

A.32 Expansion Module EM223 Digital Combination

16 x 24 VDC Input/16 x Relay Output

Order Number: 6ES7 223-1PL00-0XA0

General Features		Input Points	
Physical size (L x W x D)	160 x 80 x 62 mm (6.30 x 3.15 x 2.44 in.)	Input type	Sink/Source IEC 1131 Type 1 in sink mode
Weight	0.45 kg (1.0 lbs.)	ON state range	15 to 30 VDC, 4 mA minimum 35 VDC, 500 ms surge
Power dissipation	7 W	ON state nominal	24 VDC, 7 mA
Points ¹	16 Digital inputs 16 Digital relay outputs	OFF state maximum	5 VDC, 1 mA
Standards compliance	UL 508 CSA C22.2 142 FM Class I, Division 2 VDE 0160 compliant CE compliant	Response time	3.5 ms typical/4.5 ms maximum
Output Points		Optical isolation	500 VAC, 1 minute
Output type	Relay, dry contact	Current Requirements	
Voltage range	5 to 30 VDC/250 VAC	5 VDC logic current	160 mA from base unit
Maximum load current	2 A/point, 8 A/common	24 VDC sensor current	120 mA from base unit or external power supply
Isolation resistance	100 M Ω maximum (new)	24 VDC coil current ²	130 mA from base unit or external power supply
Switching delay	10 ms maximum	Output point current	Supplied by user at module common
Lifetime	10,000,000 Mechanical 100,000 with rated load		
Contact resistance	200 m Ω maximum (new)		
Isolation			
Coil to contact	1500 VAC, 1 min		
Contact to contact (between open contacts)	750 VAC, 1 min		
Short circuit protection	None		

¹ The CPU reserves 16 process-image input and 16 process-image output register points for this module.

² Coil power must connect to common sensor supply M on the CPU.

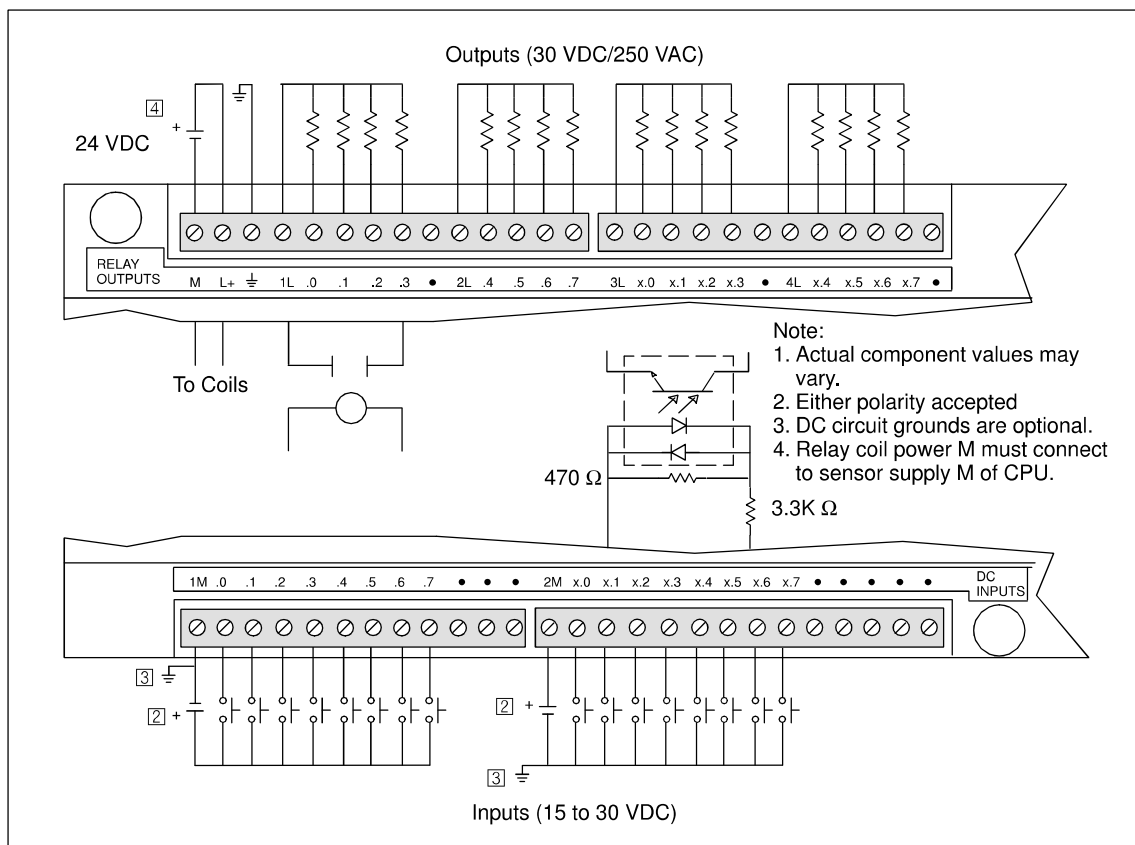


Figure A-32 Connector Terminal Identification for
EM223 Digital Combination 16 x 24 VDC Input/16 x Relay Output