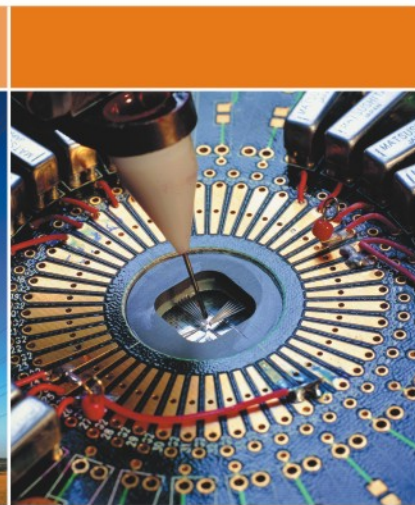


TECORP AC MOTOR SPEED CONTROLLER

HC1-A/C⁺/H/P SERIES
0.4~450KW



HC1-A Series SPWM AC MOTOR SPEED CONTROLLER

220V 0.4 ~ 3.7 KW (1 ϕ /3 ϕ)
 220V 5.5 ~ 22 KW (3 ϕ)
 400V 0.75 ~ 450 KW (3 ϕ)

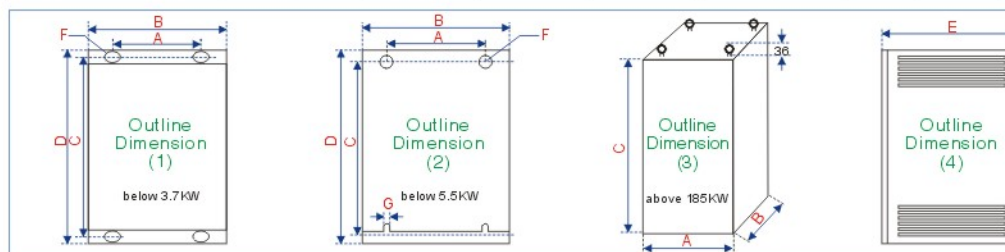
HC1-A Series

- Comprehensive range from 0.1 ~ 400Hz
- High technology of PIM module
- 150% High starting torque at 1Hz
- Carrier Frequency adjustable to 20KHz
- Built-in PID control
- Built-in simple PLC function
- Multi-communication RS-485 interface
- Low noise operation
- Accel./Decel. Time (0.1 ~ 6500 sec) adjustable



HC1-A Series Dimension & Weight:

