



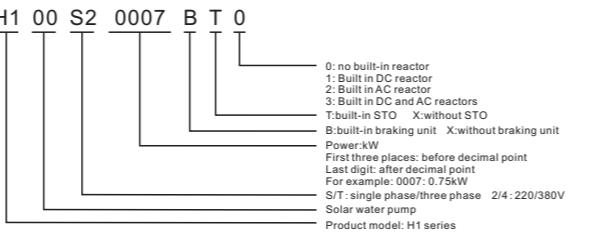
H1 Series Inverter USER MANUAL

NO.1 Product introduction

1.1 Technical Features

Items	Description
input	Rated voltage /frequency 3ph: 380V~440V , 50Hz/60Hz 1ph: 200V~240V , 50Hz/60Hz
output	Allowed voltage 3ph: 320V~460V ; 1ph: 180V~260V; voltage Imbalance rate: <3% ; frequency: ±5%
control performance	Voltage 0~rated input voltage Frequency 0Hz~1000Hz Overload capacity 150% rated current 60s, 180% rated current 2s Control mode V/F, SVC Modulation Mode SVPWM Motor type asynchronous motor, synchronous motor, single phase motor (consult factory before using) Start torque 1Hz/150% Speed range 1:100(SVC) Frequency accuracy digital setting: maximum frequency±0.01%; analog setting: maximum frequency±1%; Frequency resolution digital setting: 0.1Hz; analog setting: maximum frequency±1%; Acceleration/deceleration curve line/ S-curve Rapid current limit limit current rapidly within the current protection value, to ensure the safety of the equipment Non-stop when instantaneous power off non-stop when instantaneous power off, automatic frequency drop Command source keypad, terminal, communication Set value source digital, analog,multi-speed,communication PID support main setting+PID LED display Can display: output frequency,output voltage,output current , Bus voltage, display value 1 , display value 2 , error, alarm External keypad YES Protection function over-current protection, over-voltage protection, under-voltage protection, overheating protection, over-load protection, phase lose protection, earth leakage, etc Store environment indoor, away from direct sunlight, no dust, no corrosive gas, no inflammable gas, no oil mist, no vapour, no drip and no salinity, etc Altitude derating use above 1000M, derating 10% per 1000M Environment temperature -10°C~+40°C(environment temperature around 40°C~50°C please derating use) Humidity 5%~95%RH, no condensation Store temperature -40°C~+70°C Vibration <5. 9M/S (0.6g)

