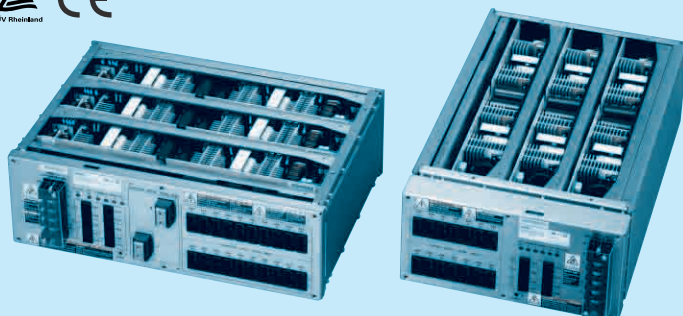


SCHA 10000T/SCDA 10000T

SC H A 10000 T -48 -□

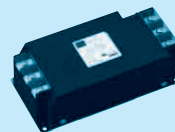
① ② ③ ④ ⑤ ⑥ ⑦



SCHA10000T

SCDA10000T

Recommended EMI/EMC
Filter TAC-50-223



- ① Series name
- ② External form
H:Wide front interface
D:Compact front interface
- ③ Single output
- ④ Output wattage
- ⑤ Three-phase input
- ⑥ Output voltage
- ⑦ Optional

SPECIFICATIONS

	MODEL	SCHA10000T-48	SCDA10000T-48
INPUT	VOLTAGE[V]	AC160 - 264 3 φ	
	CURRENT[A]	ACIN200V	35typ
	FREQUENCY[Hz]	50/60 (47 - 63)	
	EFFICIENCY[%]	ACIN200-240V	90typ
	POWER FACTOR	ACIN200-240V	0.99typ (Io=100%)
	INRUSH CURRENT[A]	ACIN240V *1	60typ / 80typ (Primary inrush current /Secondary inrush current) (More than 3 sec. to re-start)
	LEAKAGE CURRENT[mA]	5.0max (ACIN 240V 60Hz, Io=0 - 100%, According to IEC60950-1)	
OUTPUT	VOLTAGE[V]	48	
	CURRENT[A]	208	
	WATTAGE[W]	9,984	
	LINE REGULATION[mV]	192max	
	LOAD REGULATION[mV]	720max	
	RIPPLE[mVp-p]	0 to +50℃ *2	150max
	RIPPLE NOISE[mVp-p]	0 to +50℃ *2	200max (BW:500MHz)
	TEMPERATURE REGULATION[mV]	0 to +50℃	240max
	DRIFT[mV]	*3	192max
	START-UP TIME[ms]	*6	750max (ACIN 200V, Io=100%)
	HOLD-UP TIME[ms]	20typ (ACIN200V, Io=100%)	
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Activate over 105% - 120% of rated current and recovers automatically. (Shut down if low-voltage protection activated)	
	OVERVOLTAGE PROTECTION[V]	*4	56.0 - 59.0 (shut down)
	LOW-VOLTAGE PROTECTION[V]	*4	28.8 - 33.6 (shut down)
	OPERATING INDICATION	LED : Green (48VDC output), White (AC IN)	
	ALARM OUTPUT	Detecting low input voltage, detecting open phase, detecting low output voltage	
	REMOTE ON/OFF (SYSTEM ON/OFF)	Provided	
ISOLATION	(INPUT) - (OUTPUT · SYSTEM ON/OFF · REMOTE SIGNAL ON/OFF · ALARM)	AC3,000V 1minute, Cutoff current = 100mA, DC2,200V 1minute, Cutoff current = 1mA (At Room Temperature) DC500V 50MΩ min (At Room Temperature)	
	(INPUT) - (FG)	AC2,000V 1minute, Cutoff current = 100mA, DC2,200V 1minute, Cutoff current = 1mA (At Room Temperature) DC500V 50MΩ min (At Room Temperature)	
	(OUTPUT · SYSTEM ON/OFF · REMOTE SIGNAL ON/OFF · ALARM) - (FG)	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)	
	(OUTPUT) - (SYSTEM ON/OFF · REMOTE SIGNAL ON/OFF · ALARM)	AC100V 1minute, Cutoff current = 50mA, DC100V 10MΩ min (At Room Temperature)	
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	0 to +50℃, 20 - 85%RH (Non condensing), 3,000m(10,000feet) max (Refer to Cooling method)	
	STORAGE TEMP., HUMID. AND ALTITUDE	-25 to +85℃, 20 - 90%RH (Non condensing), 9,000m(30,000feet) max	
	VIBRATION	10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 30 minutes each along X, Y and Z axis	
	IMPACT	196.1m/s ² (20G), 11ms, once each along X, Y and Z axis	
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS	UL60950-1, C-UL (CSA60950-1), EN60950-1 complies	
	CONDUCTED NOISE	Complies with EN55011 Group1-A, EN55022-A, CISPR22-A, FCC part15 classA, additional EMI/EMC Filter required for meeting class B	
	HARMONIC ATTENUATOR	Complies with IEC61000-3-12	
OTHERS	CASE SIZE/WEIGHT	*5 459 X 150 X 320mm [18.07 X 5.91 X 12.6 inches] (W X H X D)/23kg max	310.5 X 150 X 510mm [12.22 X 5.91 X 20.08 inches] (W X H X D)/20kg max
	COOLING METHOD	Forced cooling (require external fan)	

