SPENESTA

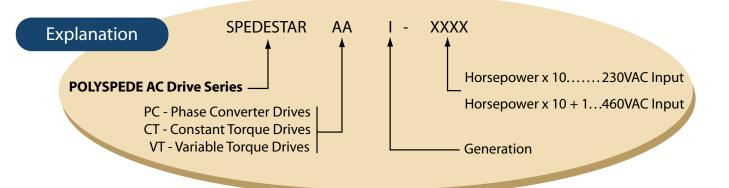




## Specifications

	SPEDES	STAR Series		CT1				
	Max	230VAC 1-Phase	e N/A)					
Ap Mot	plicable or Output	230VAC 3-Phase	11 - 45kW (15 - 60HP)					
	Range	460VAC 3-Phase		11 - 75kW (15 - 100HP)				
	Output Frequency		0.1 - 600Hz					
			150% of rated current for 1 minute/10 minutes					
Output	Overload Protection		Ta <=40, 200% of rated current for 2 seconds					
ō	Maximum Output Voltage		Proportional to Input Voltage, 3-Phase					
	Power Factor/Efficiency		Power factor no lower than 0.95. Efficiency no lower than 95% at full load					
	Control System		SPWM (Sinusoidal Pulse Width Modulation), V/F control and Sensorless Vector Control					
	Output Frequency		0.1 - 600Hz, Programable					
v	Output Frequency Resolution		0.01Hz					
istic	PWM Carrier Frequency		1kHz - 18kHz Adjustable (Some models are limited)					
cteri	Torque Characteristics		Including the auto-torque, auto-slip compensation, starting torque can be 150% at 1.0Hz					
arac	Skip Frequency		Setting range 0.1-600Hz, Max. 3 points					
5	Accel/Decel Time		0.1-6000 seconds (2 Independent settings for Accel/Decel Time)					
Control Characteristics	Staff Prevention Level		10 to 250%, Setting of Rated Current. Setting range 0.1-600Hz while stop					
Ō	DC Braking		DC Braking Current Level: 0 to 125% of rated output current. DC Braking time: 0 to 60 seconds. Start-Point for DC Braking: 0.1-600Hz both when start up and stop.					
	Braking Torque		Approx. 20%. Dynamic Brake chopper built-in in Frame code: G1-A and G1-B. Others can be built-in as an option. All models can connect to external Dynamic Brake Unit (DBU)					
	V/F Pattern			Adjustable V/F curve using 4 independent points				
	Frequency Setting		Keypad	By a rotary encoder (setting resolution 0/01 Hz/step)				
tics			External Signal	0~+10VDC((Input impedance 20kΩ), -10VDC((Input Impedance 10kΩ), 4 ~20mA dc ((Input impedance, Multi-Function Inputs 1~6 (15 Steps Jog, up/down), PLC run, RS-485 Interface MODBUS protocol				
eris	Operation Setting		Keypad	Set by RUN, STOP and JOG				
Operating Characteristics			External Signal	FWD, REV, MI1 to MI6 can be combined to offer various modes of operation, RS-485 serial interface MODUS protocol				
ng Cl	Multi-Function Input Signal (6 signals)		Multi-step selection 0 to 15, first to second Accel/Decel switches, Accel/Decel inhibit, EF Input, Emergency Stop, Auxiliary Motor Control is Invalid, ACI/AV/AUI Speed Command Selection, Reset, PLC Run, Jog, Up/Down command, Sink/Source Selection					
oeratii	Multi-Function Output Indications (5 Indications)		Drive Operating, Frequency Attained, Non-zero, Base Block, Fault Indication, Local/Remote indication, PLC Operation Indication, and Auxiliary Motor Output					
ō	Analog Output Signal		Analog Signal Output. Proportional to Output Frequency, Output Current, Voltage, Frequency Command, Sink Source Selection					
	Fault Indication		The output will be activated when faults occur (1 Relay contact point RA, RB, RC or 2 Open-collector output)					
	Fault Indications Other Functions			PID feedback control, automatic voltage regulation, Momentary Power Loss restart, S-Curve, External Fault, Fault Reset, Auto Restart, Fault Records, Prevention, Frequency Limits, Fan & Pump control, Parameter Lock/Reset, Auto Tuning, Reverse inhibition, Over-Voltage/Over-Current Stall Prevention, automatic energy-saving, DC Braking, Speed Search during Start-up, PLC, MODBUS Communication				
	Protection			Self-testing, AC source Over-Voltage, Over Voltage, Over Current, Under Voltage, Over Load, Overheating, External Fault, Electronic Thermal, Ground Fault, Stall Prevention, Output short circuit, IGBT				
			<b>Eight Function Keys:</b> Access Run, Stop, Reset/Digit Shift, Forward/Reverse Run, Display Mode, Keypad Enable, Programming data and Job operation.					
Digital Keypad			One 360 degree Rotary Encoder: Sets the parameter number and changes the numberical data					
			One 6 digits 7 segment display: Display the Setting Frequency/Actual Operation Frequency, Output  Current/Volage, User Defined Unit					
			Six LED Display for status indication: Display the Drive Run/Stop Status, Forward/Reverse Run Status, Keypad Enable, and Frequency command source					
				Removable Keypad, Remote Control Distance Up To 150 Meters				
	ent	Temperature		Ambient: -10°C ~ +40°C (Non-Condensing and Not Frozen) Storage: 20°C ~ + 60°C				
	Ĕ	Humidity		Below 90% RH (Non-Condensing)				
	Environment	Vibration		Below 20Hz: 1G, Above 20Hz: 0.6G				
	<u>ម</u> In	stallation Location		Altitude 1,000m or lower, keep away from corrosive gasses, liquid and dust				



