

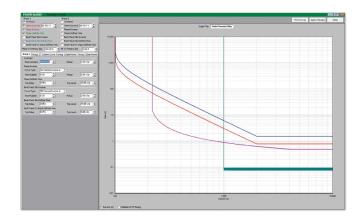
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For More Information... on Retrofits, Panel Mount Adapters and more accessories, visit Littelfuse.com/relayaccessories



SOFTWARE



Protection Relays and Alarm Systems are supplied with free software. The software simplifies programming and allows the user to save setpoint files and reuse them for similar applications.

The software gives the ability to change parameters and see the impact on the protection time current curves. It also allows another device curve to be entered to view simple coordination.

SOFTWARE					
Product		Features	Accessory For		
Solutions-M Relay Interface Software	PARTIES STATE OF THE PARTIES OF THE	Provides the ability to configure and monitor Modbus networks. The features include data logging, real-time data monitoring and fault and event monitoring. Devices can be added and configured manually or the software can scan an existing network to identify devices which can be used as is or reconfigured by the user. Setpoints for each device can be uploaded and downloaded for easy monitoring and reconfiguration.	RS485 TCP/IP networks MotorSaver and PumpSaver Devices		
SE-COMM-RIS Relay Interface Software	Section 1	Provides remote access to metering, control, data logging, and programming features. Setpoints can be accessed individually, downloaded as a file, and protective curves can be plotted. Metered data can be observed or logged for later study.	FPU-32 FPS MPS MPU-32		
SE-FLASH Firmware Update Utility	The second secon	Used to update relay firmware to add new features.	FPU-32 FPS MPS MPU-32 EL731		
SE-MON330 Relay Interface Software		Used to receive data from the SE-330. It displays relay set points and measured values, and features data logging of information at a selectable interval.	SE-330 SE-330AU SE-330HV		
VMPU Virtual Motor Protection Relay	in the second se	Allows the user to scroll through the MPU-32 Motor Protection Relay menu.	MPU-32		
VMPS Virtual Motor Protection System		Allows the user to scroll through the MPS Motor Protection System menu.	MPS		
VFPU Virtual Feeder Protection Relay		Allows the user to scroll through the FPU-32 Feeder Protection Relay menu.	FPU-32		
MPU-32 Tutorial MPU-32 Online Self-Training Tutorial	To the second se	Online Self-Training tutorial for MPU-32 programming.	MPU-32		



ELECTRICAL

	Product			Features		Accesso	ry For	
PGA-1100. Diode Logic Unit		AND STATE OF THE S	and more than one Lit separates the trip path tripped independently	ing information available at	PGR-8800 D0920) AF0500 D1000) AF0100	ļ
P1004-XX Versa-Pot PART NUMBER P1004-199 P1004-174 P1004-175	-(X) WITH WIRE LEADS	VALUE 50kΩ 100KΩ 200KΩ	The shaft is slotted for serrated for slip-proof Versa-Knob or Lock Sh two 8 in. (20.3 cm) wir	ote time delay adjustment. r screwdriver adjustment and finger adjustment. Accepts aft. May be ordered with	Consult i compatib P1004-17 PHS Seri	4 & P1004-175 es	asheet for 5:	
P1004-95	P1004-95-X	100kΩ		ds by adding suffix -X to end of		& P1004-16-X ERDM ERDI		TRN
P1004-17		500kΩ	part number.	, ,			TS6	
P1004-16	P1004-16-X	1ΜΩ	Specifications	0.0514/5502	D4654	D4004 44 T	004.40.5	
P1004-15		1.5ΜΩ	Rating Taper	0.25W at 55°C Linear	P1004-15 & P1004-		004-13, P1004-	·12,
P1004-14		2ΜΩ	Shaft Rotation	300° ±5°	Series:		ORS TAC1 T	THE
P1004-12	P1004-12-X	3ΜΩ	Tolerance	±10%		TRB TRM		
P1004-13		5ΜΩ				rs4 TS6	TSD7 TSU200)0
P0700-7 Versa-Knob P0700-8 Lock Shaft			of Versa-Pot. Semi-glo Fits 0.25 in. (6.35 mm)			P1004-X		
P1004-9 P1004-31 Mini-Pot PART NUMBER P1004-9 P1004-10	VALUE 500kΩ 1MΩ	300	time delay adjustment the timer's center hole mini-mount bracket fo Adjustment by screwd ordered with two 3 in. pot (clockwise increas	ial potentiometer for remote . The shaft extends through for easy panel mounting. Use r standup mounting of timer. Iriver or mini-knob. May be (7.6 cm) wires soldered to e) and female quick connect ds by adding suffix -X to end of	Series:	TAC1 TS TS4 TS TSU2000		
P1004-31	3ΜΩ		Taper	Linear				
			Shaft Rotation Tolerance	300° ±5° ±10%				
P0700-21 Mini-Knob			Versa-Knob is designe of Versa-Pot. Semi-glo	d for 0.25 in (6.35 mm) shaft		P1004-X	X-(X)	