Model	Input Voltage	Rated Capacity (KVA)	Rated Output Current (A)	Suitable motor capacity (KW)	A	B	C	D	E	F	G	Gross Weight (KG)	Net Weight (KG)
HC1A00D423B	1 ϕ /3 ϕ 220V	1.0	2.5	0.4	116	125	161	170	141	ϕ 5		2	1.5
HC1A0D7523B	1 ϕ /3 ϕ 220V	2.0	5.0	0.75									
HC1A01D523B	1 ϕ /3 ϕ 220V	2.8	7.0	1.5									
HC1A02D223B	1 ϕ /3 ϕ 220V	4.0	10	2.2									
HC1A03D723B	1 ϕ /3 ϕ 220V	6.8	17	3.7	128	140	238	250	157			2.7	2.3
HC1A05D523B	3 ϕ 220V	9.8	25	5.5									
HC1A07D523B	3 ϕ 220V	13.0	33	7.5	130	204	324	340	200	ϕ 7		9	8
HC1A001123B	3 ϕ 220V	18.4	49	11									
HC1A001523B	3 ϕ 220V	24.2	65	15	182	253	437	457	241	ϕ 8	8	20	16
HC1A18D523B	3 ϕ 220V	29.6	75	18.5									
HC1A002223B	3 ϕ 200V	34	90	22	206	277	490	510				30	25
HC1A0D7543B	3 ϕ 400V	2.2	2.7	0.75	116	125	161	170	141	ϕ 5		2	1.5
HC1A01D543B	3 ϕ 400V	3.2	4.0	1.5									
HC1A02D243B	3 ϕ 400V	4.0	5.0	2.2									
HC1A03D743B	3 ϕ 400V	6.8	8.5	3.7									
HC1A05D543B	3 ϕ 400V	10	12.5	5.5	184	200	306	318	183	ϕ 6	6	5	4.2
HC1A07D543B	3 ϕ 400V	14	17.5	7.5									
HC1A001143B	3 ϕ 400V	19	24	11	182	253	490	510	241	ϕ 8	8	16	14.6
HC1A001543B	3 ϕ 400V	26	33	15									
HC1A18D543B	3 ϕ 400V	32	40	18.5	206	277	437	457	241	ϕ 8	8	20	18
HC1A002243B	3 ϕ 400V	37	47	22									
HC1A003043B	3 ϕ 400V	52	65	30	239	311						24	22
HC1A003743B	3 ϕ 400V	64	80	37	250	341	650	670	326	ϕ 10	10	64	49
HC1A005543B	3 ϕ 400V	84	110	55									
HC1A007543B	3 ϕ 400V	116	152	75	300	450	768	800	350	ϕ 16	16	95	85
HC1A009043B	3 ϕ 400V	134	176	90									
HC1A011043B	3 ϕ 400V	160	210	110	500	650	868	900	400			148	123
HC1A013243B	3 ϕ 400V	193	253	132									
HC1A016043B	3 ϕ 400V	230	304	160								152	127
HC1A018543B	3 ϕ 400V	260	340	185									
HC1A020043B	3 ϕ 400V	290	380	200	600	600	1795					250	225
HC1A022043B	3 ϕ 400V	325	426	220									
HC1A025043B	3 ϕ 400V	368	483	250									
HC1A028043B	3 ϕ 400V	412	540	280									
HC1A030043B	3 ϕ 400V	450	580	300									
HC1A031543B	3 ϕ 400V	461	605	315									
HC1A037543B	3 ϕ 400V	550	800	375									
HC1A041543B	3 ϕ 400V	610	880	415									
HC1A045043B	3 ϕ 400V	665	960	450	685	600	2215					300	225



Outline & Installed Dimension

HC1-C⁺ Series

Palm Mini AC MOTOR SPEED CONTROLLER

220V 0.4~1.5KW(1φ/3φ)
 400V 0.75~2.2KW(3φ)