*1 The current of input surge to a built-in noise filter (0.2ms or less) is excluded.

*2 Measured by 500MHz oscilloscope.

*3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃, with the input voltage held constant at the rated input/output.

*4 To recover output voltage, recycle input voltage after 3 or more seconds.

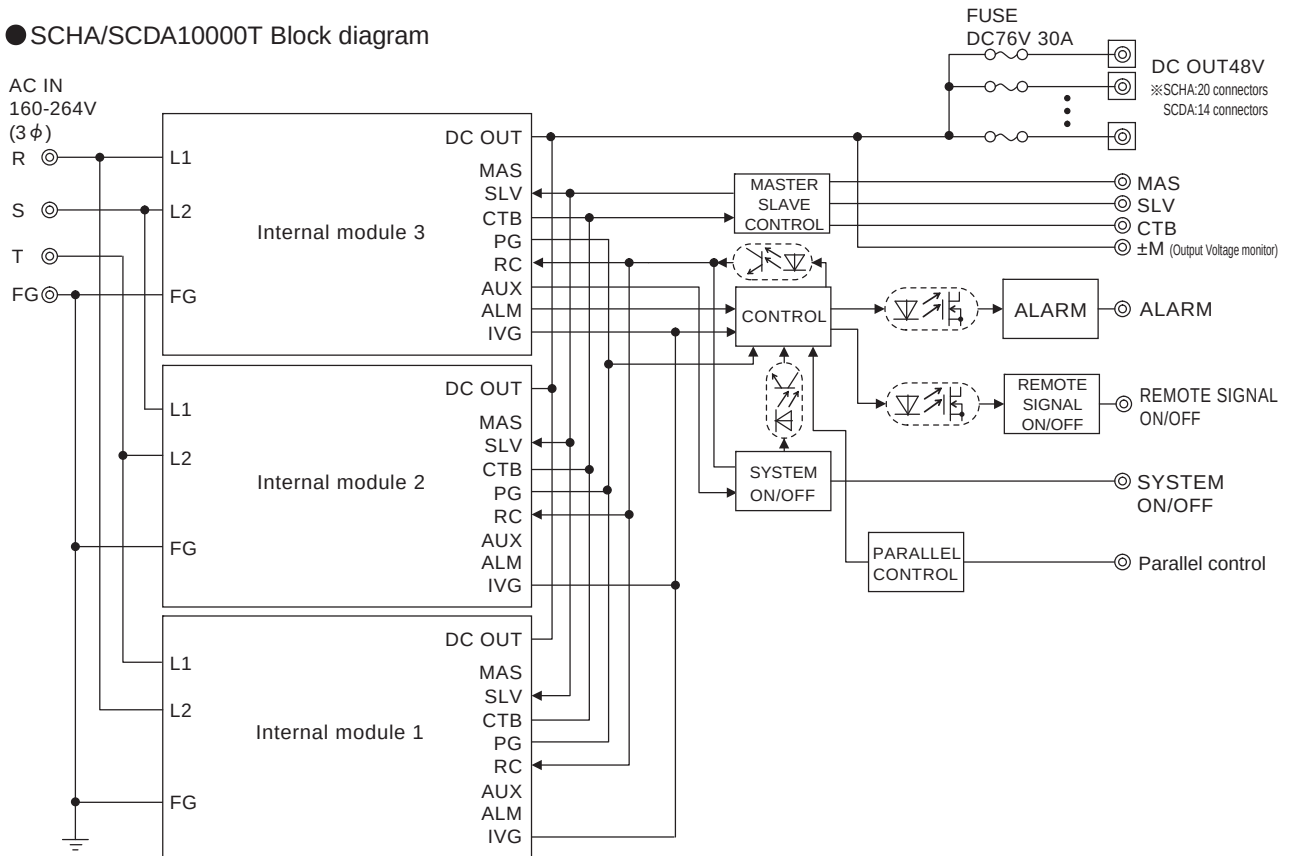
*5 Case size contains neither the terminal blocks, connector and screw nor.

