

Transformer Protection Relay

SEL-787 Base Unit

- Vertical Chassis
- Front Panel
 - Large LCD Display
 - 4 Programmable Pushbuttons w/8 LEDs
 - 8 Target LEDs (6 Programmable)
 - Operator Control Interface
 - EIA-232 Port
- Processor and Communications Card
 - EIA-232 Port
 - Multimode (ST®) Fiber-Optic Serial Port (SEL-2812 Compatible)
 - IRIG-B Time Code Input
- 6 AC Current Inputs Card
- Power Supply Card with 2 DI, 3 DO
- ACSELERATOR QuickSet® SEL-5030 Software
- User Configurable Labels
- Instruction Manual CD (printed manual available)
- Synchrophasors with C37.118 Protocol
- Protocols
 - Modbus® RTU
 - SEL ASCII and Compressed ASCII
 - SEL Fast Meter, Fast Operate, Fast SER
 - SEL Fast Message
 - Ymodem File Transfer
 - SEL MIRRORRED BITS®
 - Event Messenger®
- SEL-787-0 Provides 3 Expansion Slots for Optional Cards.
- SEL-787-1 and SEL-787-E Provide 2 Expansion Slots for Optional Cards.

Part Number:

[illegible]

Standard Two-Winding Transformer Current Differential
Standard Two-Winding Transformer Current Differential with REF
Standard with REF plus Voltage Sensing, V/Hz Element, Over/Under Voltage and Frequency, and Power Elements

[illegible]

Power Supply 110 -250 Vdc, 110-240 Vac, 50/60 Hz (SELECT PSIO / 2 DI / 3 DO)	125 Vdc/Vac Digital Input
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[illegible]

	24 Vdc/Vac Digital Input
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[illegible]

	48 Vdc/Vac Digital Input
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[illegible]

	110 Vdc/Vac Digital Input
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[illegible]

	220 Vdc/Vac Digital Input
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1 G

	250 Vdc/Vac Digital Input
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[illegible]

Power Supply 24-48 Vdc (SELECT PSIO / 2 DI / 3 DO)	125 Vdc/Vac Digital Input
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[illegible]

	24 Vdc/Vac Digital Input
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2 B

	48 Vdc/Vac Digital Input
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2 C

	110 Vdc/Vac Digital Input
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[illegible]

	220 Vdc/Vac Digital Input
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2 G

	250 Vdc/Vac Digital Input
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2 H

SELEct Processor Board Option Slot B

Processor Board (SELEct CPU/COM)	All Slot B options include EIA-232 Front, IRIG-B, Fiber Optic Serial Multimode ST, SEL ASCII, Compressed ASCII, Fast Meter, Fast Operate, Fast Message, MIRRORED BITS, and Modbus RTU																	0		

SELEct Ethernet/Rear Serial Options Slot B

Ethernet/Rear Serial Options	No Ethernet, EIA- 232 Rear																	0		
	No Ethernet, EIA- 485 Rear																	1		
	Single 10/100Base-T Ethernet, EIA-232 Rear*																	2		
	Single 10/100Base-T Ethernet, EIA-485 Rear*																	3		
	Single 100Base-FX MM LC Ethernet, EIA-232 Rear*																	4		
	Dual 10/100Base-T Ethernet, EIA-232 Rear*																	6		
	Dual 100Base-FX MM LC Ethernet, EIA-232 Rear*																	8		

SELEct Protocols Slot B

Protocols	Standard																	0		
	Standard plus IEC 61850 (requires Ethernet)*																	1		
	Standard plus DNP3*																	2		
	Standard plus DNP3 plus IEC 61850 (requires Ethernet)*																	3		

SELEct I/O Card Option Slot C

No Card	Empty																	0	X	
3 Digital Input / 4 Digital Output / 1 4 -20 mA Analog Output (SELEct 3 DI / 4 DO / 1 AO) ⁽¹⁾	125 Vdc/Vac DI, Electromechanical DO*																	B	A	
	24 Vdc/Vac DI, Electromechanical DO*																	B	B	
	48 Vdc/Vac DI, Electromechanical DO*																	B	C	
	110 Vdc/Vac DI, Electromechanical DO*																	B	D	
	220 Vdc/Vac DI, Electromechanical DO*																	B	G	
	250 Vdc/Vac DI, Electromechanical DO*																	B	H	
4 Digital Input / 4 Digital Output (SELEct 4 DI / 4 DO)	125 Vdc/Vac DI, Electromechanical DO*																	1	A	
	24 Vdc/Vac DI, Electromechanical DO*																	1	B	

	48 Vdc/Vac DI, Electromechanical DO*		1	C	
	110 Vdc/Vac DI, Electromechanical DO*		1	D	
	220 Vdc/Vac DI, Electromechanical DO*		1	G	
	250 Vdc/Vac DI, Electromechanical DO*		1	H	
	125 Vdc/Vac DI, Fast High-Current Interrupting DO*		C	A	
	24 Vdc/Vac DI, Fast High-Current Interrupting DO*		C	B	
	48 Vdc/Vac DI, Fast High-Current Interrupting DO*		C	C	
	110 Vdc/Vac DI, Fast High-Current Interrupting DO*		C	D	
	220 Vdc/Vac DI, Fast High-Current Interrupting DO*		C	G	
	250 Vdc/Vac DI, Fast High-Current Interrupting DO*		C	H	
4 Analog Input / 4 Analog Output (SELEct 4 AI / 4 AO) (2)	±20 mA or ±10 V Jumper Selectable*		6	X	
Serial Communication Card (SELEct EIA- 232/485)*			A	0	
8 Digital Input (SELEct 8 DI)	125 Vdc/Vac*		3	A	
	24 Vdc/Vac*		3	B	
	48 Vdc/Vac*		3	C	
	110 Vdc/Vac*		3	D	
	220 Vdc/Vac*		3	G	
	250 Vdc/Vac*		3	H	
4 Digital Input / 3 Digital Output (2 Form C, 1 Form B) (SELEct 4 DI / 3 DO)	125 Vdc/Vac DI, Electromechanical DO*		D	A	
	24 Vdc/Vac DI, Electromechanical DO*		D	B	
	48 Vdc/Vac DI, Electromechanical DO*		D	C	
	110 Vdc/Vac DI, Electromechanical DO*		D	D	
	220 Vdc/Vac DI, Electromechanical DO*		D	G	
	250 Vdc/Vac DI, Electromechanical DO*		D	H	

