## SEL-487B-1

Busbar Differential, Overcurrent and Breaker Failure Protection Relay, Standard with Serial Communication Protocols<sup>(1)</sup>, 8 Outputs, 7 Inputs<sup>(2)</sup>, AcSELERATOR QuickSet<sup>®</sup> SEL-5030 Software<sup>(3)</sup>, and Configurable Labels

Standard	Part Number:	0	4	8	7	В	1					2	X			X						X
Conformally Coated Circuit Boards*	Firmware																					
None	Standard						1															
Conformally Coated Circuit Boards*   2	Conformal Coat																					
Power Supply 24-48 Vdc 48-125 Vdc or 110-120 Vac 125-250 Vdc or 110-240 Vac 6 6 125-250 Vdc or 110-240 Vac 125-250 Vdc or 110-240 Vdc 125-250 Vdc or 110-240 Vd	None							Χ														
24-48 Vdc 48-125 Vdc or 110-120 Vac 125-250 Vdc or 110-240 Vac 6 Connector Type Screw Terminal Block Connectorized* Relay <sup>(10)*</sup> 2 Secondary Inputs 1 A Phase 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Conformally Coated Circuit Boards*							2														
24-48 Vdc 48-125 Vdc or 110-120 Vac 125-250 Vdc or 110-240 Vac 6 Connector Type Screw Terminal Block Connectorized* Relay <sup>(10)*</sup> 2 Secondary Inputs 1 A Phase 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Power Supply																					
Connector Type  Screw Terminal Block Connectorized® Relay <sup>(10)**</sup> Secondary Inputs 1 A Phase 5 A Phase 5 A Phase 6 AC Input Channels 3 AC Voltage, 21 AC Current  Ethernet Communications Protocols None FTP, Telnet, and DNP3 LAN/WAN* FTP, Telnet, DNP3 LAN/WAN, and IEC 61850*  Ethernet Connection Options None Ports SA, 58 <sup>(4)</sup> With PTP: Ethernet Card With Two 10/100BASE-T Connectors* Ports SA, 58 <sup>(4)</sup> With PTP: Ethernet Card With Two 10/100BASE-T, One 100BASE-FX Connector* Ports SC, 50 <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T, One 100BASE-FX Connector* Ports SC, 50 <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T Connectors* Ports SC, 50 <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T, One 100BASE-FX Connector* Ports SC, 50 <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T, One 100BASE-FX Connectors* Ports SC, 50 <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T, One 100BASE-FX Connectors* Ports SC, 50 <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T, One 100BASE-FX Connectors* Ports SC, 50 <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T, One 100BASE-FX Connectors* Ports SC, 50 <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T, One 100BASE-FX Connectors* Ports SC, 50 <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T, One 100BASE-FX Connectors* Ports SC, 50 <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T, One 100BASE-FX Connectors* Ports SC, 50 <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T, One 100BASE-FX Connectors* Ports SC, 50 <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T, One 100BASE-FX Connectors* Ports SC, 50 <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T, One 100BASE-FX Connectors* Ports SC, 50 <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T, One 100BASE-TX Connectors* Ports SC, 50 <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-TX Connectors* Ports SC, 50 <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-TX Connectors* Ports SC, 50 <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-TX Connectors* Ports SC, 50 <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-TX Connectors* Ports SC, 50 <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-TX Connectors* Ports SC, 50 <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-TX Connectors*									2													
Connector Type  Screw Terminal Block  Connectorized® Relay(10)*  Secondary Inputs  1 A Phase  5 A Phase  5 A Phase  AC Input Channels  3 AC Voltage, 21 AC Current  Ethernet Communications Protocols  None  FTP, Telnet, and DNP3 LAN/WAN*  FTP, Telnet, DNP3 LAN/WAN, and IEC 61850*  C C  Ethernet Connection Options  None  Ports SA, 58(4) With PTP: Ethernet Card With Two 10/100BASE-T Connectors*  Ports SA, 58(4) With PTP: Ethernet Card With Two 10/100BASE-T, One 100BASE-FX  Connector*  Ports SA, 59(5) Ethernet Card With Two 10/100BASE-T, One 100BASE-FX  Connector*  Ports SC, 50(5): Ethernet Card With Two 10/100BASE-T Connectors*  Ports SC, 50(5): Ethernet Card With Two 10/100BASE-T Connectors*  Ports SC, 50(5): Ethernet Card With Two 10/100BASE-T Connectors*  Ports SC, 50(5): Ethernet Card With Two 10/100BASE-T Connectors*  Ports SC, 50(5): Ethernet Card With Two 10/100BASE-T Connectors*  Ports SC, 50(5): Ethernet Card With Two 10/100BASE-T Connectors*  Ports SC, 50(5): Ethernet Card With Two 10/100BASE-T Connectors*  Ports SC, 50(5): Ethernet Card With Two 10/100BASE-T Connectors*  Ports SC, 50(5): Ethernet Card With Two 10/100BASE-T Connectors*  Ports SC, 50(5): Ethernet Card With Two 10/100BASE-T Connectors*  Ports SC, 50(5): Ethernet Card With Two 10/100BASE-T Connectors*  Ports SC, 50(5): Ethernet Card With Two 10/100BASE-T Connectors*  Ports SC, 50(5): Ethernet Card With Two 10/100BASE-T Connectors*  Ports SC, 50(5): Ethernet Card With Two 10/100BASE-T Connectors*  Ports SC, 50(5): Ethernet Card With Two 10/100BASE-T Connectors*  Ports SC, 50(5): Ethernet Card With Two 10/100BASE-T Connectors*  Ports SC, 50(5): Ethernet Card With Two 10/100BASE-T Connectors*  Ports SC, 50(5): Ethernet Card With Two 10/100BASE-T Connectors*  Ports SC, 50(5): Ethernet Card With Two 10/100BASE-T Connectors*  Ports SC, 50(5): Ethernet Card With Two 10/100BASE-T Connectors*  Ports SC, 50(5): Ethernet Card With Two 10/100BASE-T Connectors*  Ports SC, 50(5): Ethernet Card With Two 10/100BASE-T Connectors*	48-125 Vdc or 110-120 Vac								4													
Screw Terminal Block	125-250 Vdc or 110-240 Vac								6													
Screw Terminal Block	Connector Type																					
Secondary Inputs										Χ												
1 A Phase 5 A Phase  AC Input Channels 3 AC Voltage, 21 AC Current  Ethernet Communications Protocols None FTP, Telnet, and DNP3 LAN/WAN* FTP, Telnet, DNP3 LAN/WAN, and IEC 61850*  Ethernet Connection Options None Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With Two 10/100BASE-T Connectors* Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With Two 10/100BASE-FX Connectors* Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With Two 100BASE-FX Connectors* Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T. One 100BASE-FX Connector* Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T Connectors* Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 100BASE-FX Connectors* Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 100BASE-T Connectors* Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 100BASE-T Connectors* Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connector*  Mainboard Input Voltage <sup>(2)</sup> 24 Vdc 48 Vdc	Connectorized® Relay <sup>(10)</sup> *									2								I		I	I	