Accessories Electrical

ELECTRICAL

	Product		ELEC	TRICAL ACCI			Accessory For
P0200-19 Heat Sink Comp 2 grams P0200-20 Heat Sink Comp 100 grams		on source	consisting of pr month shelf life	imarily zinc oxi (EOD date on h current, plate	eat sink compound de and having a 12 the label). P0200-19 ed 2 x 2 in. (50.8 x 00-20 mounts	Any 2 x 2 in. or flasher.	(50.8 x 50.8 mm) plated timer
P1015-18 Quick Connect Screw Adaptor			modules with 0	1.25 in. (6.35 m als. Screw tern	ned for use with all m) male quick ninal accepts ring	male quick o	h 0.25 in. (6.35 mm) connect terminals. ndividual datasheet to ompatibility.
P1015-13 P1015-64 P1015-14 Female Quick Connect Termina	als				ale terminals are barrel to provide	Consult indiv	ridual datasheet to ompatibility.
P0400 Time Adjustmen	nt Dials	Time Delay Relay					
PART NUMBER	RANGE	INCREMENTS					
P0400-12	0.05 - 1s	0.1s	Dials for use w	ith remote Vers	sa-Pot and panel	P1004-9	P1004-10 P1004-12
P0400-86	0.1 - 10m	1m			creen printed on clear	P1004-13	P1004-16 P1004-31
P0400-82	0.1 - 10s	1s	plastic to avoid	damage to pri	nted image.	P1004-95	
P0400-17	1 - 30s	5s					
P0400-83	1 - 60s	10s					
P0400-27	0 - 10	MRD*					
*Multiplier Referen	ce Dial						
VTPXX VTP	S THE TOTAL PROPERTY OF THE PARTY OF THE PAR		adjustment tern Available in res	ninals. Rated a istance values	dules with in-line t 0.25W at 55°C. from 5K Ω to 5M Ω		
PART NUMBER	R _T VALUE	RANGE	PART NUMBER	R _T VALUE	RANGE		
VTP0E	250kΩ	0.5 - 20s 0.05 - 3s	VTP4R	2ΜΩ	0.1 - 4m 0.05 - 3s		
VTP1C	0.5ΜΩ		VTP4B	3MΩ		Series: TAC1	
VTP1C	0.5ΜΩ	0.1 - 10s	VTP4F	3MΩ	0.5 - 60s	TS2	TS4 TS6 TSD7
VTP1D	0.5ΜΩ	0.5 - 10s	VTP4J	3MΩ	2 - 180s		
VTP2A	1ΜΩ	0.05 - 1s	VTP4P	3MΩ	1 - 100m		
VTP2C	1ΜΩ	0.1 - 10s	VTP5G	5ΜΩ	1 - 100s		
VTP2E	1ΜΩ	0.5 - 20s	VTP5K	5ΜΩ	10 - 1000s		
VTP2F	1ΜΩ	0.5 - 60s	VTP5N	5ΜΩ	0.1 - 10m		
VTP2J	1ΜΩ	2 - 180s	VTP5P	5ΜΩ	1 - 100m		
VTP2P	1ΜΩ	1 - 100m	VTPDF	50ΚΩ	0.5 - 60s		
VTP3B	2ΜΩ	0.05 - 3s					



ELECTRICAL

			ELEC	TRICAL ACCES	SSORIES	3			
	Product			Features				Accessor	/ For
LPSM003Z Indicating Fuse H LPSM003Z Non-indicating Fu	older	Rama Bana Banan	Littelfuse POWI optimum protec Midget-Style fu	tion to personne	el for Clas		Series:	PLMU P	LMU PLM LR PLS VW WVN
OKLK002.T Midget Fuse (2 A			10 x 38 fast act current-limiting				FH3P	LPSM003ZXII	D LPSMO
			The VRM6048 a						
VRM6048 Voltage Monitor Accessory Modu	575VAC —	460VAC L1 L2 + L3 Voltage Monito	Adjustment Package Mounting Termination Operating Storage Humidity Voltage	If the measure is 575VAC, cand adjust/s monitor for 4 Molded house encapsulated Surface mou (M5 x 0.8) place be DIN Rail in P1023-20 Ad Screw termir wire clamps AWG wire40° to 70°C -40° to 85°C 95% relative Input 600VAC 575VAC 550VAC	onnect as elect the control of the c	s shown voltage peration. ne #10 w. May using captive No.12 densing tput* 0VAC 0VAC	Series:	PLM PLR PLS TVM TVW (manufactur December	l / ed after
			*The VRM6048 mu monitor is disconne input voltage.		shown. If t				
V150LA10	AP		monitor is disconne	AP, a transient vo radial leaded vo e operated cont is UL recognizec	shown. If t put voltage oltage sur aristors (N tinuously	the voltage equals the equal the equals the equal the equals the equal the equals the equal t	Any of o	ur products th 150 VAC or 2	•
	MAX. OPERA	TING VOLTAGE	monitor is disconne input voltage. The V150LA10A suppressor, is a is designed to be power lines. Th	AP, a transient voradial leaded value operated continuity space. VARISTOR VOLT. 1MA DC TEST CI	shown. If t put voltage oltage sur aristors (N tinuously d varistor	rge MOVs) that across AC requires	NG VOLTAGE WAVE	•	DISC DIAMETER
LA Varistor		TING VOLTAGE DC (V) 200	monitor is disconne input voltage. The V150LA10A suppressor, is a is designed to be power lines. The very little moun MAX IMPULSE CURRENT 80.20 µs	AP, a transient voradial leaded value operated continuity space. VARISTOR VOLT. 1MA DC TEST CI	shown. If t put voltage oltage sur aristors (N tinuously d varistor	rge MOVs) that across AC requires	NG VOLTAGE	150 VAC or 2	DISC

Accessories

Ground Reference Modules, High-Tension Couplers, & Relay Testers

GR MODULES, HIGH-TENSION COUPLERS, & RELAY TESTERS

GROUND-REFERENCE MODULES					
Product		Features	Accessory For		
SE-GRM024 Ground Reference Module	G C C C C C C C C C C C C C C C C C C C	Connects the SE-601 relay to an ungrounded 24 Vdc bus.	SE-601		
SE-GRM048 Ground Reference Module	GO CONTROL OF CONTROL	Connects the SE-601 relay to an ungrounded 48 Vdc bus.	SE-601		
SE-GRM125 Ground Reference Module	G	Connects the SE-601 relay to an ungrounded 125 Vdc bus.	SE-601		
SE-GRM250 Ground Reference Module	GO CONTROL OF CONTROL	Connects the SE-601 relay to an ungrounded 250 Vdc bus.	SE-601		
SE-GRM500 Ground Reference Module		Connects the SE-601 relay to an ungrounded 500 Vdc bus.	SE-601		
SE-GRM780 Ground Reference Module		Connects the SE-601 relay to an ungrounded 780 Vdc bus.	SE-601		
SE-GRM1000 Ground Reference Module		Connects the SE-601 relay to an ungrounded 1000 Vdc bus.	SE-601		
		HIGH-TENSION COUPLERS			
Product		Features	Accessory For		
PGH-5000 High Tension Couplers		Allows 5-kV systems to be connected to relay.	PGR-6100 PGR-3200		
PGH-6000 High Tension Couplers		Allows 6-kV systems to be connected to relay.	PGR-6100 PGR-3200		
		PROTECTION RELAY TESTERS			
SE-100T C us Ground-Fault Relay Tester	Same Page 1	Tests the current pickup level ground-fault protection. Tests the entire ground-fault circuit.	Accessory For Any Relay on Substations, MCCs, Central Distribution Panels, Switchboards, and Test Benches		
SE-400 Ground-Fault-Relay Test Unit		Tests the current pickup level, time delay and coordination of ground-fault protection. Tests the entire ground-fault circuit.	Any Relay on Substations, MCCs, Central Distribution Panels, Switchboards, and Test Benches		



