



TECHNICAL DATA

Features		Description			
		CHV 380V, 525V	CHE 380V	CHV 690/1100V	
POWER SUPPLY	Voltage	Single -phase	220V ± 15%		
		Three-phase	220V/380V/415V/480V/525V ± 15%	690/1100 ± 15%	
	Input Frequency	50/60 Hz ± 5% 47-63Hz)			
	Power factor CosØ	>0.92			
	Power range	1.5-630kW / 18.5-630kW	0.4-630kW	22-630kW	
CONTROL	Control method	16 bit DSP +32 bit ARM	16 bit DSP	16 bit DSP +32 bit ARM	
	Control type	SPWM current vector control			
	Control mode	Sensorless vector control (SVC)	Sensorless vector control (SVC)	Sensorless vector control (SVC)	
		Vector control with PG (VC)	V/F control	Vector control with PG (VC)	
		V/F control		V/F control	
	Carrier frequency	1.0k-16.0kHz	0.5k-15kHz	1.0k-16.0kHz	
	Frequency range	0-400Hz	0-600Hz	0-400Hz	
	Speed accuracy	± 0.5% of maximum speed (SVC); ± 0.02% of maximum speed (VC)			
	Starting torque	150% Mn at 0.5Hz (SVC) 180% Mn at 0Hz (VC)	150% Mn at 0.5Hz (SVC)	150% Mn at 0.5Hz (SVC) 180% Mn at 0Hz (VC)	
	Overload capacity	150% rated current for 60s 180% rated current for 10s	*CT: 150% rated current for 60s 180% rated current for 10s VT: 120% rated current for 6-s 150% rated current for 10s	150% rated current for 60s 180% rated current for 10s	
	Efficiency	>98% (nominal)			
ADVANCED CONTROL	V/F curve	Linear, User-defined, Torque stepdown (1.3, 1.7, 2.0 order)	Linear, Torque stepdown (2.0 order)	Linear, User-defined, Torque stepdown (1.3, 1.7, 2.0 order)	
	S curve	Standard	N/A	Standard	
	Simple PLC	Built-in	N/A	Built-in	
	Length control	Length controlled by preset	N/A	Length controlled by preset	
	Traverse control	0-100% frequency traverse			
	Multi-speed	16 speeds & time	8 speeds	16 speeds & time	
	Droop control	0-10Hz	N/A	0-10Hz	
	Torque control	Standard	Standard	Standard	
	LCD	Chinese/English selectable, download and upload parameter			
PERFORMANCE	Speed control	V/F			
		Sensorless vector control	Speed range 1:100 Resolution: 0.01Hz (Digital) Maximum frequency x0.1% (analogue)	Speed range 1:100 Resolution: 0.01Hz (Digital) Maximum frequency x0.1% (analogue)	Speed range 1:100 Resolution: 0.01Hz (Digital) Maximum frequency x0.1% (analogue)
		Vector control with PG	Speed range 1:100 Resolution: 0.01Hz (Digital) Maximum frequency x0.1% (analogue)		Speed range 1:100 Resolution: 0.01Hz (Digital) Maximum frequency x0.1% (analogue)
INPUTS	Analog	2 inputs (0-10V/0-20mA), 2 inputs extendable	2 inputs (0-10V/0-20mA)	2 inputs (0-10V/0-20mA), 2 inputs extendable	
	Digital	6 inputs (1 HDI), 4 inputs extendable	4 inputs	6 inputs (1 HDI), 4 inputs extendable	
OUTPUTS	Analog	1 output (0/4-20mA or 0/2-10V) 1 output extendable	1 output (0/4-20mA or 0/2-10V)	1 output (0/4-20mA or 0/2-10V) 1 output extendable	
	Digital	1 output, 1 output extendable	1 output	1 output, 1 output extendable	
	Relay	2 outputs, 1 output extendable	1 output	2 outputs, 1 output extendable	
COMMUNICATION	Serial Interface	RS232 or RS485	RS485	RS232 or RS485	
	"Field BUS" Networks	Modbus RTU			
SAFETY	Protection	IGBT phase fault, Overcurrent, Overvoltage, Undervoltage, Overload, Overheat, External fault, etc.			
ENVIRONMENT	Temperature	Operation: -10°C ~ +40°C, Transportation & Storage: -30°C ~ +60°C			
	Humidity	<95%, no condensation allowed			
	Altitude	0-1000m without derating, 1000-4000m with derating			
	Cooling Method	Dry clean air			
CERTIFICATE		ISO9000/9001/9004/19011 ; IQNet ; CE(Europe)			
BRAKE		Below 15kW Built-in			
		Above 18.5kW Fit external Braking Unit			
AC INPUT CHOKES		Optional			
RFI FILTER		Optional			
DC REACTOR		Built-in 18.5-90kW			
		Other extra			

