

Power supply specifications

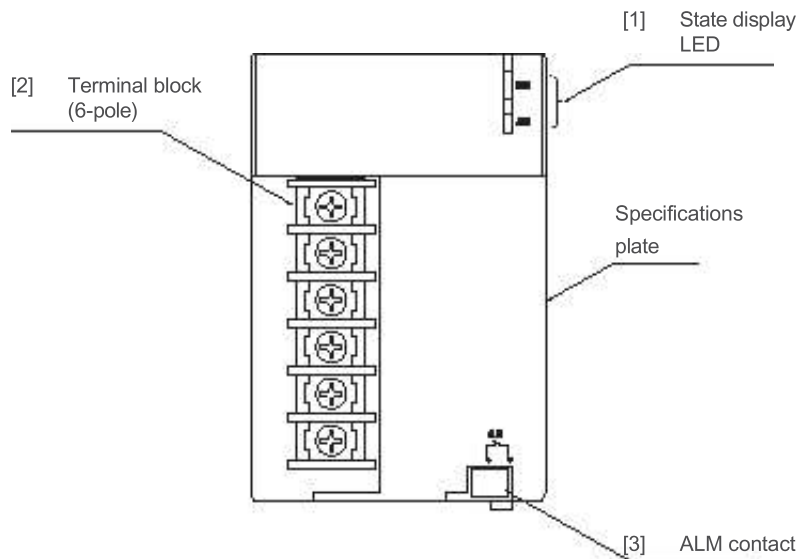
3-2 Power Supply Module Specifications

3-2-1 Power supply specifications

Item	Specifications		Remarks
Model	TD1S-22	TD1S-42	
Rated input voltage (Allowable range of input voltage)	AC 100/240 V (AC 85 - 132 V) (AC 170 - 264 V)	DC 24 V (DC 19.2 - 30 V)	
Rated frequency	50/60 Hz	-	
Allowable range of frequency	47 - 63 Hz	-	
Allowable instantaneous blackout time	1 cycle or less ^{Note)}	10 ms or less	Note that the interval of instantaneous blackout is 1 second or more.
Waveform distortion ratio	5% or less	-	
Allowable ripple ratio	-	Three-phase full-wave rectified waveform 5% or less	
Leakage current	0.25 mA or less		Between the input terminals collected together and the FG IEC 950 Class II equipment
Rush current	22.5 A _{O-P} or less (Ta = 25°C non-repetition)	150 A _{O-P} or less 2 ms or less	
Power consumption	110 VA or less	45 W or less	Rated input voltage Maximum load
Rated output voltage (Fluctuation range of output voltage)	DC 24 V (DC 22.8 - 26.4 V)		TD1S-22, TD1S-42 are capable of being used in parallel.
Output current	0.01 - 1.46 A		
Insulation method	Insulation by means of a transformer		
Dielectric strength	AC 2900 Vrms for 1 second Between the power supply input terminal collected together and the grounding	AC 560 V for 1 minute Between the power supply input terminal collected together and the grounding	
Insulation resistance	10 MΩ or more when measured with DC 500 V insulation resistance tester		
Number of occupying slots	2 slots		
Alarm output	Existent (monitoring of output voltage DC 24 V, 0.3 A or less)		Relay normally closed contact (b-contact) output
Weight	Approx. 330 g	Approx. 360 g	

^{Note)} The indicated value is the one when the voltage is goes down from the rated voltage to 0 V, the phase is the full phase, and the load is within the range of rated values.

3-2-2 Name of each part and its function



Note) The above illustration shows the state of the terminal cover having been removed for the purpose of explanations.

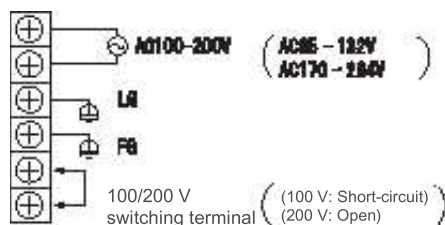
[1] State display LED

Symbol	Display color	Lighting conditions
PWR	Green	Lights on when the output voltage is within the range of rated values. Lights off when it is outside the range of rated values.
ALM	Red	Lights on when the output voltage is outside the range of rated values.

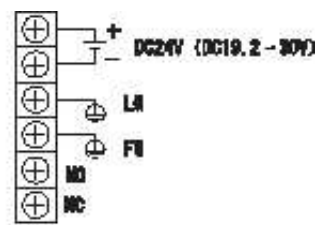
[2] Terminal block (6-pole)

It is a terminal block of M4 × 6-pole. Allocation of terminals is as follows.
(Tightening torque: 1.2 N·m, Applicable wire size: 2 mm²)

< TD1S-22 (AC power supply product) >



< TD1S-42 (DC power supply product) >



[3] ALM contact

The ALM contact is a normally closed contact (b-contact), which is OFF (the contact is open) when the power supply module is in the state of normal operation (the output voltage is within the range of 19.2 - 26.4 V), and is otherwise ON (the contact is closed). The rated voltage is DC 24 V and rated current is 0.3 A.