INPUT MODULES & METERS

INPUT MODULES					
Product		Features	Accessory For		
MPS-RTD Temperature Input Module	O Manual De la Man	Provides 8 programmable inputs to connect Pt100, Ni100, Ni120, and Cu10 RTDs.	MPU-32 MPS		
MPS-DIF Differential Current Module	Martin State Control C	Adds motor differential protection, compatible with core balance and summation current transformer connections.	MPU-32 MPS		
MPU-CIM Current Input Module		Interface between current transformers and MPU-32 or FPU-32 series relays. Reduces potential for open CT hazard.	MPU-32 FPU-32		
PGA-LS10 Point Sensor		Line-of-sight light sensor detects an arc as small as 3 kA within a 2-m half-sphere. Local LED continually displays sensor health or trip state.	PGR-8800 AF0500 AF0100		
PGA-LS20 Fiber-Optic Sensor		Used to detect light and coordinate with current detection to eliminate nuisance tripping. 8 m (26.2 ft) active; 10 m (32.8 ft) total.	PGR-8800 AF0500 AF0100		
PGA-LS30 Fiber-Optic Sensor		Used to detect light and coordinate with current detection to eliminate nuisance tripping. 18 m (59 ft) active; 20 m (66 ft) total	PGR-8800 AF0500 AF0100		
A0200/A0300 Light Sensor		Line-of-sight light sensor detects an arc as small as 3 kA within a 2-m halfsphere. Available in both 180° and 360°.	D0920		
A0220 Arc Detecting Point Sensor	- North	Line-of-sight light sensor detects an arc as small as 3 kA within a 2-m half-sphere. Available with 10 or 15 m cable. Full datasheet and ordering information available at www.littelfuse.com/a0220	PGR-8800 AF0500 AF0100 D0920 D1000		
LCSC10T12 Toroidal Current Sensor		Remote monitoring of currents up to 50A. Inner diameter 9.14 mm (0.36")	DCSA Series		

REMOTE INDICATION & METERS					
Product	Features	Accessory For			
RK-105 Remote Indication and Reset Assembly c sus	Panel-mounted remote indication and reset with NEMA 1 rating.	SE-105 SE-107			
RK-105I Remote Indication Assembly (I) c (I) us	Panel-mounted remote indication with NEMA 1 rating.	SE-105 SE-107			
RK-102 Industrial Remote Indication and Reset Kit	Panel-mounted remote indication and reset, standard 22 mm mounting, with NEMA 4 and NEMA 13 rating.	SE-105 SE-107			
RK-132 Industrial Remote Indication and Reset Kit	Panel-mounted remote indication and reset, standard 22 mm mounting, with NEMA 4 and NEMA 13 rating.	SE-134C SE-135 SE-145			
RK-325 Remote Indication and Reset Assembly (L) c tus	Panel-mounted remote indication and reset with NEMA 1 rating.	SE-325			



METERS & SENSING RESISTORS

	REMOTE INDICATION & METERS	
Product	Features	Accessory For
RK-325I Remote Indication Assembly	Panel-mounted remote indication with NEMA 1 rating.	SE-325
RK-302 Remote Indication and Reset Kit	Panel-mounted remote indication and reset, standard 22 mm mounting with NEMA 4 and NEMA 13 rating.	SE-325
RK-332 Remote Indication and Reset Kit	Panel-mounted remote indication and reset, standard 22 mm mounting with NEMA 4 and NEMA 13 rating.	SE-330 SE-330AU SE-330HV
PGA-0500 Analog % Current Meter	Panel-mounted analog meter displays ground-fault current as a percentage of the set point.	SE-601 SE-701 PGR-4300 SE-703 PGR-6100 SE-704
PGA-0510 Analog Ohm Meter	Panel-mounted analog ohmmeter displays insulation resistance from 0 Ω to infinity.	PGR-3200 PGR-6100 PGR-6101-120

	SENSING RESISTORS	
Product	Features	Accessory For
ER-600VC (PGE-600V) Sensing Resistor	Used on systems up to 1 kV. (Continuous duty)	SE-330 SE-325 SE-330AU
SE-MRE-600 Enclosure	Used in outdoor enclosures. (ER-600VC ordered separately)	ER-600VC
ER-5KV (PGE-05KV) Sensing Resistor	Used on systems up to 5 kV. (Continuous duty)	SE-330 SE-325 SE-330AU
ER-5WP (PGE-05WV) Sensing Resistor	Used on systems up to 5 kV, includes weather-protected terminals for use in outdoor enclosures. (Continuous duty)	SE-330 SE-325 SE-330AU
ER-15KV (PGE-15KV) Sensing Resistor	Used on systems up to 15 kV. (Non-continuous duty)	SE-330 SE-325 SE-330AU SE-330HV
ER-25KV (PGE-25KV) Sensing Resistor	Used on systems up to 25 kV. (Non-continuous duty)	SE-330 SE-325 SE-330AU SE-330HV
ER-35KV (PGE-35KV) Sensing Resistor	Used on systems up to 35 kV. (Non-continuous duty)	SE-330 SE-330AU SE-330HV
ER-72KV (PGE-72KV) Sensing Resistor	Used on systems up to 72 kV. (Non-continuous duty)	SE-330HV



REMOTE INDICATION & MONITORING

REMOTE INDICATORS & MONITORS					
Product		Features	Accessory For		
RM1000 RM1000-3R RM1000 NEMA 4 Motor-monitoring Device	Steen	Motor-monitoring device to be used in conjunction with the 777 family of products (excluding the P1 Series), 77C family of products, and the 601 voltage monitors, via Modbus protocol with a communications module. The RM1000/777 motor management system combines unsurpassed electronic motor protection and critical, user-friendly, motor monitoring. Full datasheet available at www.littelfuse.com/rm1000	777 Series 77C Series 601 Series		
RM2000 RM2000CBM+ RM2000-RTDW Motor-monitoring Device	MARKS WITH THE PROPERTY OF THE	Motor-monitoring device to be used in conjunction with the 777 family of products (excluding the P1 Series), 77C family of products and the Model 601 voltage monitors, via Modbus protocol with a communications module. The RM2000/777 motor management system combines unsurpassed electronic motor protection and critical, user-friendly, motor monitoring. Full datasheet available at www.littelfuse.com/rm2000	777 Series 77C Series 601 Series		
INFORMER Remote diagnostic tool	PARTICIPATION OF THE PARTICIPA	Hand-held diagnostic tool designed for use with single-phase pump relays. The Informer uses an infrared receiver to access information sent from the relay which can be helpful for troubleshooting the system. Comes with IR Kit-12 (12" long). Full datasheet available at www.littelfuse.com/informer	111P 111-Insider-P 111P-ENCL 231-Insider-P 232-Insider 233P-1.5 233P-ENCL 233P-1.5-ENCL 234-P 235P 235P-ENCL		
IR Kit-36 (36" long) Informer Fiber Optic Kit	À	Use with the Informer. Simply attaches to the face of the unit to provide remote diagnostics without opening the panel.	LSRX1 111-Insider-P 455 LSRX-C 231-Insider-P		
INFORMER-MS Remote diagnostic tool	NEGRALE STATES	Hand-held diagnostic tool designed for use with the Littelfuse 455 Series. The Informer-MS uses an infrared receiver to read valuable information transmitted from the 455, which can be helpful for troubleshooting the system Full datasheet available at www.littelfuse.com/informer-ms	455 Series		
OL-RESET Remote Reset Module	MotoSaer Oceasur Demonstration Oceasur Oceas O	Allows the 777 line of motor and pump relay products to be manually reset without opening the panel door. Simply connect the module to the 777 communication port, connect a wire to each of the two applicable pins on the OL-RESET and to a normally-open push-button switch (sold separately). Mount the push-button switch in a convenient location.	777 Series		
777-MRSW Manual Remote Reset Kit (24" long)		Allows the 777 line of motor and pump relay products to be manually reset without opening the panel door. Simply connect the 9-pin adapter to the 777 communication port and mount the push-button switch in a convenient location.	777 Series		
M500 Electronic Megohmmeter		Automatic, portable, battery-powered insulation tester. This unit inexpensive alternative to costly swing needle megohmmeters. T resistance values of motors, generators and transformers up to 1 the condition of insulation on the zone scale. Its compact design great diagnostic tool for motor rewind shops, electrical maintenance.	he M500 measures insulation 000 megohms at 500VAC, indicating and ease of use makes the M500 a		