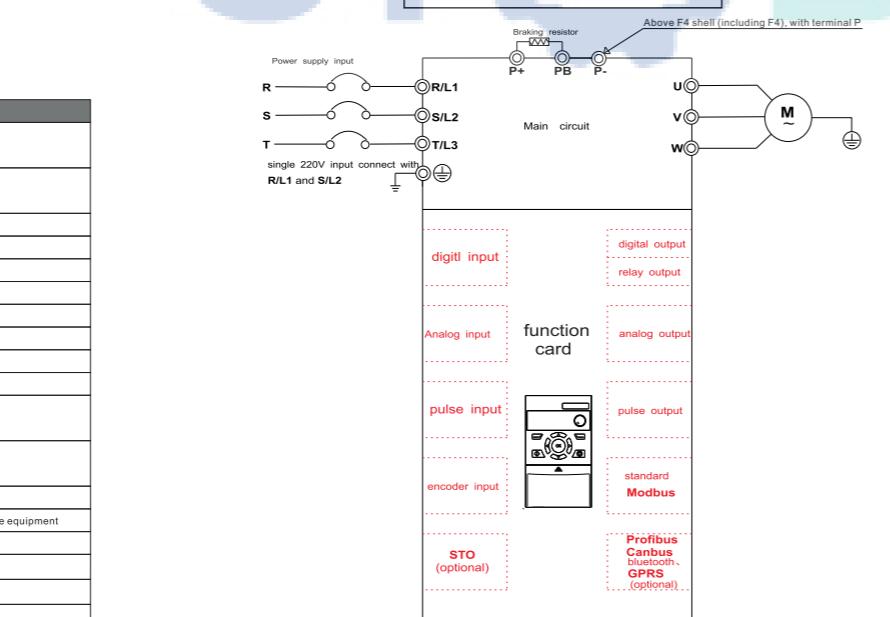
1.2 H1 nameplate



1.3 H1 series specifications and models

Base.No	Models	Input voltage	input current (A)	Power (kW)	output current (A)	Adaptive motor(kW)
F1	H100S20007BX0	1 phase 220V	8.2	0.75	5.0	0.75
	H100S20015BX0	1 phase 220V	14.0	1.5	7.0	1.5
F2	H100T20022BX0	1 phase 220V	23.0	2.2	12.5	2.2
		3 phase 220V	13.5			
F3	H100T20037BX0	1 phase 220V	38.6	3.7	15.2	3.7
		3 phase 220V	16.5			
F4	H100T20075BX0	3 phase 220V	37	7.5	31	7.5
	H100T20110BX0	3 phase 220V	52	11	45	11
F1	H100T40007BX0	3 phase 380V	4.0	0.75	3.0	0.75
	H100T40015BX0	3 phase 380V	5.8	1.5	4.5	1.5
F2	H100T40022BX0	3 phase 380V	6.5	2.2	5.6	2.2
	H100T40040BX0	3 phase 380V	12.6	4.0	10.5	4.0
F3	H100T40055BX0	3 phase 380V	16	5.5	14	5.5
	H100T40075BX0	3 phase 380V	21	7.5	19	7.5
F4	H100T40110BX0	3 phase 380V	28	11	26	11
	H100T40150BX0	3 phase 380V	36	15	33	15
F5	H100T40185BX0	3 phase 380V	42	18.5	40	18.5
	H100T40220BX0	3 phase 380V	48	22	46	22
F6	H100T40300BX0	3 phase 380V	62	30	58	30
	H100T40370BX0	3 phase 380V	76	37	75	37
F7	H100T40450XX0	3 phase 380V	92	45	90	45
	H100T40550XX0	3 phase 380V	113	55	110	55
F8	H100T40750XX0	3 phase 380V	157	75	150	75
	H100T40900XX0	3 phase 380V	180	90	170	90
F9	H100T41100XX0	3 phase 380V	214	110	210	110
	H100T41320XX0	3 phase 380V	256	132	250	132
	H100T41600XX0	3 phase 380V	307	160	300	160

NO.2 Main circuit and function card



Notice: different function card corresponding to different terminals. Except standard function card, can customize any type of card.

Reset parameters when using different function cards. An AC drive only can use one function card.

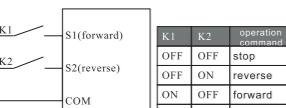
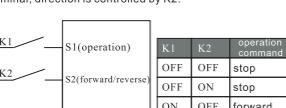
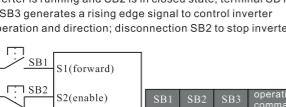
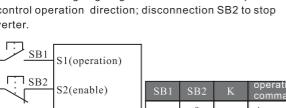
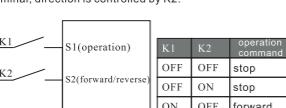
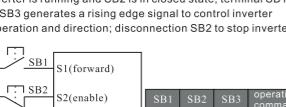
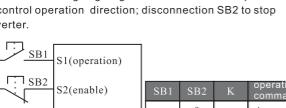
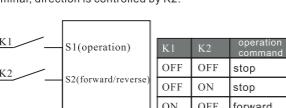
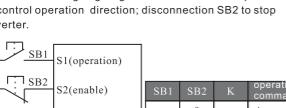
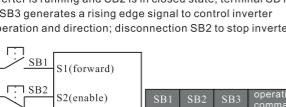
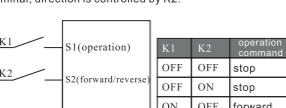
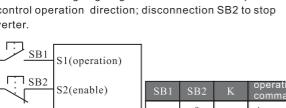
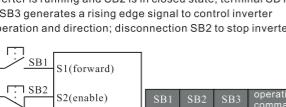
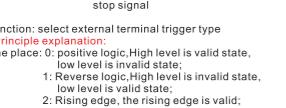
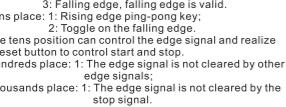
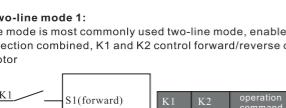
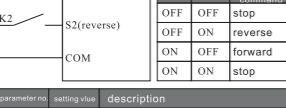
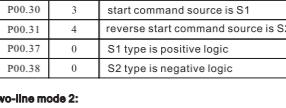
Warning: Do not use function card when power is on!