SELEct I/O Card Option Slot D

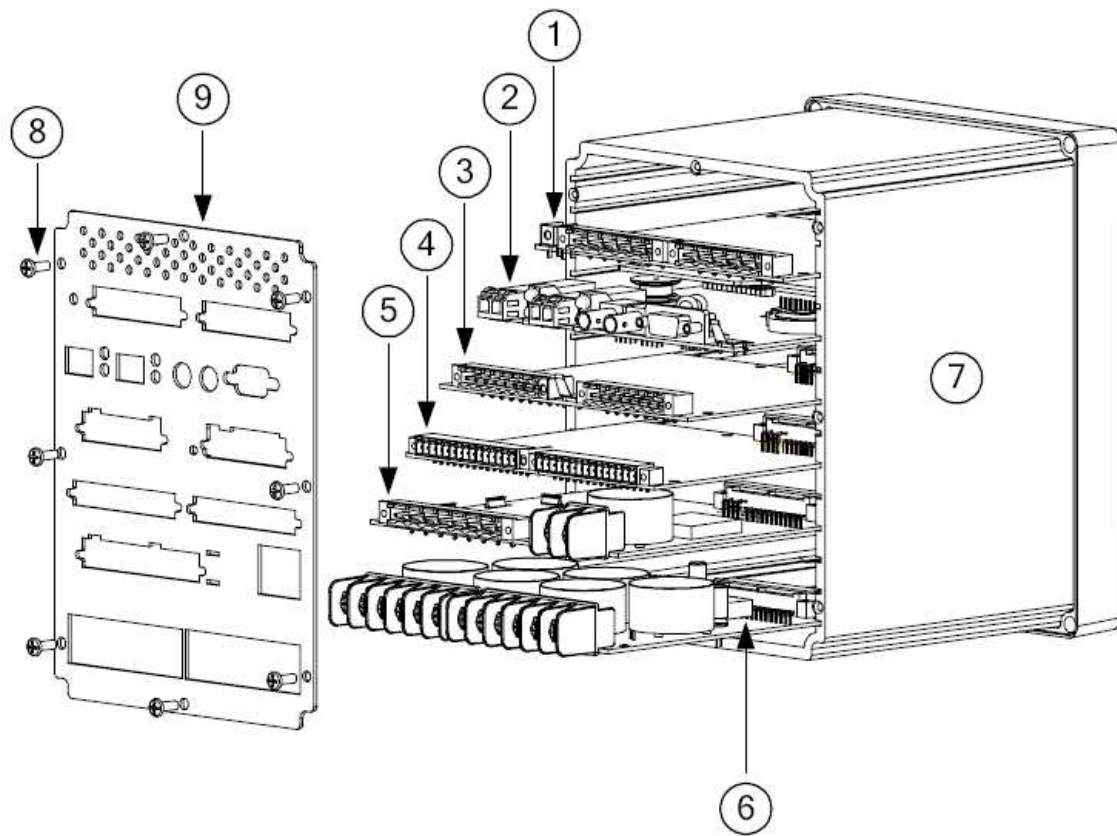
No Card	Empty		0	X	
3 Digital Input / 4 Digital Output / 1 4 –20 mA Analog Output (SELEct 3 DI / 4 DO / 1 AO) ⁽¹⁾	125 Vdc/Vac DI, Electromechanical DO*		B	A	

	24 Vdc/Vac DI, Electromechanical DO*									D	B								
	48 Vdc/Vac DI, Electromechanical DO*									D	C								
	110 Vdc/Vac DI, Electromechanical DO*									D	D								
	220 Vdc/Vac DI, Electromechanical DO*									D	G								
	250 Vdc/Vac DI, Electromechanical DO*									D	H								

[illegible]

- Order external AC powered RTD module SEL-2600A or external DC powered RTD module SEL-2600D using WI-5997 to interface remote external resistive temperature devices (RTD) or use internal RTD inputs option in Slot D.
- The SEL-787 can be ordered with a CD manual.
- The SEL-787 option cards are orderable separately for field installation. Use WI-5932 and contact your SEL representative to order option cards.
- For SEL-787 Mounting Accessories including adapter plates, dust protectors, etc go to the [SEL Mounting Selector](#)
- Remote I/O with SEL-2505 Remote I/O Module (SEL-2812 compatible ST option only).

Chassis Card Slot Configuration Example



- ① SELECT Power Supply Card with I/O (Slot A)
- ② SELECT Processor and Communications Card (Slot B)
- ③ SELECT I/O Expansion Card (Slot C)
- ④ SELECT I/O Expansion Card (Slot D)
- ⑤ SELECT I/O Expansion Card (Slot E)

- ⑥ SELECT ACI Card (Slot Z)
- ⑦ Device Case
- ⑧ Rear Panel Mounting Screws
- ⑨ Rear Panel

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

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