1 A Phase 5 A Phase  AC Input Channels 3 AC Voltage, 21 AC Current  Ethernet Communications Protocols None FTP, Telnet, and DNP3 LAN/WAN* FTP, Telnet, DNP3 LAN/WAN, and IEC 61850*  Ethernet Connection Options None Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With Two 10/100BASE-T Connectors* Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With Two 10/100BASE-FX Connectors* Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With Two 100BASE-FX Connectors* Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T. One 100BASE-FX Connector* Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T Connectors* Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 100BASE-FX Connectors* Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 100BASE-T Connectors* Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 100BASE-T Connectors* Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connector*  Mainboard Input Voltage <sup>(2)</sup> 24 Vdc 48 Vdc	Secondary Inputs																					
AC Input Channels  3 AC Voltage, 21 AC Current  Ethernet Communications Protocols  None  FTP, Telnet, and DNP3 LAN/WAN*  FTP, Telnet, DNP3 LAN/WAN, and IEC 61850*  Ethernet Connection Options  None  Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With Two 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T, One 100BASE-TX  Connector*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*											1											
Ethernet Communications Protocols  None  FTP, Telnet, and DNP3 LAN/WAN* FTP, Telnet, DNP3 LAN/WAN, and IEC 61850*  Ethernet Connection Options  None  Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With Two 10/100BASE-T, One 100BASE-FX  Connector*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*	5 A Phase										5								I			
Ethernet Communications Protocols  None  FTP, Telnet, and DNP3 LAN/WAN* FTP, Telnet, DNP3 LAN/WAN, and IEC 61850*  Ethernet Connection Options  None  Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With Two 10/100BASE-T, One 100BASE-FX  Connector*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Ports 5C, D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*	AC Input Channels																					
None												2										
FTP, Telnet, and DNP3 LAN/WAN*  FTP, Telnet, DNP3 LAN/WAN, and IEC 61850*  Ethernet Connection Options  None  Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With Two 100BASE-T Connectors*  Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With One 10/100BASE-T, One 100BASE-FX  Connector*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 100BASE-TX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 100BASE-TX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 100BASE-TX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Borts 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Borts 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Borts 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Borts 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Borts 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Borts 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Borts 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*  Borts 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-TX Connectors*	<b>Ethernet Communications Protocols</b>	;																				
Ethernet Connection Options  None  Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With Two 100BASE-FX Connectors*  Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With One 10/100BASE-T, One 100BASE-FX  Connector*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connector*  Mainboard Input Voltage <sup>(2)</sup> 24 Vdc  B 48 Vdc	None													Χ	Χ							
Ethernet Connection Options  None  Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With Two 100BASE-FX Connectors*  Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connector*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connector*  Mainboard Input Voltage <sup>(2)</sup> 24 Vdc  48 Vdc	FTP, Telnet, and DNP3 LAN/WAN*													В								
None Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With Two 10/100BASE-T Connectors* Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With Two 100BASE-FX Connectors* Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connector* Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T Connectors* Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 100BASE-FX Connectors* Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 100BASE-FX Connectors* Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connector*  Mainboard Input Voltage <sup>(2)</sup> 24 Vdc  48 Vdc	FTP, Telnet, DNP3 LAN/WAN, and IEC 61850*													С								
Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With Two 100BASE-FX Connectors*  Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connector*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connector*  Mainboard Input Voltage <sup>(2)</sup> 24 Vdc  48 Vdc	<b>Ethernet Connection Options</b>																					
Two 10/100BASE-T Connectors*  Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With Two 100BASE-FX Connectors*  Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connector*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connector*  Mainboard Input Voltage <sup>(2)</sup> 24 Vdc  48 Vdc	None													Χ	Χ							
Two 100BASE-FX Connectors*  Ports 5A, 5B <sup>(4)</sup> With PTP: Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connector*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connector*  Mainboard Input Voltage <sup>(2)</sup> 24 Vdc  48 Vdc															1							
One 10/100BASE-T, One 100BASE-FX Connector*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connector*  Mainboard Input Voltage <sup>(2)</sup> 24 Vdc  48 Vdc															3							
Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 10/100BASE-T Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connector*  Mainboard Input Voltage <sup>(2)</sup> 24 Vdc  48 Vdc	One 10/100BASE-T, One 100BASE-FX														5							
Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two 100BASE-FX Connectors*  Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connector*  Mainboard Input Voltage <sup>(2)</sup> 24 Vdc  48 Vdc	Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two	L													0							
Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connector*  Mainboard Input Voltage <sup>(2)</sup> 24 Vdc 48 Vdc	Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With Two														2							
24 Vdc B C C C	Ports 5C, 5D <sup>(5)</sup> : Ethernet Card With One 10/100BASE-T, One 100BASE-FX Connector*														4						L	
24 Vdc B C C C	Mainboard Input Voltage <sup>(2)</sup>																					
																	В					
110 Vdc	48 Vdc																С					
	110 Vdc																D					

