INDUSQUIP MARKETING CC

WEM ELECTRIC MOTORS & DRIVES

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		
PERFOR-MANCE	Speed control	V/F			
		Sensorless vector control	Speed range 1:100 Resolution: 0.01Hz (Digital) Maximum frequency ×0.1% (analogue)	Speed range 1:100 Resolution: 0.01Hz (Digital) Maximum frequency ×0.1% (analogue)	Speed range 1:100 Resolution: 0.01Hz (Digital) Maximum frequency ×0.1% (analogue)
		Vector control with PG	Speed range 1:100 Resolution: 0.01Hz (Digital) Maximum frequency ×0.1% (analogue)		Speed range 1:100 Resolution: 0.01Hz (Digital) Maximum frequency ×0.1% (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 ouput (0/4~20mA or 0/2~10V) 1 output extendable	1 output (0/4~20mA or 0/2~10V)	1 ouput (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 ouputs, 1 output extendable	1 output	2 ouputs, 1 output extendable
COMMUNI-CATION	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.		
ENVIRON-MENT	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

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SELECTION GUIDE

Input Voltage		Power Rating (kW)		Part Number	Rated Current (A)		Braking Unit	Braking Resistor	Dimension H(mm)xW(mm)xD(mm)
		CT*	VT*		CT*	VT*			
	Single Phase	0.4	~	CH-0R4G-S2	2.3	~	Built-in	~	140x85x115
		0.75	~	CH-0R7G-S2	4.5	~		~	140x85x115
		1.5	~	CH-1R5G-S2	7	~	Built-in	~	180x120x140
		2.2	~	CH-2R2G-S2	10	~		~	180x120x140
		0.75	~	CH-0R7G-2	4.5	~		1x275Ω/75W	180x120x140
		1.5	~	CH-1R5G-2	7	~	Built-in	1x275Ω/75W	180x120x140
		2.2	~	CH-2R2G-2	10	~		1x138Ω/150W	180x120x140
220V/230V		4	~	CH-004G-2	16	~		1x91Ω/220W	320x220x180
		5.5	~	CH-5R5G-2	20	~	Built-in	1x52Ω/400W	320x220x180
		7.5	~	CH-7R5G-2	30	~		1x37.5Ω750W	320x220x180
	Three Phase	11	~	CH-011G-2	42	~	1xDBU-055-2	1x19Ω/1100W	467x290x215
		15	~	CH-015G-2	55	~		1x13.6Ω/1500W	467x290x215
		18.5	~	CH-018G-2	70	~		1x12Ω/1800W	577x375x270
		22	~	CH-022G-2	80	~	1xDBU-055-2	1x9Ω/220W	577x375x270
		30	~	CH-030G-2	110	~		1x6.8Ω/3000W	577x375x270
		37	~	CH-037G-2	130	~		2x11Ω/2000W	755x460x330
		45	~	CH-045G-2	160	~	1xDBU-055-2	2x9Ω/2400W	755x460x330
		55	~	CH-055G-2	200	~		2x9Ω/2400W	755x460x330
		0.75	~	CH-0R7G-4	2.5	~		1x900Ω/75W	180x120x140
		1.5	~	CH-1R5G-4	3.7	~	Built-in	1x460Ω/150W	180x120x140
		2.2	~	CH-2R2G-4	5	~		1x315Ω/220W	180x120x140
		4	5.5	CH-004G/5R5P-4	9	13	Built-in	1x175Ω/400W	250x160x175
		5.5	7.5	CH-5R5G/7R5P-4	13	17		1x120Ω/550W	250x160x175
		7.5	11	CH-7R5G/011P-4	17	25		1x100Ω/750W	320x220x180
		11	15	CH-011G/015P-4	25	32	Built-in	1x70Ω/1100W	320x220x180
		15	18.5	CH-015G/018P-4	32	37		1x47Ω/1500W	320x220x180