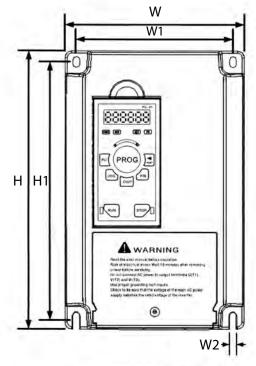


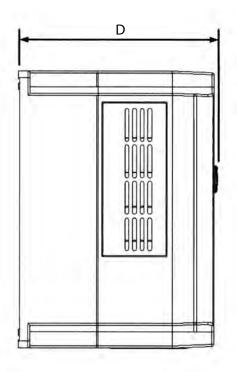
Motor Rating		180 ~ 264 VAC, 47 ~ 63 Hz THREE PHASE INPUT POWER					342 ~ 528 VAC, 47 ~ 63 Hz THREE PHASE INPUT POWER				
HP	(kW)	Model No.	Capacity (kVA)	Input (A) Current	Output (A) Current	Frame Size	Model No.	Capacity (kVA)	Input (A) Current	Output (A) Current	Frame Size
15	11	CT1-150	18.7	53.9	49	С	CT1-151	18.3	26.4	24	С
20	15	CT1-200	24.8	71.5	65	С	CT1-201	24.4	35.2	32	С
30	22	CT1-300	34.3	99	90	С	CT1-301	34.3	49.5	45	С
40	30	CT1-400	45.7	132	120	D	CT1-401	45.7	66	60	С
50	37	CT1-500	55.6	161	146	D	CT1-501	55.6	80.3	73	D
60	45	CT1-600	69	200	182	D	CT1-601	69.3	100	91	D
75	55	N/A	N/A	N/A	N/A		CT1-751	83.8	121	110	D
100	75	N/A	N/A	N/A	N/A		CT1-1001	114	165	150	D

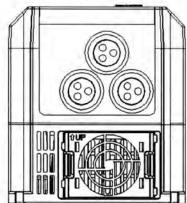




## Dimensions







See Dimensions Below For Accurate Measurements

## Unit: mm(inch)

FRAME	w	W1	W2	н	H1	D	Weight(lbs)
Α	160 (6.30)	140 (5.51)	6 (0.24)	250 (9.84)	230 (9.06)	186 (7.32)	7
В	200 (7.87)	180 (7.09)	6 (0.24)	275 (10.83)	255 (10.04)	206 (8.11)	11
С	260 (10.24)	236 (9.29)	6 (0.24)	458 (18.04)	410 (16.14)	242 (9.53)	30
D	410 (16.14)	369 (14.53)	6 (0.24)	470(18.50)	447 (17.58)	287 (11.30)	50
E	540 (21.26)	486 (19.13)	6 (0.24)	794 (31.26)	754 (29.70)	347 (13.66)	80