125 Vdc											+	_					E			_				
	₩	₩	+	+	+	+	-			⊬	÷	+	+	+	+	+			+	+	H	₩	Н	H
220 Vdc	⊬	H	+	+	#	+	_			H	÷	+	+	+	+	+	(		÷	+	<u> </u>	₩		
250 Vdc	L										_	_					ŀ	1	_					
Mounting																								
Horizontal Rack Mount																		H	ł					
Horizontal Panel Mount											I	I						3	3					
Chassis																								
7U, Front Panel with 16 Target LEDs, 8 Operator Control Pushbuttons. Up to Two Additional I/O Boards	L																		7			Χ	Χ	
7U, Front Panel with 24 Target LEDs, 12 Operator Control Pushbuttons, and Tri-Color LEDs*	E													Ι	I				8			Χ	Χ	
9U, Front Panel with 16 Target LEDs, 8 Operator Control Pushbuttons. Up to Four Additional I/O Boards	F										I								9					
9U, Front Panel with 24 Target LEDs, 12 Operator Control Pushbuttons, and Tri-Color LEDs*	E																		Δ					
I/O Board Slot B; Control Input Volt	taq	e '	for	71	U c	or 9	9L	J C	ha	359	sis													
No I/O Board		Ť	Ť	T	T	T		_		Ī	T	T	T	T	T			Т	Т	X	X	Х	Χ	
24 Vdc or Vac with High-Speed Contact	t	Ī	Ï	İ	İ	Ï				Ĺ	İ	Ï	İ	İ	İ	İ	İ	İ	İ	В		Ϊ		
Outputs <sup>(6)</sup> * 48 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *												I								С				
110 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *	E											Ι								D				
125 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *	E										I									Е				
220 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *	L																			G				
250 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *	L																			Н				
24 Vdc or Vac with Standard Contact Outputs (7)*	L																			K				
48 Vdc or Vac with Standard Contact Outputs (7)*	L																			М				
110 Vdc or Vac with Standard Contact Outputs <sup>(7)</sup> *	L																			N				
125 Vdc or Vac with Standard Contact Outputs <sup>(7)</sup> *	L																			Р				
220 Vdc or Vac with Standard Contact Outputs <sup>(7)</sup> *	L																			R				
250 Vdc or Vac with Standard Contact Outputs <sup>(7)</sup> *	L																			Т				
I/O Board Slot C; Control Input Volt	ag	e '	for	71	J o	r 9	9ι	J C	ha	155	sis				_									
No I/O Board	L														L						X	X	Χ	
24 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *	L																				В			
48 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *	L											I	I								С			
110 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *	L										Ι	Ι									D			
125 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *	L										I	I									Ε			
220 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *	Ĺ																				G			