*6 When input voltage recycling is needed for output recovery, AC power shall be removed and cycled after 3 seconds to reset the protection circuit.

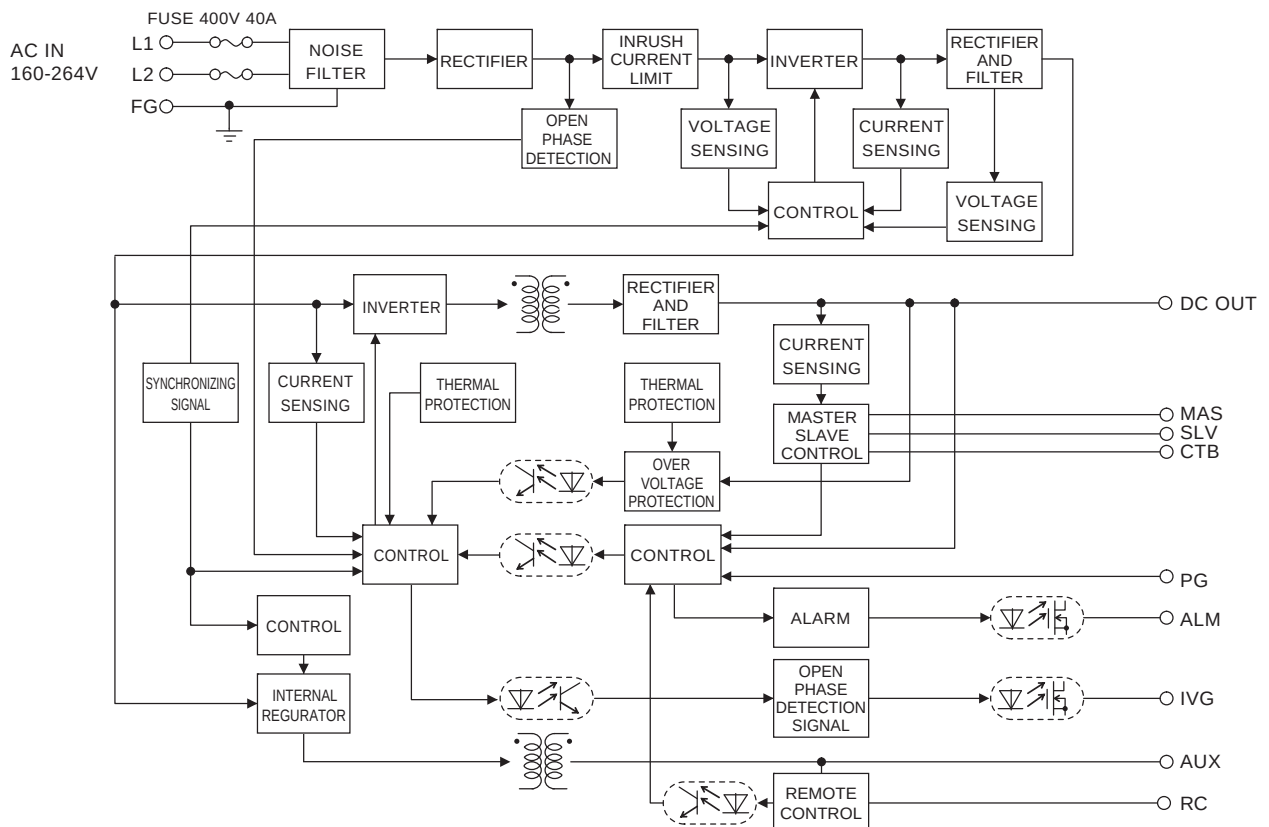
Please contact us when it's necessary to restart the power supply in less than 3 seconds.