2.1 Main circuit terminal description

Terminal identification	Name	Function description
(G)	Grounding terminal	Safety grounding
R/L1、S/L2、T/L3	Main circuit power input terminal	Connect three phase power supply, single phase power supply connect to R/L1, S/L2
P+、PB	Braking terminal	Connect to external braking resistor
P+、P-	DC bus terminal	Two sets or more inverters use a common DC bus (Above F4 shell (including F4), with terminal P)
U、V、W	output terminal	Connect to three phase motor

2.2 Function card configuration table

H 0001		Function card configuration table											
Function configuration		H0100 H0101 H0102 H0103 H0104 H0110 H0120 H0130 H0131 H0200 H0201 H0300 H0310 H0320 H0350											
HOUSING:		SK10 SK20 SK30											
Reserve Built-in function card		Ave. current/Ave. voltage											
Physical characteristics		H0100 H0101 H0102 H0103 H0104 H0110 H0120 H0130 H0131 H0200 H0201 H0300 H0310 H0320 H0350											
Digital input		2 4 1 4 2 5 10 5 1 10 10 4 5 3											
Digital output		1 1 3 1 2 2 1 3 3 1 1 1											
Relay output		1 1 1 1 1 1 1 1 1 1 1 1											
Analog input		1 1 1 1 1 1 1 1 1 1 1 1											
Pulse input		1 1 1 1 1 1 1 1 1 1 1 1											
Pulse output		1 1 1 1 1 1 1 1 1 1 1 1											
Encoder input		1 1 1 1 1 1 1 1 1 1 1 1											
Modbus		1 1 1 1 1 1 1 1 1 1 1 1											
STO		1 1 1 1 1 1 1 1 1 1 1 1											
Display		Digital tube Digital tube Digital tube Digital tube Digital tube Digital tube											
Potentiometer		Analog Analog Analog Analog Analog Analog											
Toggle switch		1 1 1 1 1 1 1 1 1 1 1 1											
12V power supply		1 1 1 1 1 1 1 1 1 1 1 1											
10V power supply</													

Function code	Function	Description(setting range)	Factory default																												
P00.37	S1 type	One place: 0: Positive logic 1: Reverse logic 2: Rising edge 3: Falling edge Tens place: 1: Rising edge toggle 2: Falling edge toggle Hundreds place: 1: The edge signal is not cleared by other edge signals Thousands place: 1: The edge signal is not cleared by the stop signal Function: select external terminal trigger type * Principle explanation: One place: 0: positive logic, High level is valid state, low level is invalid state; 1: Reverse logic, High level is invalid state, low level is valid state; 2: Rising edge, the rising edge is valid; 3: Falling edge, falling edge is valid; Tens place: 1: Rising edge ping-pong key; 2: Falling edge ping-pong key; The tens position can control the edge signal and realize a reset button to control start and stop. Hundreds place: 1: The edge signal is not cleared by other edge signals; Thousands place: 1: The edge signal is not cleared by the stop signal. *two-line mode 1: the mode is most commonly used two-line mode, enable and direction combined, K1 and K2 control forward/reverse of motor	0																												
																															
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P00.40	Y1 terminal source	0:always 0 1:always 1 2:stopped 3:running 4:fault 5:alarm 6:reversing 64:STO status 100~9999:high level parameter * Principle interpretation: terminal source setting value ≥ 100 (address mode), the address is selected parameter no., actual value is decided by current value of selected parameter no.. terminal source function description as below:	3																												
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P00.41	AI1 low side voltage(current)	-999999.000~999999.000 * Principle interpretation: A1 low side voltage/current: set the lowest voltage/current of input signal A1 high side voltage/current: set the highest voltage/current of input signal A1 low side setting: set corresponding value of low side voltage/current. A1 high side setting: set corresponding value of high side voltage/current.	0.000V(mA)																												
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