A.18 CPU 216 AC Power Supply, DC Inputs, Relay Outputs

Order Number: 6ES7 216-2BD00-0XB0

General Features	
Physical size (L x W x D)	217.3 x 80 x 62 mm (8.56 x 3.15 x 2.44 in.)
Weight	0.6 kg (1.3 lbs.)
Power dissipation	9 W
User program size/storage	4 Kwords/EEPROM
User data size/storage	2.5 Kwords/RAM
Data and TOD retention Supercap Optional battery	 190 hr typ. (120 hr min. at 40°C) 200 days continuous usage
Local I/O[1]	24 inputs/16 outputs
Max. I/O expansion modules	7
Digital I/O supported	64 inputs/64 outputs
Analog I/O supported	16 inputs/16 outputs
Boolean execution speed	0.8 µs/instruction
Internal memory bits	256
Timers	256 timers
Counters	256 counters
High-speed counters	1 software (2 KHz max.) 2 hardware (20 KHz max. ea.)
TOD clock tolerance	6 minutes per month
Pulse outputs	Not recommended
Analog adjustments	2
Standards compliance	UL 508 CSA C22.2 142 FM Class I, Division 2 VDE 0160 compliant CE compliant

Input Points	
Input type	Sink/Source IEC Type 1131 in sink mode
ON state range	15 to 30 VDC, 4 mA minimum 35 VDC, 500 ms surge
ON state nominal	24 VDC, 7 mA
OFF state maximum	5 VDC, 1 mA
Maximum response time I0.0 to I1.5 I0.6 to I1.5 as used by HSC1 and HSC2 I1.6 to I2.7	 0.2 ms to 8.7 ms selectable 0.2 ms default 6 µs ON, 30 µs OFF 4 ms maximum
Optical isolation	500 VAC, 1 min

Output Points	
Output type	Relay, dry contact
Voltage range	5 to 30 VDC/250 VAC
Maximum load current	2 A/point, 10 A/common
Overcurrent surge	7 A with contacts closed
Isolation resistance	100 MΩ minimum (new)
Switching delay	10 ms maximum
Lifetime	10,000,000 mechanical 100,000 with rated load
Contact resistance	200 mΩ maximum (new)
Isolation Coil to contact Contact to contact (Between open contacts)	 1500 VAC, 1 min 750 VAC, 1 min
Short circuit protection	None

Power Supply	
Voltage/frequency range	85 to 264 VAC at 47 to 63 Hz
Input current	6 VA typical, CPU only 50 VA max. load
Holdup time	20 ms min. from 110 VAC
Inrush current	20 A peak at 264 VAC
Fusing (non-replaceable)	2 A, 250 V, Slow Blow
5 VDC current	1000 mA for expansion I/O
Isolated	Yes. Transformer, 1500 VAC, 1 min

DC Sensor Supply	
Voltage range	19.2 VDC to 28.8 VDC
Ripple/noise (<10MHz)	1 V peak-to-peak maximum
24 VDC available current	400 mA
Short circuit current limit	< 600 mA
Isolated	No

1 The CPU reserves 24 process-image input and 16 process-image output register points for local I/O.

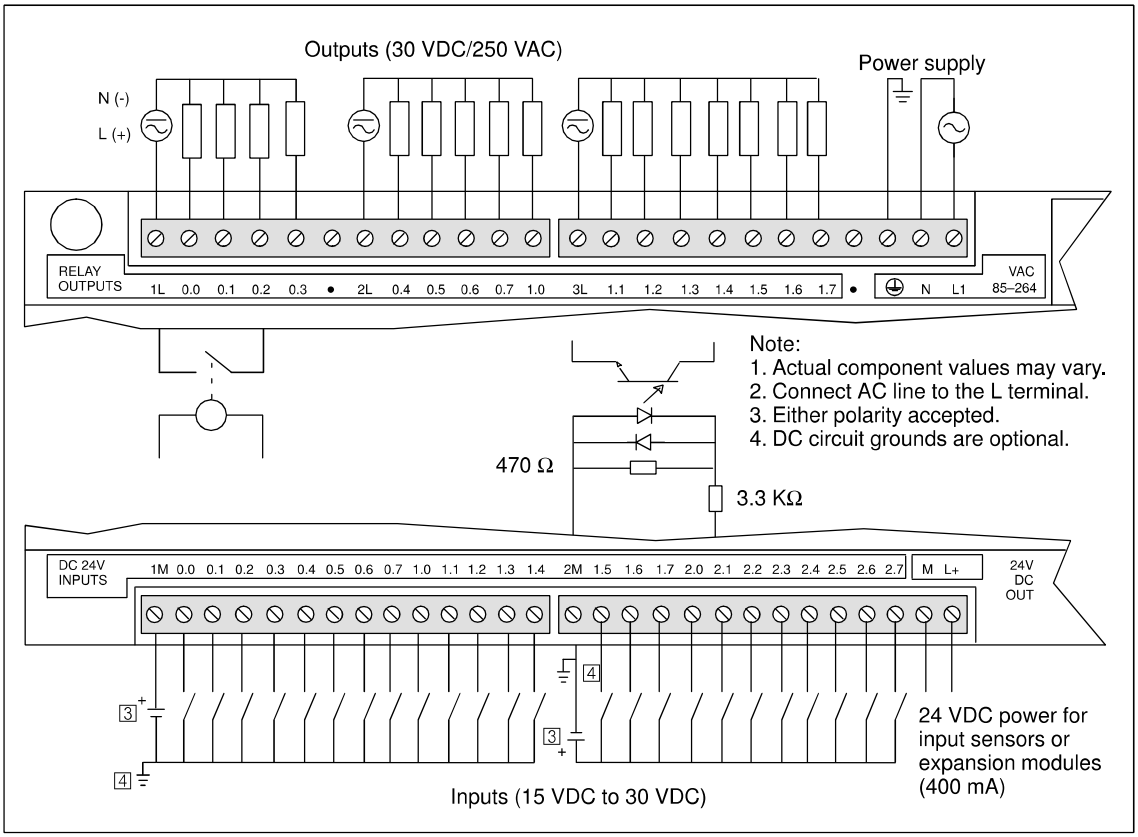

Figure A-18 Connector Terminal Identification for CPU 216 AC/DC/Relay