SCHA/SCDA10000T Block diagram

● SCHA/SCDA10000T Block diagram



● Internal module Block diagram

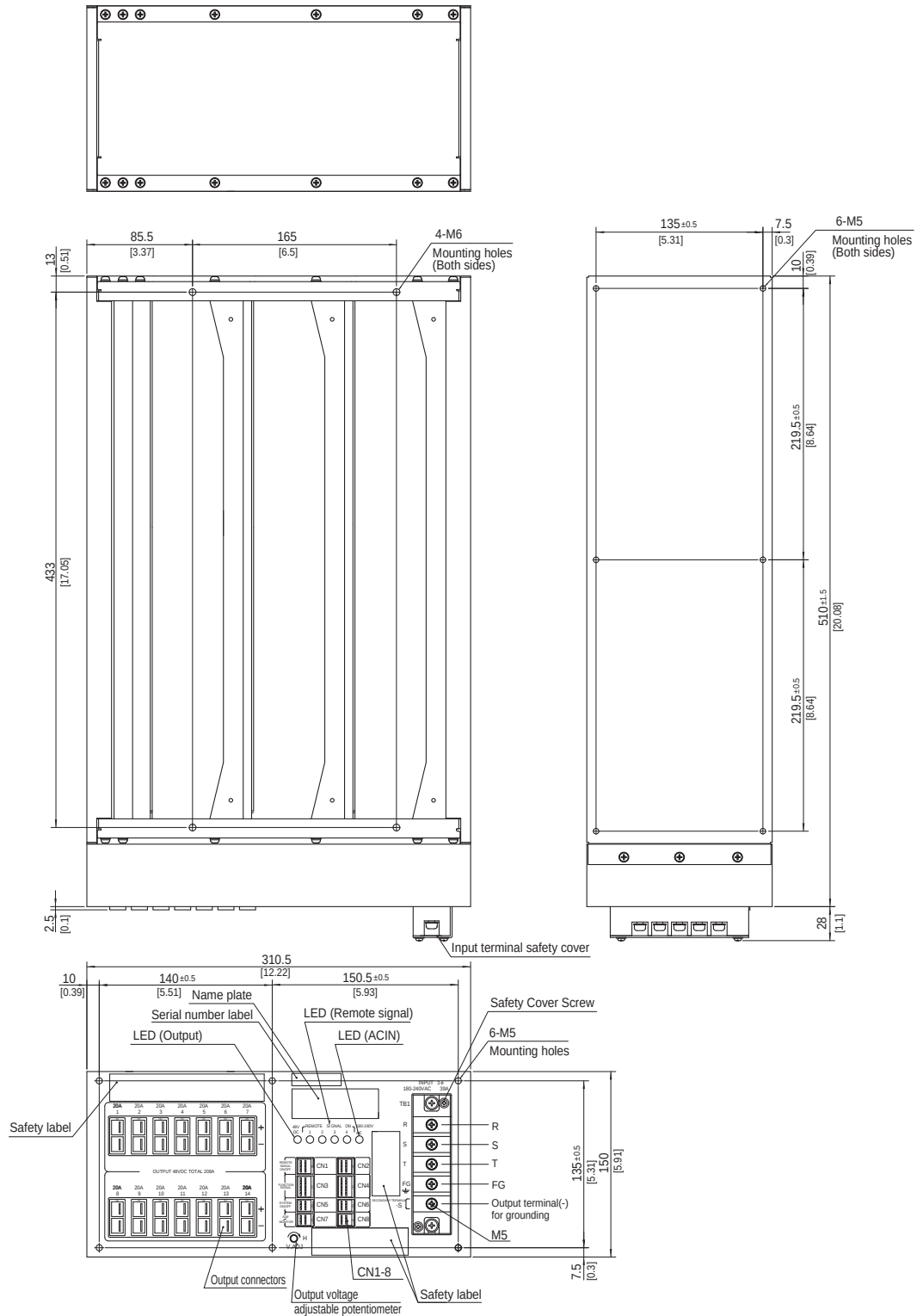


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SCDA10000T external view

SC



※ Tolerance : ± 1 [± 0.04]

※ Chassis material : Stainless steel

※ Weight : 20kg max

※ PCB Material/thickness : FR-4 / 1.6mm [0.04]

※ Dimensions in mm, []=inches

※ Screw tightening torque : M5 Mounting Hole 3.0N · m (30.7kgf · cm) max
