TS-X/TS-P

Model		TS-X / TS-P				
Item		100V AC input		200V AC input		
Basic specifications	Driver model	TS-X105 / TS-P105	TS-X110 / TS-P110	TS-X205 / TS-P205	TS-X210 / TS-P210	TS-X220 / TS-P220
	Number of controllable axes	Single-axis				
	Controllable robots	TS-X: Single-axis robot FLIP-X series TS-P: Linear motor single-axis robot PHASER series				
	Power capacity	400VA	600VA	400VA	600VA	1400VA
	Dimensions	W58 × H162 × D131mm				W70 × H162 × D131mm
	Weight	Approx. 0.9kg				Approx. 1.1kg
	Input power supply — Control power supply	Single phase AC100 to 115V +/-10% 50/60Hz		Single phase AC200 to 230V +/-10% 50/60Hz		
	Input power supply — Motor power supply	Single phase AC100 to 115V +/-10% 50/60Hz		Single phase AC200 to 230V +/-10% 50/60Hz		
Axis control	Control method	Closed loop vector control method				
	Operating method	I/O point tracing (Positioning operation by specifying point number) / Remote command				
	Operation types	Positioning, merge-positioning, push, and jog operations				
	Position detection method	TS-X: Resolver with multi-rotation absolute function TS-P: Magnetic type linear scale				
	Resolution	TS-X: 16384 pulses/rev. TS-P: 1μm				
	Origin search method	TS-X: Absolute / Incremental TS-P: Incremental / Semi-absolute				
Points	Number of points	255 points				
	Point type setting	(1) Standard setting: Set speed and acceleration in percent of the respective maximum settings. (2) Custom setting: Set speed and acceleration in SI units.				
	Point teaching method	Manual data input (coordinates input) , Teaching, Direct teaching				
External input/output	I/O interface	Selectable from the following: NPN, PNP, CC-Link, DeviceNet™, EtherNet/IP™, PROFINET				
	Input	Servo ON (SERVO), reset (RESET), start (START), interlock (/LOCK) origin search (ORG), manual mode (MANUAL), jog motion - (JOG-), jog motion + (JOG+), Point number selection (PIN0 to PIN7)				
	Output	Servo status (SRV-S), alarm (/ALM), operation end (END), operation in-progress (BUSY), control outputs (OUT0 to 3), Point number output 0 to 7 (POUT0 to POUT7)				
	External communications	RS-232C 1CH				
	Power supply for brake	DC24V +/-10% 300mA (prepared by the customer)				
	Safety circuit	Emergency stop input, main power input ready output, emergency stop contact output (1 system: When the HT1 is used.)				
Options	Handy terminal	HT1, HT1-D (with enable switch)				
	Support software for PC	TS-Manager				
General specifications	Operating temperature / Operating humidity	0°C to 40°C, 35% to 85%RH (non-condensing)				
	Storage temperature / Storage humidity	-10°C to 65°C, 10% to 85%RH (non-condensing)				
	Atmosphere	Indoor location not exposed to direct sunlight. No corrosive , flammable gases, oil mist, or dust particles				
	Anti-vibration	All XYZ directions 10 to 57Hz unidirectional amplitude 0.075mm 57 to 150Hz 9.8m/s²				
	Protective functions	Position detection error, power module error, temperature error, overload, overvoltage, low voltage, excessive position deviation, overcurrent, motor current error				
	Protective structure	IP20				