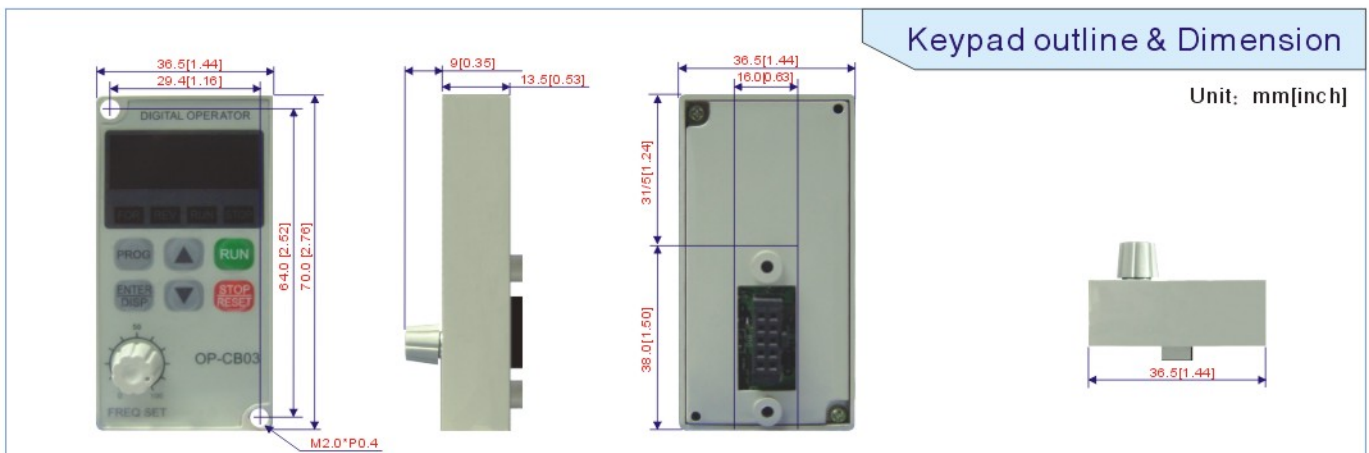
HC1-C⁺ Series



- Super mini size(W85×H141.5×D113mm) ●
- High technology of PIM module ●
- 150% High starting torque at 1Hz ●
- Carrier Frequency adjustable to 20KHz ●
- Built-in PID control ●
- Built-in simple PLC function ●
- Built-in RS-485 communication interface ●
- Low noise operation ●
- Accel./Decel. Time (0.1~6500 sec) adjustable ●
- Heat sink fan for main circuit save energy automatically ●
- Output frequency achieve to 600Hz at most ●
- Running with 4 stage speed ●

HC1-C⁺ Series Dimension & Weight:

Model	Input Voltage	Rated Capacity (KVA)	Rated Output Current (A)	Suitable motor capacity (Kw)	A	B	C	D	E	F	Gross Weight (KG)	Net Weight (KG)
HC1C00D423B	1φ/3φ 220V	1.0	2.5	0.4	74	85	130	141.5	113	φ5	1.2	1.0
HC1C0D7523B	1φ/3φ 220V	2.0	5.0	0.75								
HC1C01D523B	1φ/3φ 220V	2.8	7.0	1.5								
HC1C0D7543B	3φ 400V	2.2	2.7	0.75	89	100	140	151.0	116.5	φ5	1.5	1.2
HC1C01D543B	3φ 400V	3.2	4.0	1.5								
HC1C02D243B	3φ 400V	4.0	5.0	2.2								



Unit: mm[inch]

HC1-H Series

High Frequency AC MOTOR SPEED CONTROLLER

HC1-H Series

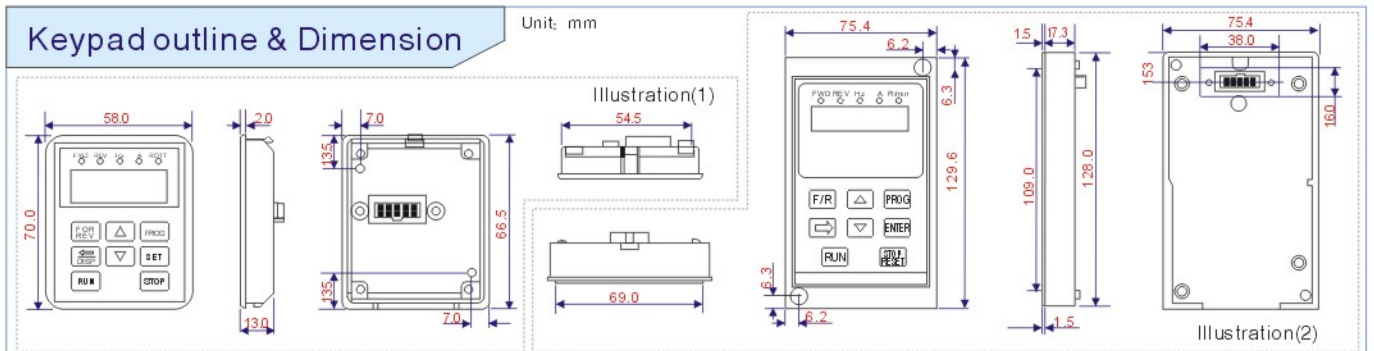
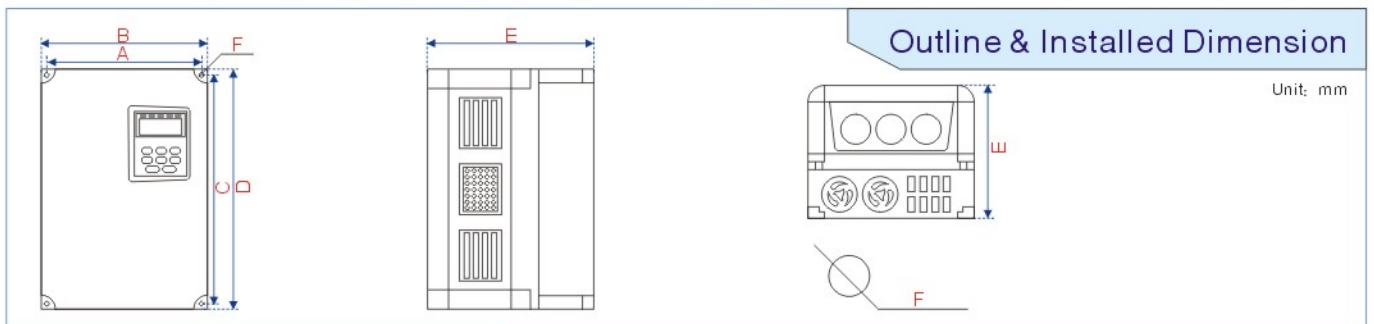
220V 0.4 ~ 3.7 KW(1φ/3φ)
 220V 5.5 ~ 22 KW(3φ)
 400V 0.75 ~ 45 KW(3φ)