 : M6 Mounting Hole 5.4N · m (55.2kgf · cm) max
 : M5 Input terminal 3.0N · m (30.7kgf · cm) max
 : M3 Input terminal safety cover 0.6N · m (6.2kgf · cm) max

※ LED (ACIN) : White with AC input

※ LED (Output) : Green with 48VDC output

※ LED (Remote signal) : Green (Indicates Remote signal status)

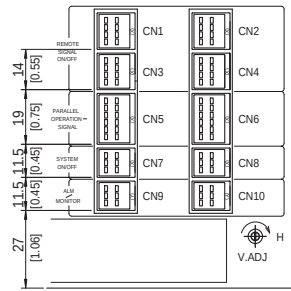
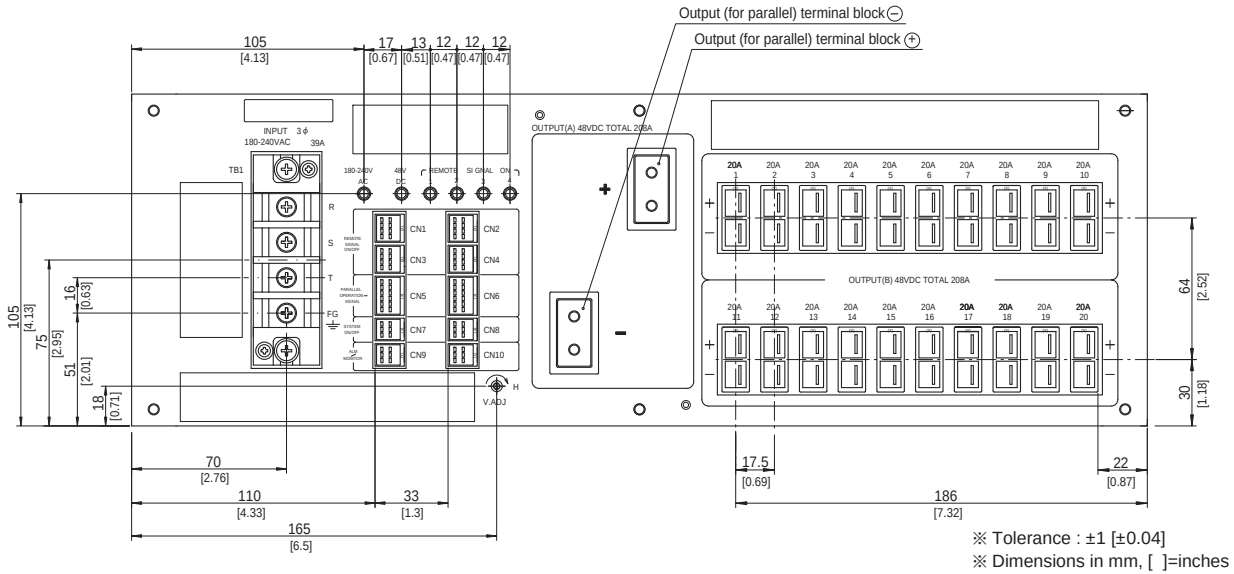
※ Output terminal(-) for grounding