250 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *														ŀ	<b>-</b>	
24 Vdc or Vac with Standard Contact Outputs (7)*														I	<	
48 Vdc or Vac with Standard Contact Outputs (7)*														1	4	
110 Vdc or Vac with Standard Contact Outputs <sup>(7)</sup> *														]	N.	
125 Vdc or Vac with Standard Contact Outputs <sup>(7)</sup> *															Р	
220 Vdc or Vac with Standard Contact Outputs <sup>(7)</sup> *														I	₹	
250 Vdc or Vac with Standard Contact Outputs <sup>(7)</sup> *															Γ	
I/O Board Slot D; Control Input Volt	age 1	for	9۱	J C	has	sis	s O	nly	(8)							
No I/O Board															X	X
24 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *															В	
48 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *															С	
110 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *															D	
125 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *															E	
220 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *															G	
250 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *					Ш										Н	
24 Vdc or Vac with Standard Contact Outputs (7)*															K	
48 Vdc or Vac with Standard Contact Outputs (7)*															М	
110 Vdc or Vac with Standard Contact Outputs <sup>(7)</sup> *															N	
125 Vdc or Vac with Standard Contact Outputs <sup>(7)</sup> *															Р	
220 Vdc or Vac with Standard Contact Outputs <sup>(7)</sup> *													_		R	
250 Vdc or Vac with Standard Contact Outputs <sup>(7)</sup> *															<u> </u> T	
I/O Board Slot E; Control Input Volt	age f	for	<b>9</b> U	CI	has	sis	s O	nly	(8)							
No I/O Board																X
24 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *																В
48 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *																С
110 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *																D
125 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *																E
220 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *																G
250 Vdc or Vac with High-Speed Contact Outputs <sup>(6)</sup> *																Н
24 Vdc or Vac with Standard Contact Outputs (7)*																K
48 Vdc or Vac with Standard Contact Outputs $^{(7)}*$																M