- Comprehensive range: a) ≤ 7.5KW from 0.1 ~ 3000Hz
 b) > 7.5KW from 0.1 ~ 2500Hz
- High technology of PIM module
- 150% High starting torque at 1Hz
- Carrier Frequency adjustable to 20KHz
- Built-in PID control
- Built-in simple PLC function
- Multi-communication RS-485 interface
- Low noise operation
- Accel./Decel. Time (0.1 ~ 6500 sec) adjustable



HC1-H Series Dimension & Weight:

Model	Input Voltage	Rated Capacity (KVA)	Rated Output Current (A)	Suitable motor capacity (KW)	A	B	C	D	E	F	G	Gross Weight (KG)	Net Weight (KG)	
HC1H00D423B	1φ/3φ 220V	1.0	2.5	0.4										
HC1H0D7523B	1φ/3φ 220V	2.0	5.0	0.75	116	125	161	170	141	φ5		2	1.5	
HC1H01D523B	1φ/3φ 220V	2.8	7.0	1.5										
HC1H02D223B	1φ/3φ 220V	4.0	11	2.2	128	140	238	250	157			2.7	2.3	
HC1H03D723B	1φ/3φ 220V	6.8	17	3.7						φ7				
HC1H05D523B	3φ 220V	9.8	25	5.5	130	204	325	340	200			9	8	
HC1H07D523B	3φ 220V	13.0	33	7.5										
HC1H001123B	3φ 220V	18.4	49	11						241	φ8	8	20	16
HC1H001523B	3φ 220V	24.2	65	15	182	253	437	457						
HC1A18D523B	3φ 220V	29.6	75	18.5										
HC1A002223B	3φ 220V	34	90	22	206	277	490	510		φ8	8	20	16	
HC1H0D7543B	3φ 400V	2.2	2.7	0.75						φ5				
HC1H01D543B	3φ 400V	3.2	4.0	1.5	116	125	161	170	141			2	1.5	
HC1H02D243B	3φ 400V	4.0	5.0	2.2										
HC1H03D743B	3φ 400V	6.8	8.5	3.7	128	140	238	250	157			2.7	2.3	
HC1H05D543B	3φ 400V	10	12.5	5.5						φ6	6	5	4.2	
HC1H07D543B	3φ 400V	14	17.5	7.5	184	200	306	318	183					
HC1H001143B	3φ 400V	19	24	11										
HC1H001543B	3φ 400V	26	33	15						241	φ8	8	16	14.6
HC1H18D543B	3φ 400V	32	40	18.5	182	253	437	457						
HC1H002243B	3φ 400V	37	47	22										
HC1H003043B	3φ 400V	52	65	30						φ10	10	24	22	
HC1H003743B	3φ 400V	64	80	37	206	277	490	510						
HC1H004543B	3φ 400V	72	91	45	239	311								
					250	341	650	670	326			64	49	



* The dimension of keypad outline of A, P, H series are the same, 3.7kw and below shown as Illustration(1); 5.5KW and upward shown as Illustration(2).

