Tehničke specifikacije

Physical Features	Transistor	
Size(W×H×D)	137×80×62mm	
Power dissipation	7W	
Power supply	DC：20.4 to 28.8V	AC： 85V~265V
Rated power supply	24VDC	220VAC
Memory Features		
Program memory	12KB， expandable to 16KB	
Data memory	8KB	
Super capacitor	About 112 hours(typical)	
External battery (Optional)	About 200 days (typical)	
General Features		
Timers total 1ms 10ms 100ms	256 4 16 236	
Counters total	256(back up by super capacitor)	
Internal memory bits	256(back up by super capacitor)	
Stored permanently on power down	112	
Time Interrupts	2 with 1ms resolution	
Edge Interrupts	4 rising edges and/ or 4 falling edges	
Analog adjustment	2 with 8 resolution	
Boolean execution speed	0.15μs	
Float execution speed	8μs	
Clock	embedded	
Integrated Communication Function		
Communication Interface	2 communication ports， PORT0:PPI port， RS485； FPORT0:freeport， RS485 PWL	

PPI baud rates	9.6, 19.2 and 187.5k	
Freeport baud rates	1.2kbaud to 115.2k	
Maximum cable length per segment Isolated repeater applied Isolated repeater unapplied	When it is 1000 m, baud rate is 187.5k; when it is 1200 m, 38.4k. 50 m	
Maximum number of stations	32 stations per segment,126 stations per network	
Maximum number of masters	32	
Point to point (PPI Master Mode)	Yes(NWTR/NETW), 8 total, 2 reserved	
I/O Features		
Number of integrated digital inputs	14	
Input type	Sink/Source	
Number of integrated digital outputs	10	
Output type	Solid—MOSFET	Relay dry contact
Digital I/O mapping domain	256(128 inputs/128 outputs)	
Analog I/O mapping domain	64(32 inputs /32 outputs)	
Maximum number of expandable I/O modules	7	
Maximum number of digital I/O	230	
Maximum number of analog I/O	56AI / 28AO	
Pulse catch inputs	14	
High-speed counters Total Uniphase counters Bi-phase counters	2（HSC0 and HSC1） 2×30KHz 2×20KHz	
Digital Input Features		
Number of integrated digital input		14
Input type		Sink/ Source (IEC Type 1/Source)
Rated voltage		24V DC
Maximum continuous permissible voltage		30V DC

Logical 1 Signal (minimum) Logical 0 Signal (Maximum)		18 VDC, 2.5mA 5 VDC, 1mA		
Isolation(field side to logical circuit) Optical isolation(Galvanic) Isolation groups		Yes 500V AC, 1 minute refer to the Terminal Identification		
Simultaneous inputs		14		
Maximum cable length Shielded Unshielded		500 M(standard input) 50 M(high-speed counters input) 300 M(standard input)		
Digital Output Features				
Number of integrated digital output	10			
Output type	Solid——MOSFET	Relay dry contact		
Rated voltage	24VDC	--		
Maximum rated current of each point Surge current (Max)	0.75A 8A, 100ms	2A 5A, contacts closed		
Lamp load (Max)	5W	30WDC/200WAC		
On- state resistance	0.3 ohm typical (Max :0.6 ohm)	0.2 ohm		
Delay (Max) off to on on to off	2us(Q0.0, Q0.1), 15us(others) 10us(Q0.0, Q0.1), 130us(others)	30ms（Max）		
High-speed Pulse Output	2 Axis ×50KHz Can run instructions of motion control CPU like PTP/ Speed_ctrl etc.; do not support PTO/PWM instructions in the programming software.	--		
Switching frequency(Max)	--	1HZ		
Mechanical life cycle	--	10 million times (Zero Load）		
Contact endurance	--	0.1 million times （Rated Load）		
Simultaneous output	10			
Parallel output	Only when the outputs are in the same group			
Maximum cable length Shielded Unshielded	500M(Standard Input) 150M(Standard Input)			

Available accessories ：

1. RS485 Program Cable, Order No：CTS7 191-RS485）
2. Battery (Order NO.：CTS7 291-8BA33）
3. Memory Card（Order No.：CTS7 291-MC064/ CTS7 291-MC256）
4. Programming Card（Order No.：CTS7 291-PC001）
5.Bus Extension Line（Order No.：CTS7 291-BC001）
6. Encoder (differential input signal（Order No.：CTS7 291-EC001）

Šema povezivanja:

Connector	Pin	PORT0（RS485） Port in white	FPORT0（RS485） Port in black
	1	Shell Grounded	Shell Grounded
	2	24V Grounded	24V Grounded ,
	3	RS-485Siganl B	RS-485 Signal B
	4	NC	NC
	5	Logical	Logical
	6	+5 V、100Ωseries resistance	+5 V、100Ωseries resistance
	7	+24V	+24V
	8	RS-485 Signal A	RS-485 Signal A
	9	NC	NC
	Shell	Grounded	Grounded

Corresponding relation between particular IO output of motion control function and ordinary IO output

Ordinary IO	Q0.0	Q0.1	Q0.2	Q0.3	Q0.4	Q0.5	Q0.6	Q0.7	Q1.0	Q1.1
Motion Control IO	Pulse_0	Pulse_1	Dir_0	Dir_1	Q0.4	Q0.5	Q0.6	Q0.7	Q1.0	Q1.1

Remark：

1、 .Pulse_0 --------0 axis pulse output；

Pulse_1-------1 axis pulse output ；

Dir_0--------0 axis pulse output；

Dir_1 -------1axis pulse output；

2. Q0.0 and Q0.1 do not support PTO and PWM high-speed pulse output in programming soft ware; only support motion control instruction of TrustPLC without interpolation function.