COMMUNICATION ADAPTERS & MODULES

COMMUNICATION ADAPTERS					
Product		Features	Accessory For		
RS485-RS232 Converter with cable & plug		Allows RS485 devices to be connected to a PC via the RS232 (serial) port. The converter provides convenient terminal blocks for making signal and DC power supply connections. An optional power supply may be required for laptops or other computers with low power serial ports, or for very large networks. Pre-wired for easy installation on the RS485MS-2W module.	RS485MS-2W		
RS485-USB Converter with cable & plug/RS232:USB		Allows RS485 devices to be connected to a PC via the USB port. The converter provides convenient terminal blocks for making signal and DC power supply connections. An optional power supply may be required for laptops or other computers with low power serial ports, or for very large networks. Pre-wired for easy installation on the RS485MS-2W module.	RS485MS-2W		
AC700-CUA Communications Adapter	3 O	Optical network-interface and firmware-upgrade communication adapter. Field-installed.	EL731		
		COMMUNICATION MODULES			
Product		Features	Accessory For		
RS485MS-2W Communication Module	Aprilian on Marine and	This module is required when the RM1000, RM2000 or other Modbus capable device is used with 77X-type products. Full datasheet available at www.littelfuse.com/rs485ms2w	Series: RM1000 77X RM2000		
CIO-DN-P CIO-120-DN-P Communication link to PLC/ SCADA/monitoring systems	Day-ton.	Convenient and cost-effective Devicenet™ interfaces capable of providing discrete control and monitoring of motor starters, drives and other devices over a Devicenet™ network. Full datasheet available at www.littelfuse.com/ciodnp-cio120dnp	777 Series		
CIO-EN Communication link to PLC/ SCADA/monitoring systems	The state of the s	The CIO-EN Module (non-POE) is a convenient and cost- effective Modbus-TCP and Modbus-RTU interface capable of providing discrete control and monitoring of an overload relay over a Modbus network.	777 Series		
CIO-MB CIO-120-MB Communication link to PLC/ SCADA/monitoring systems	Comments of the second of the	Convenient and cost-effective Modbus-RTU interfaces capable of providing discrete control and monitoring of an overload relay over a Modbus network. Full datasheet available at www.littelfuse.com/ciomb-cio120mb	777 Series		
CIO-777-PR Communication link to PLC/ SCADA/monitoring systems	A. C	Convenient and cost-effective Profibus interface capable of providing discrete control and monitoring of motor starters, drives and other devices over a Profibus network. Full datasheet available at www.littelfuse.com/cio777pr	777 Series ending in P, -P, or -P2		
CIO-601CS-DN-P1	Service Servic	Convenient and cost-effective DeviceNet [™] device capable of providing discrete control and monitoring of motor starters, drives and other devices over a DeviceNet [™] network.	601-CS-D-P1		
COM 4-20 Communication link to PLC/ SCADA/monitoring systems	Purposaver stands of the stand	Send a 4-20mA signal proportional to the output power. It can also be used to send the input power by setting the efficiency setting on the 777-AccuPower monitor to one. This module allows communication to a PLC with an analog input and no Modbus input. Full datasheet available at www.littelfuse.com/com420	777-AccuPower		



TERMINATIONS & ADAPTERS

	TERMINATIONS & ADAPTERS	
Product	Features	Accessory For
1N5339B Termination Device	5 W axial-lead ground-check termination. Included with SE-105 and SE-107.	SE-105 SE-107
SE-TA6-SM Stud-Mount Termination Assembly	50 W ground-check termination that is robust and compact for submersible pumps. Wire lead simplifies installation. (Replacement for 1N4553B)	SE-105 SE-107
SE-TA6 Termination Assembly	50 W ground-check termination with convenient mounting holes and screw terminals.	SE-105 SE-107
SE-TA6A (PGA-0T6A) Termination Assembly c results to the state of the	Temperature compensated 50 W ground-check termination with convenient mounting holes and screw terminals.	SE-105 SE-107 SE-134C
SE-TA6A-WL Termination Assembly	Temperature compensated 50 W ground-check termination with convenient mounting holes and screw terminals.	SE-105 SE-107 SE-134C
SE-TA6ASF-WL Small-Format Termination Assembly with Wire Leads	Temperature compensated 12 W ground-check termination, ideal for use in cable-coupler end caps and submersible pumps. Mounting holes and wire leads.	SE-105 SE-107 SE-134C
SE-TA12A Termination Assembly	Temperature compensated 50 W ground-check termination with convenient mounting holes and screw terminals.	SE-135 SE-145
SE-TA12ASF-WL Small-Format Termination Assembly with Wire Leads	Temperature compensated 12 W ground-check termination, ideal for use in cable-coupler end caps and submersible pumps. Mounting holes and wire leads.	SE-135 SE-145
SE-TA12A-WL Termination Assembly	Temperature compensated 50 W ground-check termination with convenient mounting holes and screw terminals.	SE-135 SE-145
SE-TA12A SE-TA12B Termination Assemblies	Used together to allow an SE-134C to monitor a splitter box and two cables.	SE-134C
PPI-600V Parallel Path Isolator	Parallel ground-path rejection for ground-check monitors. Eliminates intermachine arcing and prevents stray DC currents from flowing in a monitored ground wire.	SE-105 SE-107 SE-134C SE-135
RK-13 Relay Interface Module	Separate ground-fault and ground-check indication contacts for the SE-105, and separate ground-fault and resistor-fault contacts for the SE-325. Used to provide output to a PLC and operate standard pilot lights. Complete with conformally coated circuit boards.	SE-105 SE-107 SE-325
SE-485-DIN Industrial RS-485 to RS-232 Converter	Industrial network quality RS-485 to RS-233 serial converter. DIN-rail mounted, 24 Vdc required.	MPS FPS
SE-485-PP Port-Powered Serial Converter	Converts an RS-485 signal to an RS-232 signal. Used for set-point programming and updating flash memory. 115.2 kbit/s maximum transfer rate.	MPU-32 MPS FPU-32 FPS
CA-945 Serial Connector Adapter Kit	Connects an RJ45 to a 9-pin serial connector. Includes 1.5 m cable and plug-in adapter.	MPU-32 FPU-32
SE-ICUSB232 USB to RS-232 Converter	Connects a 9-pin serial cable to a USB port.	SE-330 CA-945 SE-330AU SE-330HV SE-485-PP SE-485-DIN