· Output terminal(-) is internally connected to DC48V Output (-).

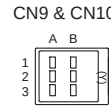
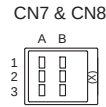
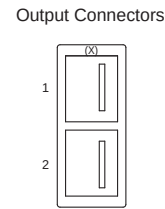
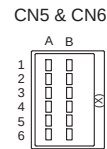
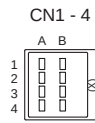
· Output terminal(-) : For grounding to stabilize secondary output by connecting to system ground (earth).

· Can not draw current through output terminal(-) for grounding.

SCHA10000T external view (front panel)



CN1-10 location dimensions



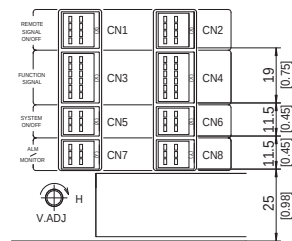
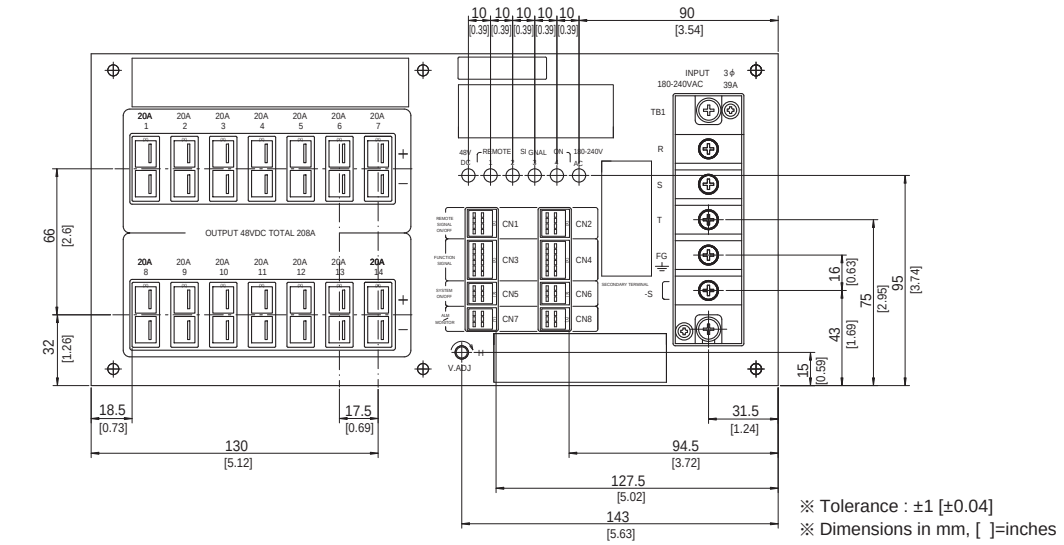
Connector pin numbers