		18.5	22	CH-018G/022P-4	37	45		1x38Ω/2000W	467x290x215
		22	30	CH-022G/030P-4	45	60	1xDBU-055-4	1x32Ω/2200W	467x290x215
		30	37	CH-030G/037P-4	60	75		1x23Ω/3000W	467x290x215
		37	45	CH-037G/045P-4	75	90		1x19Ω/3700W	577x375x270
		45	55	CH-045G/055P-4	90	110	1xDBU-055-4	1x16Ω/4500W	577x375x270
		55	75	CH-055G/075P-4	110	150		1x13Ω/5500W	577x375x270
380V/415V 440V/480V	Three Phase	75	90	CH-075G/090P-4	150	176		2x19Ω/3700W	755x460x330
		90	110	CH-090G/110O-4	176	210	2xDBU-055-4	2x16Ω/4500W	755x460x330
		110	132	CH-110G/132P-4	210	250		2x13Ω/5500W	755x460x330
		132	160	CH-132G/160P-4	250	300		1x5Ω/15000W	1275x490x391
		160	185	CH-160G/185P-4	300	340	1xDBU-160-4	1x3.5Ω/20000W	1275x490x391
		185	200	CH-185G/200P-4	340	380		1x3.5Ω/20000W	1275x490x391
		200	220	CH-200G/220P-4	380	415	1xDBU-220-4	1x3Ω/25000W	1358x750x405
		220	250	CH-220G/250P-4	415	470		1x3Ω/25000W	1358x750x405
		250	280	CH-250G/280P-4	470	520		1x2.5Ω/30000W	1358x750x405
		280	315	CH-280G/315P-4	520	600	1xDBU-315-4	1x2.5Ω/30000W	1358x750x405
		315	350	CH-315G/350P-4	600	640		1x2Ω/35000W	1358x750x405
		350	~	CH-350G-4	640	~	~	~	1822x1505x400
		400	~	CH-400G-4	690	~	~	~	1822x1505x400
		500	~	CH-500G-4	860	~	~	~	1822x1505x400
		560	~	CH-560G-4	950	~	~	~	1822x1505x400
		630	~	CH-630G-4	1100	~	~	~	1822x1505x400
		18.5	~	CH-018G-5	27	~	1xDBU-055-5	1x72Ω/1.8KW	352.4x600x262.4
		22	~	CH-022G-5	33	~	1xDBU-055-5	1x58Ω/2.2KW	352.4x600x262.4
		30	~	CH-030G-5	43	~	1xDBU-055-5	1x43Ω/3KW	352.4x600x262.4
		37	~	CH-037G-5	54	~	1xDBU-055-5	1x35Ω/3.7KW	352.4x600x262.4
		45	~	CH-045G-5	65	~	1xDBU-055-5	1x28Ω/4.5KW	352.4x600x262.4
		55	~	CH-055G-5	80	~	1xDBU-05505	1x23Ω/5.5KW	393x650x285
		75	~	CH-075G-5	109	~	1xDBU-055-5	1x17Ω/7.5KW	393x650x285
		90	~	CH-090G-5	127	~	2xDBU-055-5	2x14Ω/9KW	473x850x310
	Three Phase	110	~	CH-110G-5	152	~	2xDBU-055-5	2x12Ω/11KW	473x850x310
525V/550V		132	~	CH-132G-5	181	~	2xDBU-055-5	2x10Ω/13.2KW	473x850x310
		160	~	CH-160G-5	217	~	2xDBU-055-5	2x8Ω/16KW	515x1542x465
		185	~	CH-185G-5	246	~	1xDBU-160-5	1x7Ω/18.5KW	515x1542x465
		200	~	CH-200G-5	275	~	1xDBU-220-5	1x6.5Ω/20KW	515x1542x465
		220	~	CH-220G-5	300	~	1xDBU-220-5	1x6Ω/22KW	515x1542x465
		250	~	CH-250G-5	340	~	1xDBU-315-5	1x5.3Ω/25KW	1358x750x405
		300	~	CH-300G-5	413	~	1xDBU-315-5	1x4Ω/31.5KW	1358x750x405
		315	~	CH-315G-5	434	~	1xDBU-315-5	1x4Ω/31.5KW	1358x750x405
		350	~	CH-350G-5	482	~	1xDBU-315-5	1x4Ω/31.5KW	1358x750x405
		400	~	CH-400G-5	551	~	1xDBU-315-5	~	1358x750x405
		500	~	CH-500G-5	~	~	~	~	~
		560	~	CH-560G-5	~	~	~	~	~
		630	~	CH-630G-5	~	~	~	~	~

"We Get Things Moving"