



TSTA DRIVERS

SPECIFICATION

Model No.		TSTA15C	TSTA20C	TSTA30C	TSTA50D	TSTA75D
Inpur Power Supply	Main Circuit R、S、T	Single/Three Phase 200~230Vac +10~-15% 50/60 Hz ± 5%			Three Phase 200~230Vac +10~-15% 50/60 Hz ± 5%	
	Control Circuit r、s	Single Phase 200~230Vac +10~-15% 50/60 Hz ± 5%				
Weight (KG)		1.9	1.9	2.4	4.7	4.7
Cooling System		Natural Air Circulation			Fan Cooling	
Available Servo Motor (Applicable Motor Models)		TSB07301 7CB30	TSB08751 8CB75	TSC08751 8CC751	TSB13152 3MB150	TSB13302 3MB300
		TSC06201 6CC201	TSC06401 6CC401	TSB13102 3MB100	TSB13202 3MB200	
		TSC06401 6CC401	TSC08751 8CC751			
			TSB13551 3MB055			
Control of Main Circuit		SVPWM Control				
Control Mode		Position(External or Internal) , Speed, Torque, Position/Speed, Speed/Torque, Position/Torque				
Encoder Resolution Feedback Resolution		2000ppr/8000ppr ; 2500ppr/10000ppr ; 8192ppr/32768ppr				
Command Source		External Pulse Control / Internal Parameters				

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Position Control Mode	Input Pulse	Type	Positive / Negative Edge Trigger Type : Pulse+Direction, A phase + B phase, CCW pulse + CW pulse				
			Line Driver(+5V), Open Collector (+5V or +24V)				
		Max.Frequency	500 KPPS (Line Driver) / 200KPPS (Open Collector)				
	Internal Position Command		16 Programmable Position Parameters				
	Feed Forward Gain		0~100%				
	Built-in Control Voltage		+24V				
	Electronic Gear		$1/200 \leq A / B \leq 200$ (A=1~50000, B=1~50000)				
	Position Smoothing Constant (Input Ripple Filtering)		Ripple Time Constant 0~10 sec (Time Constant 0~10 sec)				
	Final Position Tolerance (In Position)		0~50000 Pulse				
	Torque Limit Operation		Set by Parameters				
	Feed Forward Compensation		Set by Parameters				
Speed Control Mode	Speed Control Range		1 : 50000(Internal) 1 : 20000(External)				
	Speed Fluctuation Rate		-0.03% or less at load fluctuation 0 to 100%(at rated speed) 0.2% or less at power fluctuation ± 10 (at rated speed) 0.5% or less at ambient temperature fluctuation 0°C to 50°C (at rated speed)				
	Internal Speed Command		Three preset speeds available through defining User's Parameter				
	Zero Speed Command		0~3000rpm				
	Limit of Speed Up or Down		Line and Speed up or down, time constant 0~50 sec, smoothing time constant 0~10 sec				
	P/PI Switch		Switch by control terminal input				
	Speed Reached		0~3000rpm				
	Frequency Response Characteristic		Max. 400Hz				
	Servo Lock		Set by Parameters(switch to lock on position command)				
	Voltage Command		0 ~ ± 10 Vdc / 0 ~ ± 3000 rpm				
	Input Impedance		10k Ω				

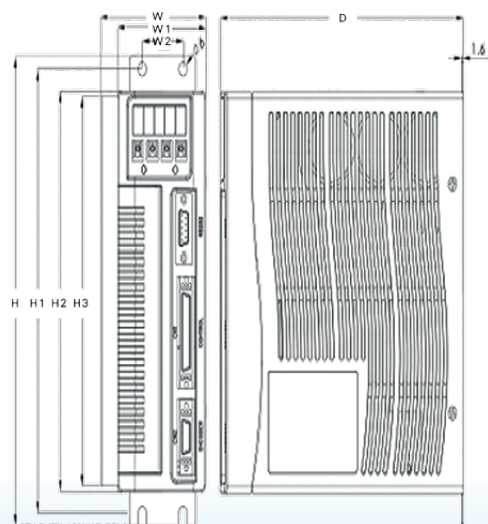
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Model No.			TSTA15C	TSTA20C	TSTA30C	TSTA50D	TSTA75D
Torque Control Mode	Voltage Command		0 ~ ± 10Vdc / 0 ~ ± 300%				
	Input Impedance		10kΩ				
	Torque Time Constant		Time Constant 0~50 sec				
Digital	Position Output	Output type	A、B、Z Line drive output				
		Encoder Ratio	1~8192 encoder ratio (any arbitrary value)				
	Input	Optional input to 13 ports	Servo on、Alarm reset、P/PI switching、Forward/Reverse inhibit limit、External torque limit、External torque limit、Pulse deviation clear、Servo lock、Emergency stop、Speed command selection、Control mode switching、Pulse command inhibit、Gain switching、Electronic gear ratio setting、Internal pulse command trigger、Internal pulse command pause、Homing mode positioning、External reference signal、Internal position command switching、Speed / Torque command reverse、Torque mode forward / reverse start				
		Fix output to 4 ports	Servo ready、Servo alarm、Zero speed、Brake interlock、Speed reach、Positioning completed、Homing completed、Torque resch				
	Output	Optional input to 4 ports					
Analog Monitoring Output			Monitor signal can be set by parameters.				
Protection Function			Over voltage、Over load、IGBT error、Encoder error、DI/DO writer-in error、Memory abnormal、Emergency stop、Over current、Pulse deviation value、Over speed、CPU abnormal、Inhibit limit、Over heat				
Communication Interface			RS232 (connect to PC or digital operator)				
Environment	Altitude Install Location		Altitude 1000m or lower above sea level indoor(avoiding direct sunshine) no corrosive smoke (avoiding oil smoke、inflammable gas and dust)				
	Temperature		Operating temperature 0~55℃, storage temperature -20~+85℃				
	Humidity		operating、storage below 85℃				
	Vibration		Below 0.5G				