*CT: Constant torque application, VT: Variable torque application



SELECTION GUIDE FOR MEDIUM VOLTAGE

Input Voltage	Power Rating (kW)		Part Number	Rated Current (A)		Braking Unit	Braking Resistor		Dimension	Dimension	
	CT*	VT*		CT*	VT*		Without Base		H(mm)xW(mm)xD(mm)	H(mm)xW(mm)xD(mm)	
							Ω	kW			
690V	Three Phase	22	~	CH-022G-6	28	~	DBU-55-6	75.75	2.2	467x290x215	~
		30	~	CH-030G-6	35	~	DBU-55-6	55.54	3	467x290x215	~
		37	~	CH-037G-6	45	~	DBU-55-6	45.03	3.7	577x375x270	~
		45	~	CH-045G-6	52	~	DBU-55-6	37.03	4.5	577x375x270	~
		55	~	CH-055G-6	63	~	DBU-55-6	30.30	5.5	577x375x270	~
		75	~	CH-075G-6	86	~	DBU-90-6	22.22	7.5	755x460x330	~
		90	~	CH-090G-6	98	~	DBU-90-6	18.51	9	755x460x330	~
		110	~	CH-110G-6	121	~	DBU-132-6	15.15	11	755x460x330	~
		132	~	CH-132G-6	150	~	DBU-132-6	12.62	13.2	1275x490x391	1490x490x391
		160	~	CH-160G-6	175	~	DBU-220-6	10.41	16	1275x490x391	1490x490x391
		185	~	CH-185G-6	198	~	DBU-220-6	9.01	18.5	1275x490x391	1490x490x391
		200	~	CH-200G-6	218	~	DBU-220-6	8.33	20	1358x750x402	1670x750x402
		220	~	CH-220G-6	240	~	DBU-220-6	7.57	22	1358x750x402	1670x750x402
		250	~	CH-250G-6	270	~	DBU-350-6	6.67	25	1358x750x402	1670x750x402
		300	~	CH-300G-6	320	~	DBU-350-6	5.95	28	1358x750x402	1670x750x402
		315	~	CH-315G-6	350	~	DBU-350-6	5.29	31.5	1358x750x402	1670x750x402
		350	~	CH-350G-6	380	~	DBU-350-6	4.76	35	~	1821.5x1505x400
		400	~	CH-400G-6	430	~	DBU-500-6	4.71	40	~	1821.5x1505x400
		500	~	CH-500G-6	540	~	DBU-500-6	3.33	50	~	1821.5x1505x400
		560	~	CH-560G-6	600	~	DBU-630-6	2.98	56	~	1821.5x1505x400
630	~	CH-630G-6	680	~	DBU-630-6	2.64	63	~	1821.5x1505x400		

Input Voltage	Power Rating (kW)		Part Number	Rated Current (A)		Braking Unit	Braking Resistor		Dimension	Dimension
	CT*	VT*		CT*	VT*		Without Base		H(mm)xW(mm)xD(mm)	H(mm)xW(mm)xD(mm)
							Ω	kW		
1140V	Three Phase	37	~	CH-037G-12	25	~	External	Available on request	467x290x215	~
		45	~	CH-045G-12	31	~	Customize	Available on request	467x290x215	~
		55	~	CH-055G-12	38	~	External	Available on request	577x375x270	~
		75	~	CH-075G-12	52	~	Customize	Available on request	577x375x270	~
		90	~	CH-090G-12	58	~	External	Available on request	577x375x270	~
		110	~	CH-110G-12	73	~	Customize	Available on request	755x460x330	~
		132	~	CH-132G-12	86	~	External	Available on request	755x460x330	~
		160	~	CH-160G-12	104	~	Customize	Available on request	755x460x330	~
		185	~	CH-185G-12	115	~	External	Available on request	1275x490x391	1490x490x391
		200	~	CH-200G-12	132	~	Customize	Available on request	1275x490x391	1490x490x391
		220	~	CH-220G-12	144	~	External	Available on request	1275x490x391	1490x490x391
		250	~	CH-250G-12	162	~	Customize	Available on request	1358x750x402	1670x750x402
		300	~	CH-300G-12	180	~	External	Available on request	1358x750x402	1670x750x402
		315	~	CH-315G-12	208	~	Customize	Available on request	1358x750x402	1670x750x402
		350	~	CH-350G-12	216	~	External	Available on request	1358x750x402	1670x750x402
		375	~	CH-375G-12	225	~	Customize	Available on request	1358x750x402	1670x750x402
		400	~	CH-400G-12	260	~	External	Available on request	~	1821.5x1505x400
		500	~	CH-500G-12	325	~	Customize	Available on request	~	1821.5x1505x400
		560	~	CH-560G-12	365	~	External	Available on request	~	1821.5x1505x400
		630	~	CH-630G-12	400	~	Customize	Available on request	~	1821.5x1505x400