1	LFC4-110C	1	CF4-110C	1	GRZG400 0.53Ω (2 parallels)	6				CR6L-300/UL	2	SC-N5	1			
	110	RHC90-4C																		
	132	RHC110-4C	LR4-160C	1	LFC4-160C	1	CF4-160C	1	RF4-160C	1	GRZG120 2Ω	3								
	160	RHC132-4C												A50P400-4	2	SC-N11	1			
	200	RHC160-4C	LR4-220C	1	LFC4-220C	1	CF4-220C	1	RF4-220C	1				A50P600-4	2	SC-N12	1			
	220	RHC200-4C												GRZG400 1Ω	3					
	280	RHC280-4C	LR4-280C	1	LFC4-280C	1	CF4-280C	1	RF4-280C	1										
	315	RHC315-4C	LR4-315C	1	LFC4-315C	1	CF4-315C	1	RF4-315C	1	GRZG400 1Ω (2 parallels)	6								
355	RHC355-4C	LR4-355C	1	LFC4-355C	1	CF4-355C	1	RF4-355C	1											
400	RHC400-4C	LR4-400C	1	LFC4-400C	1	CF4-400C	1	RF4-400C	1											
500	RHC500-4C	LR4-500C	1	LFC4-500C	1	CF4-500C	1	RF4-500C	1											

Basic Wiring Diagram

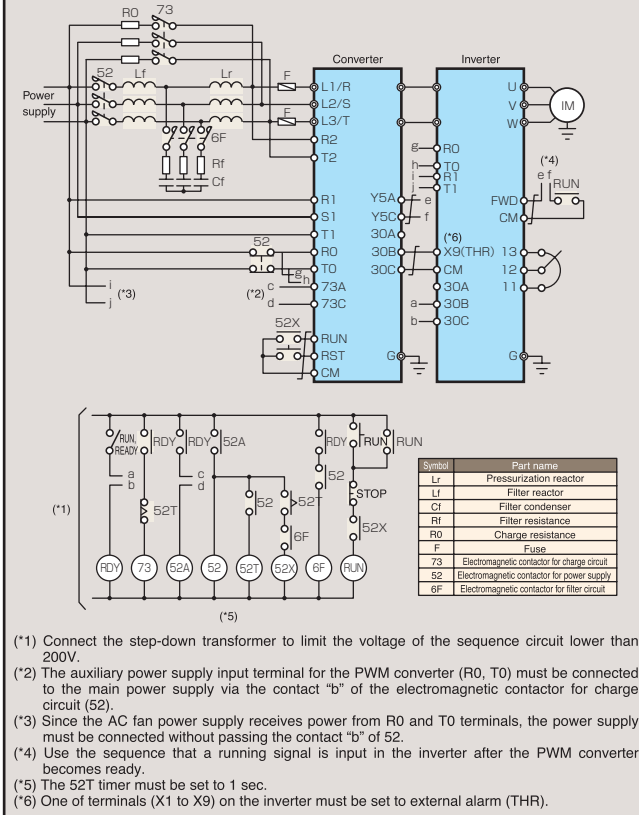
- RHC7.5-2C to RHC90-2C (Applicable inverter: 3-phase 200V, 7.5 to 90kW)
- RHC7.5-4C to RHC220-4C (Applicable inverter: 3-phase 400V, 7.5 to 220kW)
- *When adapting a charge BOX