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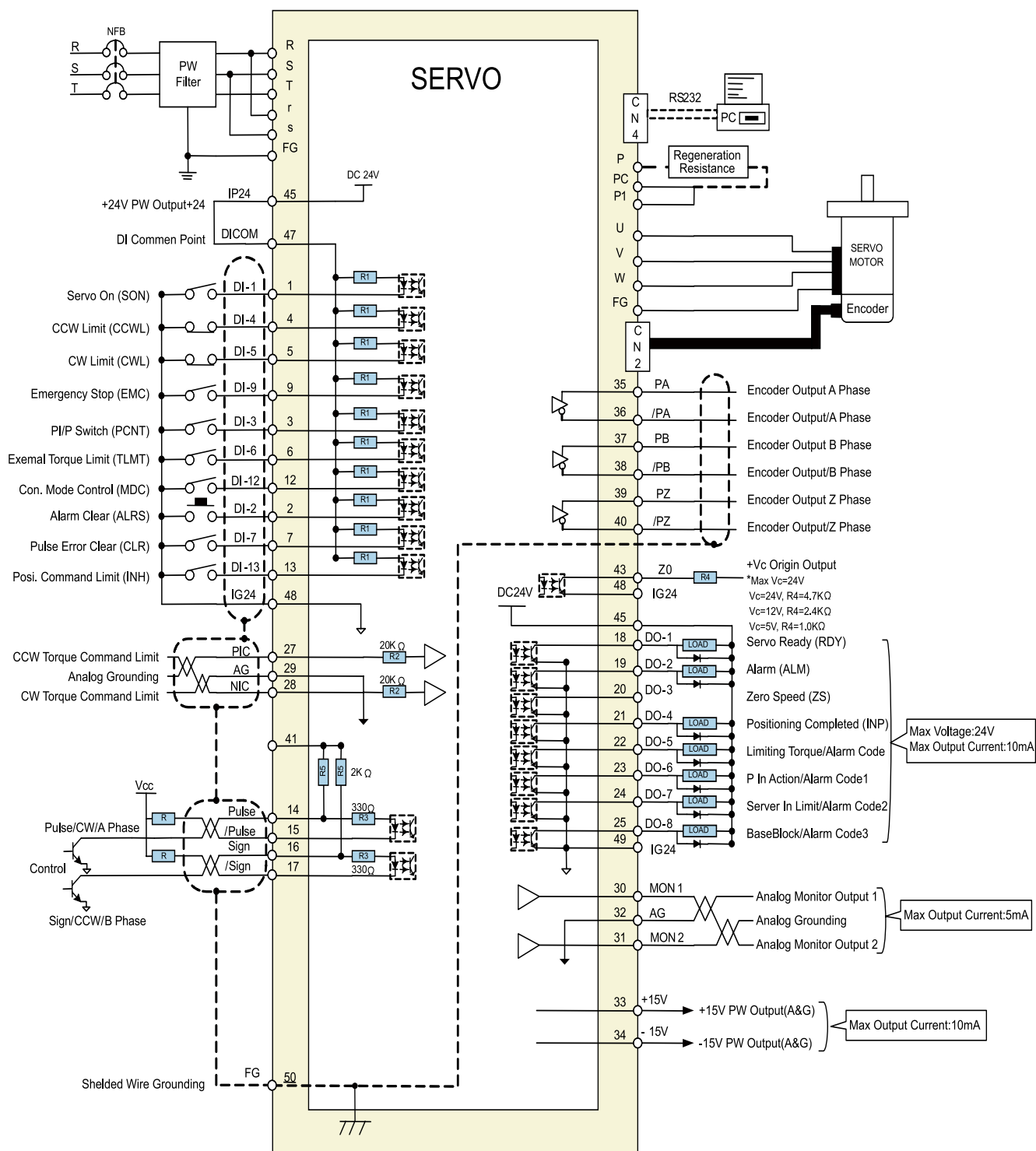
DIMENSION



(mm)

	H	H1	H2	H3	W	W1	W2	D
TSTA-15C/20C	206	176	171	0	67	67	31	185
TSTA-30C	206	195	176	171	80	67	31	185
TSTA-50D/75D	287.5	271.5	248.2	245	110	70	46	181.6

POSITION CONTROL MODE



SPEED CONTROL MODE