LIQUID LEVEL PROBES & PROBE HOLDERS

LIQUID LEVEL CONTROL ELECTRODES			
Product	Features	Accessory For	
LLP-24 Liquid Level Probe	Threaded stainless steel probe measuring 24 in. (61 cm) long. Designed for use with PHST-38QTN liquid level control electrodes.	PHST-38QTN	
PHST-38QTN Probe Holder P0700-409 Protective Boot 4.20 (106.68) REF (19.05) (74.MIN (19.05) (77.15 ±1.27) (19.05) (19	Designed for use with all conductive liquid level controls. Composed of insulators and metal parts made of number 300 series stainless steel. These internally conductive probe holders are designed for a maximum steam pressure of 240 PSI; 400° F maximum. Maximum voltage from electrode to ground. PHST-38QTN is UL 353 Recognized.	Series: LLC1 LLC2 LLC4 LLC5 LLC6 LLC8 PC-XXX-LLC-CZ PC-XXX-LLC-GM 460-15-100-LLS	



CT SELECTION GUIDE

		PRODUCT	GROUND-FAULT CT	GROUND-FAULT TRIP LEVEL (or insulation level)	PHASE CTS	PAGE #	
		SE-601	No CTs required	1-20 mA	N/A	-	
		PGR-3100	No CTs required	Indication only	N/A	_	
N LT	₽	PGR-3200	No CTs required	Warnings at 30 k Ω & 50 k Ω , Alarm at 10 k Ω	N/A	_	
GROUND-FAULT Protection	÷		CT200 Series	10-198 A		480	
98 88		SE-701/SE-703	EFCT Series	50 mA-4.95 A	N/A	480	
			SE-CS30 Series	300 mA-29.7 A		480	
		SE-704	SE-CS30 Series	10 mA-5 A	N/A	480	
	L	EL731	EFCT Series	30-5,000 mA AC and DC	N/A	480	
UND- UCTOR Toring	9	SE-105/SE-107	CT200 Series	0.5-4 A	N/A	480	
GROUND- CONDUCTOR MONITORING		SE-134C/SE-135	SE-CS10 Series	0.5-12.5 A	N/A	480	
			CT200 Series	12-200 A		480	
RESISTANCE Grounding	*	SE-330	EFCT Series	100 mA-5 A	N/A	480	
RESIS	7		SE-CS30 Series	600 mA-30 A		480	
	L	SE-325	CT200 Series	0.5-4 A	N/A	480	
		MPU-32*	CT200 Series	10-200 A		480	
			EFCT Series	50 mA-5 A	N/A	480	
			SE-CS30 Series	300 mA-30 A		480	
<u> </u>				CT200	10-200 A		480
MOTOR & PUMP Protection	STO	MPS*	EFCT Series (5-A Primary)	50 mA-5 A	1-A, 5-A Secondary CTs	480	
MO			SE-CS30 Series (30-A Primary)	300 mA-30 A		480	
		MPU-32-X69X-PMA16	Existing CTs can be used or same as MPU-32.			480	
		MPS-469X-PMA24	Existing CTs can be used or same as MPS.			480	
			CT200 Series	10-200 A		480	
		FPU-32*	EFCT Series	50 mA-5 A	1-A, 5-A Secondary CTs	480	
NO NO			SE-CS30 Series	300 mA-30 A		480	
FEEDER PROTECTION	₩		CT200	10-200 A		480	
ă.		FPS*	EFCT Series (5-A Primary)	50 mA-5 A	1-A, 5-A Secondary CTs	480	
# S	إ	=	SE-CS30 Series (30-A Primary)	300 mA-30 A		480	
ARC-FLASH Protection	7	PGR-8800*	N/A	N/A	5-A Secondary CTs (optional)	480	

Note: See page 502 for additional information on CT selection. See page 482 for CT sizing chart.

^{*}Phase CTs should be selected with a primary rating of 100-300% of rated current to maintain specified accuracy.

 $[\]mbox{\$}\mbox{Select}$ a CT with a primary rating approximately equal to the system's rated current.