SCHA10000T Functions & Connectors

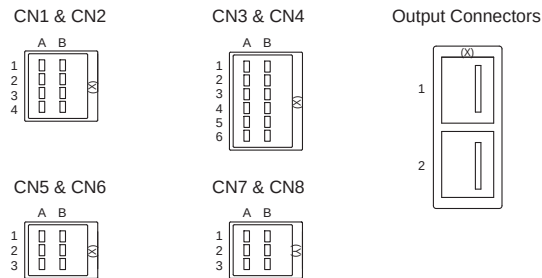
Connector	Housing	Mfr.	Pin No.	Function
Output connector	1-353080-2	1-179958-2	1	Output (+)
			2	Output (-)
CN1-CN4	1318125-1	1-1318119-4	1A	Remote signal ON/OFF 1+
			1B	Remote signal ON/OFF 1-
			2A	Remote signal ON/OFF 2+
			2B	Remote signal ON/OFF 2-
			3A	Remote signal ON/OFF 3+
			3B	Remote signal ON/OFF 3-
			4A	Remote signal ON/OFF 4+
			4B	Remote signal ON/OFF 4-
CN5 & CN6	1318126-1	1-1318118-6	1A,1B	MAS: Master
			2A,2B	SLV: Slave
			3A,3B	CTB: Current balance
			4A,4B	PCNT: Parallel control
			5A,5B	COM:GND
			6A,6B	N.C.
CN7 & CN8	1318124-1	1-1318119-3	1A,1B	System ON/OFF +
			3A,3B	System ON/OFF -
			2A,2B	N.C.
CN9 & CN10	1318124-2	2-1318119-3	1A,1B	Alarm +
			3A,3B	Alarm -
			2A	+M: Output voltage monitor+
			2B	-M: Output voltage monitor-

SCDA10000T external view (front panel)