HC1-P Series

HVAC Pump AC MOTOR SPEED CONTROLLER

220V 3.7~22 KW(3 ϕ)
 400V 3.7~450 KW(3 ϕ)

HC1-P Series



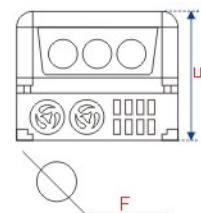
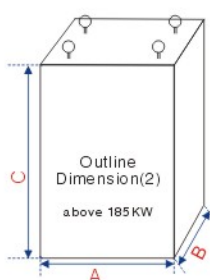
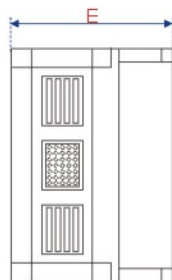
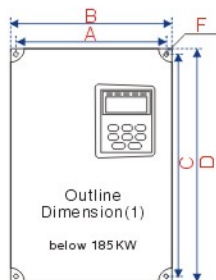
- Built-in PID control ●
- Built-in PLC function ●
- Over load capacity: 120% ●
- Multi-communication RS-485 interface ●
- Fan & Pump process control ●
- Sleep/Wake-up function ●
- Constant Water-Supply control panel for 11kw ●
and upward by option
- With constant Water-Supply control panel to achieve ●
the function of one-drive-six

HC1-P Series Dimension & Weight:

Model	Input Voltage	Rated Capacity (KVA)	Rated Output Current (A)	Suitable motor capacity (KW)	A	B	C	D	E	F	G	Gross Weight (KG)	Net Weight (KG)
HC1P03D723B	3 ϕ 220V	6.8	17	3.7	128	140	238	250	157			2.7	2.3
HC1P05D523B	3 ϕ 220V	9.8	25	5.5	130	204	325	340	200	ϕ 7		9	8
HC1P07D523B	3 ϕ 220V	13.0	33	7.5									
HC1P001123B	3 ϕ 220V	18.4	49	11	182	253	437	457				20	16
HC1P001523B	3 ϕ 220V	24.2	65	15					241	ϕ 8	8		
HC1P18D523B	3 ϕ 220V	29.6	75	18.5								30	25
HC1P002223B	3 ϕ 220V	34	90	22	206	277	490	510					
HC1P03D743B	3 ϕ 400V	6.8	8.5	3.7	128	140	238	250	157	ϕ 5		2.7	2.3
HC1P05D543B	3 ϕ 400V	10	12.5	5.5	184	200	306	318	183	ϕ 6	6	5	4.2
HC1P07D543B	3 ϕ 400V	14	17.5	7.5									
HC1P001143B	3 ϕ 400V	19	24	11	182	253	437	457	241		8	16	14.6
HC1P001543B	3 ϕ 400V	26	33	15									
HC1P18D543B	3 ϕ 400V	32	40	18.5	206	277	490	510	241	ϕ 8		20	18
HC1P002243B	3 ϕ 400V	37	47	22									
HC1P003043B	3 ϕ 400V	52	65	30	239	311						24	22
HC1P003743B	3 ϕ 400V	64	80	37									
HC1P004543B	3 ϕ 400V	72	91	45	250	341	650	670	326	ϕ 10	10	64	49
HC1P005543B	3 ϕ 400V	84	110	55								68	52
HC1P007543B	3 ϕ 400V	116	152	75	300	450	826	860	350			95	85
HC1P009043B	3 ϕ 400V	134	176	90									
HC1P011043B	3 ϕ 400V	160	210	110						ϕ 6	6	148	123
HC1P013243B	3 ϕ 400V	193	253	132	500	650	868	900	400			152	127
HC1P016043B	3 ϕ 400V	230	304	160									
HC1P018543B	3 ϕ 400V	260	340	185									
HC1P020043B	3 ϕ 400V	290	380	200									
HC1P022043B	3 ϕ 400V	325	426	220	600	600	1795					250	225
HC1P025043B	3 ϕ 400V	381	438	250									
HC1P028043B	3 ϕ 400V	427	540	280									
HC1P031543B	3 ϕ 400V	460	605	315									
HC1P037543B	3 ϕ 400V	560	715	375									
HC1P041543B	3 ϕ 400V	610	795	415	685	600	2215					300	250
HC1P045043B	3 ϕ 400V	658	862	450									