CURRENT TRANSFORMERS

CURRENT TRANSFORMERS					
Product	Features	Inner Diameter		Accessory F	or
CT200 (PGC-2056) Current Transformer	Detects phase current or ground-fault current (200-A primary)	56 mm (2.20")	FPS MPU-32 SE-330	FPU-32 PGR-8800 SE-325	MPS SE-105/107 SE-701
CT200L (PGC-2089) Current Transformer	Detects phase current or ground-fault current (200-A primary)	89 mm (3.50")	FPS MPU-32 SE-107	FPU-32 PGR-8800 SE-701	MPS SE-105
EFCT-26 (PGC-3026) Ground-Fault Current Transformer Ground-Fault Current	Sensitive current transformer used to detect ground-fault current (5-A primary)	26 mm (1.02")	EL731 MPS SE-701	FPS MPU-32	FPU-32 SE-330
FFCT-1 (PGC-3082) Ground-Fault Current Transformer U cous	Sensitive current transformer used to detect ground-fault current (5-A primary)	82 mm (3.23")	EL731 MPS SE-701	FPS MPU-32	FPU-32 SE-330
FCT-2 (PGC-3140) Ground-Fault Current Transformer UL C Us	Sensitive current transformer used to detect ground-fault current (5-A primary)	140 mm (5.50")	EL731 MPS	FPS MPU-32	FPU-32 SE-701
EFCT-1FC (PGC-31FC) Flux Conditioner	Fits in the EFCT-1 window to reduce saturation and prevent false operation due to large surge currents	70 mm (2.75")		EFCT-1	
SE-CS10-2.5 (PGC-4064) Current Sensor	Detects ground-fault current	64 mm (2.50")	SE-134C	SE-135	SE-145
SE-CS10-4 (PGC-4108) Current Sensor	Detects ground-fault current	108 mm (4.25")	SE-134C	SE-135	SE-145
SE-CS10-6 (PGC-4160) Current Sensor	Detects ground-fault current	160 mm (6.31")	SE-134C	SE-135	SE-145
SE-CS10-8 (PGC-4210) Current Sensor	Detects ground-fault current	210 mm (8.25")	SE-134C	SE-135	SE-145
SE-CS30-26 (PGC-5025) Ground-Fault Current Transformer	Current Transformer for low-level ground faults, flux conditioner is standard (30-A primary)	25 mm (0.98")	FPS MPU-32 SE-330	FPU-32 PGR-6100 SE-701	MPS PGR-6101 SE-704
SE-CS30-70 (PGC-5060) Ground-Fault Current Transformer	Current Transformer for low-level ground faults, flux conditioner is standard (30-A primary)	60 mm (2.36")	FPS MPU-32 SE-330	FPU-32 PGR-6100 SE-701	MPS PGR-6101 SE-704
SE-CS30-4 (PGC-5095) Ground-Fault Current Transformer	Current Transformer for low-level ground faults, flux conditioner is standard (30-A primary)	95 mm (3.74")	FPS MPU-32 SE-330	FPU-32 PGR-6100 SE-701	MPS PGR-6101 SE-704
SE-CS30-5 (PGC-5130) Ground-Fault Current Transformer	Current Transformer for low-level ground faults, flux conditioner is standard (30-A primary)	130 mm (5.12")	FPS MPU-32 SE-330	FPU-32 PGR-6100 SE-701	MPS PGR-6101 SE-704
SE-CS30-8 (PGC-5200) Ground-Fault Current Transformer	Current Transformer for low-level ground faults, flux conditioner is standard (30-A primary)	200 mm (7.87")	FPS MPU-32 SE-330	FPU-32 PGR-6100 SE-701	MPS PGR-6101 SE-704
SE-CS40-6 Current Sensor NOTE: Contact factory for additional CT offerings.	Detects ground-fault current	160 mm (6.31")	SE-135	SE-145	

www.littelfuse.com/relayct



INSTRUMENTATION & METERING TRANSFORMERS



Donut Style

Foot Mounted

Ordering Information

DONUT MODEL	WINDOW	CURRENT RATIO
CT-0050-D10	1.0"	50:5
CT-0075-D10	1.0"	75:5
CT-0100-D10	1.0"	100:5
CT-0150-D10	1.0"	150:5
CT-0200-D10	1.0"	200:5
CT-0300-D10	1.0"	300:5
CT-0200-D20	2.0"	200:5
CT-0300-D20	2.0"	300:5
CT-0400-D20	2.0"	400:5
CT-0500-D20	2.0"	500:5

FOOTED MODEL	WINDOW	CURRENT RATIO
CT-0050-F10	1.0"	50:5
CT-0100-F10	1.0"	100:5
CT-0150-F10	1.0"	150:5
CT-0200-F10	1.0"	200:5
CT-0300-F10	1.0"	300:5
CT-1200-F15	1.5"	1200:5
CT-0150-F20	2.0"	150:5
CT-0200-F20	2.0"	200:5
CT-0300-F20	2.0"	300:5
CT-0400-F20	2.0"	400:5
CT-0600-F20	2.0"	600:5
CT-0400-F30	3.0"	400:5
CT-0800-F30	3.0"	800:5

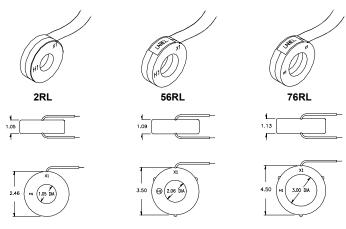
Description

Littelfuse offers a wide array of instrument rated current transformers in 1-3 inch diameter opening.

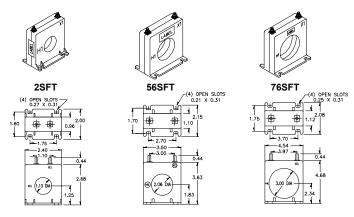
Voltage class: 600V BIL rating: 10kV

Dimensional Drawing

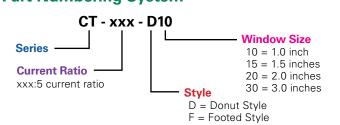
DONUT STYLE



FOOT MOUNTED WITH BRASS TERMINALS



Part Numbering System





INSTRUMENTATION & METERING TRANSFORMERS

INSTRUMENTATION AND METERING TRANSFORMERS				
Product	Features	Inner Diameter	,	Accessory For
CT-XXXX-DXX Series Donut Style Transformer	Littelfuse offers a wide array of instrument rated current transformers in 1-3 inch diameter opening. Full datasheet and ordering information available at www.littelfuse.com/ctxxxxdxx	25.4 - 76.2 mm (1 - 3")	Series: 777 ECSW LSRU TCSA	DCSA ECS LSR-0 LSR-XX LSRX TCS LCSC10T12
CT-XXXX-FXX Series Footed Style Transformer	Littelfuse offers a wide array of instrument rated current transformers in 1-3 inch diameter opening. Full datasheet and ordering information available at www.littelfuse.com/ctxxxxfxx	25.4 - 76.2 mm (1 - 3")	Series: 777 ECSW LSRU TCSA	DCSA ECS LSR-0 LSR-XX LSRX TCS LCSC10T12

Current Transformer Sizing Chart

Conductor	M	linimum CT	Window Siz	e (Inner Dia	meter in mi	n)
Size	Number of Conductors					
(AWG/kcmil)	1	3	4	6	8	12
12	4	8	9	11	13	15
10	6	10	11	14	16	19
8	7	12	14	17	20	24
6	9	15	18	22	25	31
4	11	19	22	28	32	39
3	13	22	25	31	36	44
2	14	25	28	35	40	49
1	16	28	32	39	45	55
1/0	18	31	36	44	51	62
2/0	20	35	40	49	57	69
3/0	23	39	45	55	64	78
4/0	25	44	51	62	72	88
250	28	48	55	67	78	95
350	33	56	65	80	92	113
500	39	67	78	95	110	135
750	48	82	95	117	135	165
1000	55	95	110	135	156	191

Installation Instructions:

When installing the Zero-Sequence CTs, ensure the following:

- Only the load carrying conductors pass through the center of the CT. This means L1 + N for 1-phase and L1+ L2 + L3 for 3-phase.
- The power conductors pass through the center of the CT and are preferably bound together to keep the conductors uniformly spaced.
- 3. The power conductors pass perpendicular to the CT and, where practical, continue perpendicular to the CT on both sides of the CT for 3".
- 4. The power conductors should not be installed in a way that allows them to run along the side edges of the CT.
- 5. Where practical, locate the CT away from noise-generating devices such as transformers, frequency converters, etc.