SC



CN1-8 location dimensions



Connector pin numbers

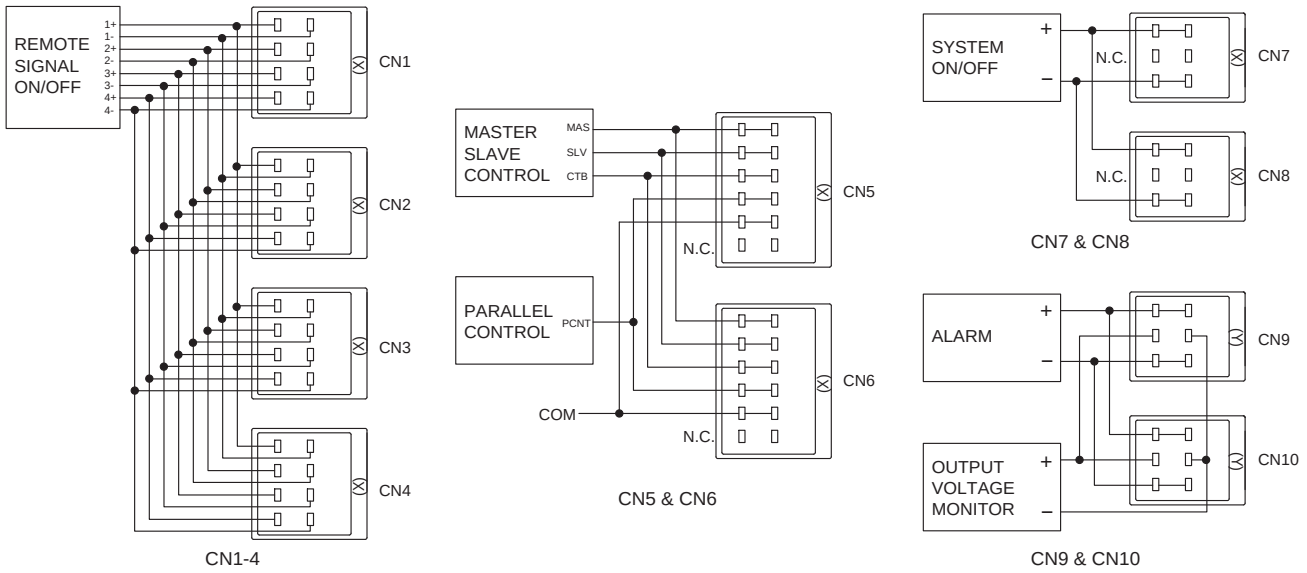
SCDA10000T Functions & Connectors

Connector	Housing	Mfr.	Pin No.	Function
Output connector	1-353080-2	1-179958-2	Tyco Electronics AMP	1 Output (+) 2 Output (-)
CN1 & CN2	1318125-1	1-1318119-4	Tyco Electronics AMP	1A Remote signal ON/OFF 1+ 1B Remote signal ON/OFF 1- 2A Remote signal ON/OFF 2+ 2B Remote signal ON/OFF 2- 3A Remote signal ON/OFF 3+ 3B Remote signal ON/OFF 3- 4A Remote signal ON/OFF 4+ 4B Remote signal ON/OFF 4-
CN3 & CN4	1318126-1	1-1318118-6	Tyco Electronics AMP	1A,1B MAS: Master 2A,2B SLV: Slave 3A,3B CTB: Current balance 4A,4B PCNT: Parallel control 5A,5B COM:GND 6A,6B N.C.
CN5 & CN6	1318124-1	1-1318119-3	Tyco Electronics AMP	1A,1B System ON/OFF + 3A,3B System ON/OFF - 2A,2B N.C.
CN7 & CN8	1318124-2	2-1318119-3	Tyco Electronics AMP	1A,1B Alarm + 3A,3B Alarm - 2A +M: Output voltage monitor+ 2B -M: Output voltage monitor-

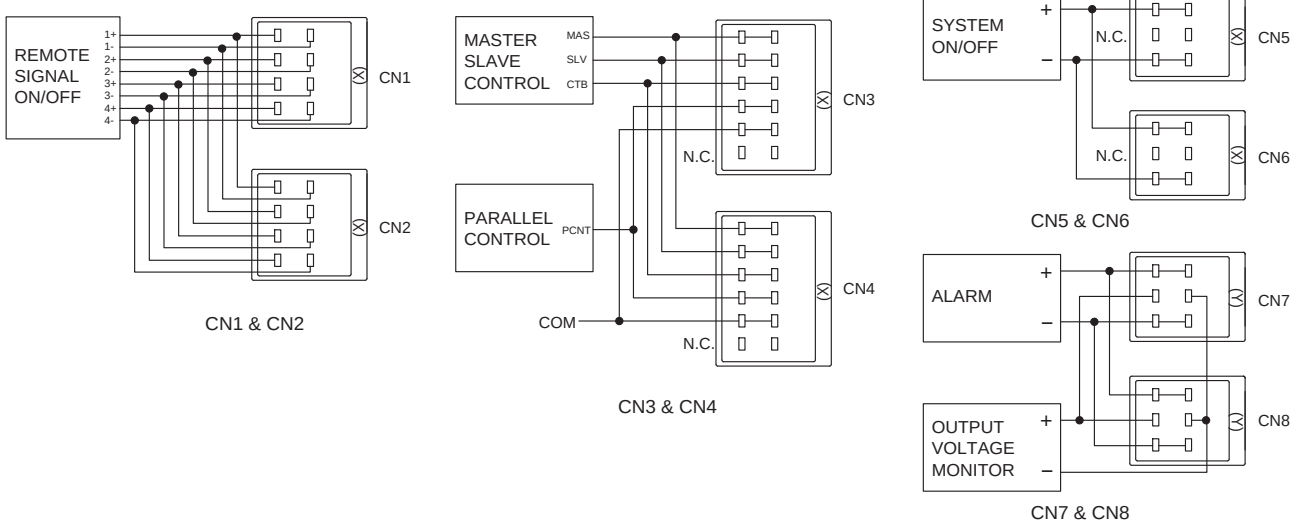
Connection diagram of function connectors

SC

● SCHA10000T



● SCDA10000T



Basic characteristics data

Model	Circuit method	Switching frequency [kHz]	Input current [A]	Rated input fuse	Inrush current protection circuit	PCB/Pattern		
						Material	Single sided	Double sided
SCHA 10000T	Active filter	65	35	400V 40A	SCR	FR-4		Double and Multi
	Forward converter	130						
SCDA 10000T	Active filter	65	35	400V 40A	SCR	FR-4		Double and Multi
	Forward converter	130						

* The value of input current is at ACIN 200V 3 φ and rated load.

Mouser Electronics

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Cosel:

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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