Outline & Installed Dimension

Unit: mm



TECORP AC MORTER SPEED CONTROLLER

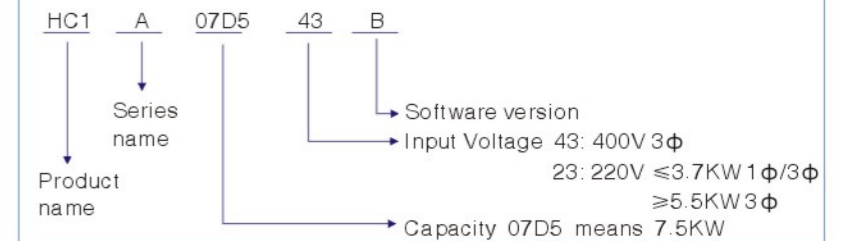
Complete Range & Specification



Specification		A series	C ⁺ series	H series	P series
Control Method		SPWM	SPWM	SPWM	SPWM
Input Voltage 50/60Hz	1 Phase / 3 Phase 200V	0.4~3.7KW	0.4~1.5KW	0.4~2.2KW	×
	3 Phases 200V	5.5~22KW	×	5.5~22KW	3.7~22KW
	3 Phases 400V	0.75~415KW	0.75~2.2KW	0.75~45KW	3.7~450KW
Input Power Tolerance		±15%	±15%	±15%	±15%
Products Range		200V 0.4~22KW	200V 0.4~1.5KW	200V 0.4~22KW	200V 3.7~22KW
		400V 0.75~415KW	400V 0.75~2.2KW	400V 0.75~45KW	400V 3.7~450KW
Output Frequency		0~400Hz	0~400Hz	a) ≤7.5KW from 0.1-3000HZ b) >7.5KW from 0.1-2500HZ	0~400Hz
Over Load Protection		150% 1min	150% 1min	150% 1min	120% 1min
Digital Input		6	6	6	6
Digital Output	Relay Output	1C1A	1C	1C1A	1C1A
	Open Collector	2	1	2	2
Analogue Input	0~10Vde	○	○	○	○
	4~20mA	○	○	○	○
Analogue Output	0~10Vdc	○	○	○	○
Keypad		5 Bits LED	4Bits LED Keypad Built-in VR	5 Bits LED	5Bits LED
Communication Interface		○	○	○	○
Carrier Frequency		0.7~20K	1.5~16K	1.5~16K	0.7~20K
Sequence Operation		○	○	○	○
PID		○	○	○	○
Dynamic Braking Unit		220V Under 3.7KW built-in 400V Under 7.5KW built-in	Built-in	220V Under 3.7KW built-in 400V Under 7.5KW built-in	220V Under 3.7KW built-in 400V Under 7.5KW built-in

Ordering Number

MODE: HC1A07D543B
INPUT: 3Ph 400V 50Hz
OUTPUT: 3Ph 400V 17.5A 7.5KW
Freq-Range: 0.1~400Hz
TECORP TECHNOLOGY



Braking Unit



HC1-CDBR

Complete Range
 400V 3φ
 CDBR-4030
 CDBR-4045

Braking unit V.S Braking Resistor (10% ED)

Inverter (KW)	Model	QTY	Braking Resistor
11KW	CDBR-4030	1	1040W 50Ω
15KW	CDBR-4030	1	1560W 40Ω
18KW	CDBR-4030	1	4800W 32Ω
22KW	CDBR-4030	1	4800W 27.2Ω
30KW	CDBR-4030	1	6000E 20Ω
37KW	CDBR-4045	1	9600W 16Ω
45KW	CDBR-4045	1	9600W 13.6Ω
55KW	CDBR-4045	2	6000W 20Ω
75KW	CDBR-4045	2	9600W 13.6Ω
90KW 110KW	CDBR-4045	3	6000W 20Ω
132KW 160KW	CDBR-4045	4	6000W 13.6Ω 9600W 13.6Ω
185KW	CDBR-4045	5	9600W 13.6Ω

TECORP TECHNOLOGY

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