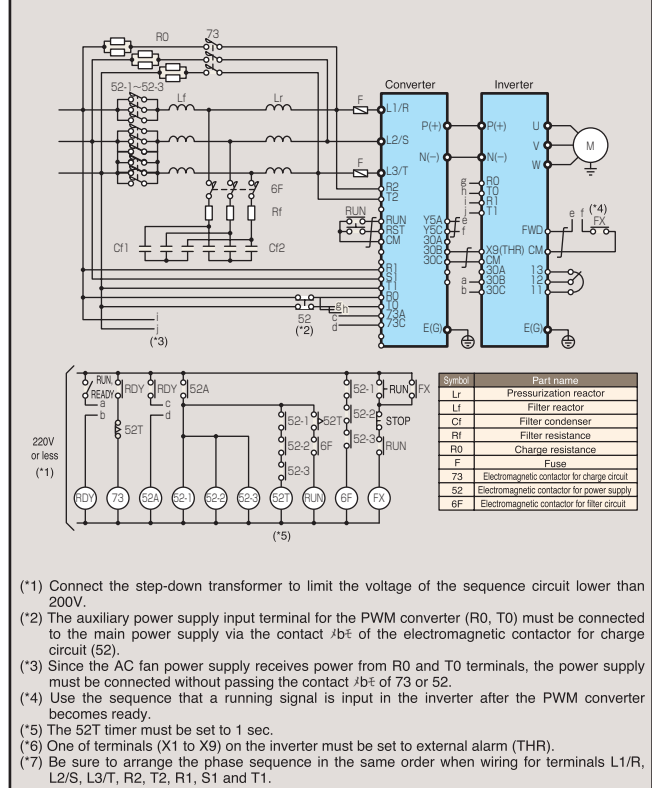
- RHC7.5-2C to RHC90-2C (Applicable inverter: 3-phase 200V, 7.5 to 90kW)
- RHC7.5-4C to RHC220-4C (Applicable inverter: 3-phase 400V, 7.5 to 220kW)



- RHC280-4C to RHC400-4C (Applicable inverter: 3-phase 400V, 280 to 400kW)