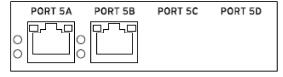
110 Vdc or Vac with Standard Contact Outputs <sup>(7)</sup> *	L											N	
125 Vdc or Vac with Standard Contact Outputs <sup>(7)</sup> *	L											Р	
220 Vdc or Vac with Standard Contact Outputs <sup>(7)</sup> *	L											R	
250 Vdc or Vac with Standard Contact Outputs <sup>(7)</sup> *	L											Т	

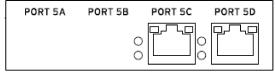
## **Accessories**

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Literature		
	Instruction Manual Set for SEL-487B-1 and SEL-400 Series <sup>(9)</sup>	PM487B-KT-01
Wiring Harness		
	Wiring Harness for Connectorized SEL- 487B <sup>(10)</sup> *	Please see Online MOT or contact SEL REP or CSR for ordering information.
IRIG Termination Kit (5	50 Ohms)*	915900499

<sup>\*</sup> Additional Cost

 $^{(4)}$  Only two Ethernet ports will be populated based on the Ethernet Connection Options Selection. IEEE Precision Time Protocol (PTP) is only available on Port 5A and 5B.





Making Electric Power Safer, More Reliable, and More Economical ®

SEL SCHWEITZER ENGINEERING LABORATORIES, INC.

2350 NE Hopkins Court - Pullman, WA 99163 USA Phone: +1.509.332.1890 - Fax: +1.509.332.7990

<sup>(1)</sup> Serial Protocols: SEL ASCII, Compressed ASCII, Settings File Transfer, SEL Fast Meter with Configuration, Fast Operate, Fast SER, Enhanced Mirrored Bits® Communications, DNP3 Level 2 Server Plus Dial-Out and Virtual Terminal.

<sup>(2)</sup> Mainboard configuration has 3 High-Current Interrupting Outputs, 2 Standard Form A Outputs, 3 Standard Form C Outputs, and 7 Optoisolated Level-Sensitive Inputs.

<sup>(3)</sup> Download AcSELERATOR QuickSet SEL-5030 software for free at https://www.selinc.com/softwaresolutions/. QuickSet on CD (503001WX4) is available upon request.

<sup>(5)</sup> PTP is not available on Ports 5C and 5D.

<sup>(6) 18</sup> Common Inputs, 6 Independent Inputs, 6 High-Speed High-Current Interrupting Form A Outputs, 2 Standard Form A Outputs.

<sup>(7) 18</sup> Common Inputs, 6 Independent Inputs, 8 Standard Form A Outputs.

<sup>(8) 7</sup>U Mounting options only support 2 I/O boards. If more than 2 I/O boards are selected, the 9U Mounting option must be used.

<sup>(9)</sup> This product comes standard with a CD manual. One complimentary instruction manual kit is available upon request with each product purchased.  $^{(10)}$  Order a Connectorized $^{(8)}$  Wiring Harness for SEL-487B (harness shipped separately).