PMA SERIES

Panel Mount Adapters — Retrofits

Example Shown: PMA-3



Example of a panel mount adapter (PMA-3). Relay is for illustrative purposes only and must be purchased separately from adapter plate. For more information on our complete offering of panel mount adapters see the following page.

Description

A variety of protection relay retrofit adapter plates are available for the products listed below. These adapter plates simplify the process of updating electromechanical or poorly functioning existing relays. Consult factory if you have a specific product to replace that is not featured. Adapters are available in either plate style for panel mounting or drawout style depending on the relay being replaced.

Motor, feeder and ground-fault protection upgrades are available for electromechanical or solid state relays that are nearing the end of their life.

Features & Benefits

FEATURES	BENEFITS
Mounting	Fits in existing mounting holes and panel openings
Multiple adapter sizes	Plate style or drawout style adapters are available to fit various outdated relays

Adapter Plates

RELAY TO REPLACE	PANEL MOUNT	NEW RELAY
AB BULLETIN 1406	PMA-14	MPS
FPL-GFRM	PMA-6	SE-701/SE-704
GE S1	PMA-9	MPU-32/FPU-32
GE LODTRAK III	PMA-10	MPU-32
	PMA-13	MPS
GE MULTILIN 169, 269, or 369	PMA-16	MPU-32
	PMA-16	FPU-32
GE MULTILIN 469	PMA-24	MPS
GE MULTILIN P4A	PMA-15	MPU-32/FPU-32
GEC/MCGG	PMA-3	SE-701/SE-704
GE & WESTINGHOUSE FT-11	PMA-12	MPU-32
P&B GOLDS	Contact Factory	FPU-32
WESTINGHOUSE CO9 & CO11	Contact Factory	FPU-32

For a complete list of the Littelfuse Panel Mount Adapter Plates please see next page.

AccessoriesMounting Adapters and Enclosures

PANEL-MOUNT ADAPTERS

	PANEL MOUNT ADAPTERS		
Product	Features	Access	ory For
PMA-2 Adapter Plate	Used when replacing the AB Bulletin 1406.	MP	J-32
PMA-3 Adapter Plate	Used when replacing GEC/MCGG ground-fault relays. Requires PMA-55 or PMA-60.	SE-704 SE-701	
PMA-4 Adapter Plate	Used when replacing the Multilin 139/239.	MP	J-32
PMA-6 Adapter Plate	Used when replacing FPL-GFRM ground-fault relays. Requires PMA-55 or PMA-60.	SE-	701
PMA-7 Adapter Plate	Used when replacing the GE Lodtrak II.	MP	J-32
PMA-8 Adapter Plate	Used when replacing an Atkinson Omser II with an SE-130-Series Monitor.	SE-134C	SE-135
PMA-9 Adapter Plate	Used when replacing relays in the GE S1 Case. Requires PMA-55 or PMA-60.	MPU-32	FPU-32
PMA-10 Adapter Plate	Used when replacing the GE Lodtrak III.	MP	J-32
PMA-12 Adapter Plate	Used when replacing GE and Westinghouse FT-11 relays.	MP	J-32
PMA-13 Adapter Plate	Used when replacing the GE Multilin 169, 269, or 369.	М	PS
PMA-14 Adapter Plate	Used for rough cutouts and when replacing the AB Bulletin 1406.	MPS	
PMA-15 Adapter Plate	Used for rough cutouts and when replacing the GE Multilin P4A.	MPU-32	FPU-32
PMA-16 Adapter Plate PMA-16-RTDB Mounting Bracket	The PMA-16 mounting plate is used when replacing the GE Multilin 169, 269, and 369 relays. The PMA-16-RTDB is a mounting bracket for the optional MPS-RTD Temperature Input Module.	MPU-32	FPU-32
PMA-17 Adapter Plate	Used when replacing Sprecher & Schuh Cet 4.	MP	J-32
PMA-18 Adapter Plate	Used when replacing Sprecher & Schuh Cet 3.	MP	J-32
PMA-21 Adapter Plate	Used when replacing an ABB RACIF.	FPL	J-32
PMA-23 Adapter Plate	Custom mounting plate for FPU-32 to replace 3 Westinghouse C0 relays.	FPU-32	
PMA-24 Adapter Plate	Used when replacing the GE Multilin 469.	MPS	
PMA-55 Adapter Plate	Used to panel mount the SE-601 and SE-701.	SE-601 PGR-4300	SE-701 SE-704
PMA-60 Adapter Plate	Used to panel mount the relay; IP 53 and NEMA 3 rating, tamper resistant.	SE-601 PGR-4300	SE-701 SE-704
MPU-32-SMK Surface-Mount Kit	Used to surface mount the MPU-32 or FPU-32.	MPU-32	FPU-32

Note: Relays are not included with the PMA-Series Panel Mount Adapters.



DIN-RAIL & MOUNTING ADAPTERS

DIN RAIL & MOUNTING ADAPTERS			
Product	Features	Accessory For	
C103PM (AI) DIN Rail	Industry standard 35 mm aluminum or steel DIN rail. C103PM aluminum rail is available in a 36 in. (91.4 cm) length.	Can be used with all DIN-rail compatible units.	
AC700-SMK Mount Adapter	DIN-rail and Surface-mount adapter for back-plane mounting.	EL731	
D0050 DIN-Rail Adapter Clip	Plastic clip allowing DIN-rail mounting of the PGR-8800 and AF0500 Arc-Flash Relay.	AF0500 PGR-8800	
P1023-20 DIN Rail Mount Adaptor	Allows any 2 x 2 in. (50.8 x 50.8 mm) or 2 x 3 in. (50.8 x 76.2 mm) module to be mounted on a 35 mm DIN type rail. Comes complete with mounting hardware (one #10 - 24 x 1.00 screw and one #10 - 24 x 1.25 screw) for 0.75 in. (19 mm) and 1 in. (25.4 mm) thick modules.	Consult the individual datasheet to determine part compatibility.	
P0500-178 Surface Mount Adapter (9,65) (9,65) (18,5 (1,75) (1,70	P0500-178 is surface mountable with 2 Quick Mount Fasteners.	ASXX/DSXX Series Timers	
P0500-179 DIN Rail Mount Adapter 35mm DIN 3 32mm DIN 1 815 (20.70) Inches (Millimeters)	P0500-179 snaps onto DIN Rail.	ASXX/DSXX Series Timers	