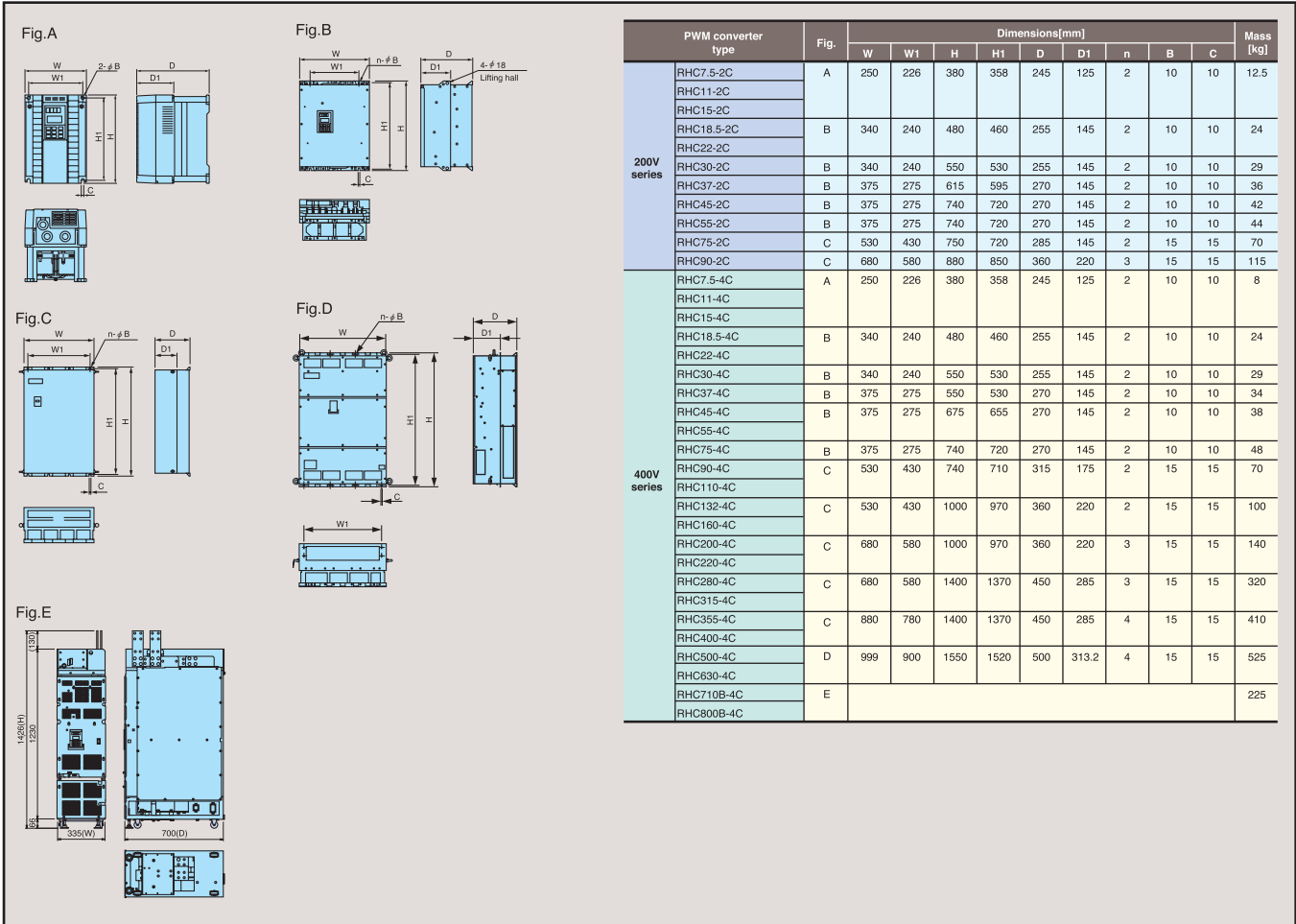


- RHC400-4C with VT specification (Applicable inverter: 3-phase 400V, 400kW)
- RHC500-4C, RHC630-4C (Applicable inverter: 3-phase 400V, 500, 630kW)

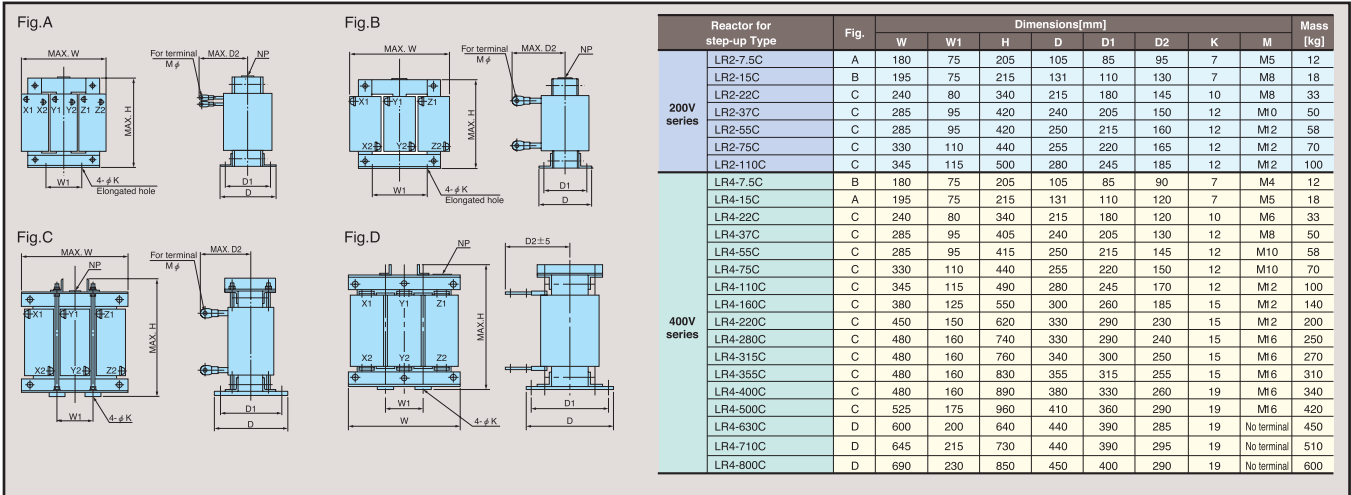


External Dimensions

PMW converter main body



<Reactor for step-up>



*Please contact the Fuji's sales division.