AccessoriesMounting Adapters and Enclosures

BRACKETS & CLIPS

BRACKETS & CLIPS							
Product	Features	Accessory For					
Front Panel Mount Kit PANEL OPENING STATE OF THE PANEL OPENING STATE OPENING STATE OF THE PANEL OPENING STATE OF THE PANEL OPENING STATE OPENING STATE OPENING STATE OF THE PANEL OPENING STATE O	Provides an easy method of through-the-panel mounting of 8-pin or 11-pin plug-in timers, flashers, and other controls. May be mounted in panels up to 0.125 in. (3.2 mm) thick. Includes two clamps and two screws.	Series: ARP FS500 LLC4 LLC5 LLC6 PLM PLMU PLR PLS PRLM TDB TDBH TDBL TDI TDIH TDIL TDM TDMB TDMH TDML TDR TDS TDSH TDSL TRB TRDU TRM TRS TRU					
P1023-6 P1023-7 Mounting Brackets Total Control Contr	Provides a convenient method of mounting modules. The 90° orientation of mounting slots makes installation/removal of modules quick and easy. Made from steel with a cadmium surface finish. PART MOUNTING MOUNTING METHOD HOLE SIZE P1023-6 0.19 in. (4.8 mm) #8 (M4 x 0.7) screw P1023-7 0.25 in (6.35 mm) Mini-Pot	Used on many 2" x 2" timers. Refer to individual series datasheet to determine if this accessory is compatible.					
PSCRB8 Hold-down Brackets	Designed for use with P1011-6 socket. Securely mounts 8-pin plug-in controls in any position, and provides protection against vibration. Sold in pairs.	P1011-6					
PSC8 PSC11 Hold-down Clips	Securely mounts plug in controls in any position. Also provides protection against vibration. Select the PSC8 for use with NDS-8, or the PSC11 for use with NDS-11 sockets. Sold in pairs.	NDS-8 Socket NDS-11 Socket					
P1023-2 P Clamp	Removable P clamp bracket for mounting MSM Series timers and FS100 and FS400 Series flashers.	Timers Series: MSM Flasher Series: FS100 FS400					



ENCLOSURES & WATERTIGHT COVERS

ENCLOSURES					
Product	Features	Accessory For			
NGRM-ENC NGR Monitor Control Panel	NEMA 4 painted steel control panel, complete with the SE-325 or SE-330, and a fused 600/480:120 V PT for relay control power. Suitable for indoor or outdoor mounting, CSA certified. When NGR Monitor is back-plane mounted, 22-mm NEMA 4 indicators and reset button are included. Please contact factory for additional information. www.littelfuse.com/ngrm-enc	SE-325 SE-330			
NEMA-3R-L A Enclosure	Metal NEMA-3R electrical box with lenses for viewing the single-phase PumpSaver® status lights. H 6.0" x W 6.0" x D 4.0"	Single-Phase PumpSaver®			
RM-1000-ENCL Enclosure	contacting the RM1000 connections. The enclosure also teature				

WATERTIGHT COVERS					
Product		Features	Accessory For		
MPU-16A-Y92A-96N Watertight Cover		Watertight cover for outdoor applications.	MPU-32 FPU-32		
SE-IP65CVR-G Watertight Cover		Watertight cover. Tamper-resistant. IP65 protection.	SE-134C SE-135 SE-330 SE-330AU SE-330HV SE-400		
SE-IP65CVR-M Watertight Cover		Watertight cover. Tamper-resistant. IP65 protection.	MPS FPS		
SE-MRE-600 Moisture-Resistant Enclosure Kit		Protects the connection terminals from snow and rain in outdoor applications.	ER-600VC ER-1000HV		

Accessories Mounting Adapters and Enclosures

SOCKETS

SOCKETS							
Product		Features	Accessory For				
OT08PC Octal Socket 8-Pin		8-pin 35mm DIN rail or surface mount octal socket. Rated at 10A @ 600VAC and has pressure clamp terminals.	AWG 12 to 22 (3.2 to 0.33 mm²) wire sizes. Consult individual datasheet for compatibility				
NDS-8 Octal Socket 8-Pin Screw terminals with captive wire clamps	8	8-pin 35mm DIN rail or surface mount octal socket. Rated at 10A @ 300VAC. Surface mounted with two #6 (M 3.5 x 0.6) screws or snaps onto a 35 mm DIN rail. A spring mechanism allows easy removal. Uses PSC8 hold-down clips.	(2.45 mr Series: ARP PRLM TDI	vo #14 AV n²) wire s FS500 TDB TDIH TDMH TDSH TRS		LLC5 TDBL TDM TDR TRDU	
P1011-6 Octal Socket 8-Pin		8-pin surface mount socket with binder head screw terminals. Rated at 10A @ 600VAC. UL Listed combination when used with TDM, TDB, TDS Series timers. Uses PSCRB8 hold-down brackets.	Series: ARP PRLM TDR TRM	FS500 TDB TDS TRS	LLC4 TDM TRB TRU	LLC5 TDMB TRDU	
OT11PC Magnal Socket 11-Pin	* * * * * * * * * * * * * * * * * * *	Magnal Sockets are for plug-in units	11-pin F Series: ARP TDBL TDSL TRS	Plug-in ur LLC6 TDMB TRB TRU	TDB TDS TRDU	TDBH TDSH TRM	
SD12-PC Rectangle Socket 12-pin	क के कि के कि	12-pin surface Rectangle Socket.	ACBC-120				
NDS-11 11-pin Magnal Socket Screw terminals with captive wire clamps		11 pin 35 mm DIN rail or surface mount socket. Rated at 10A @ 300VAC. Surface mounted with two #6 (M 3.5 x 0.6) screws or snaps onto a 35 mm DIN rail. A spring mechanism allows easy removal. Uses PSC11 hold-down clips.	AWG 12 (3.2 to 0 Series: ARP TDBL TDSL TRS	to 22 .33 mm²) LLC6 TDMB TRB TRU	wire size TDB TDS TRDU	TDBH TDSH TRM	