

March 1996
 Supersedes Selection Data 29-120N,
 pages 1-2, dated March 1995
 Mailed to: E, D, C/29-100A, 31-400A,
 31-500A

Westinghouse Series C[®] Molded Case Circuit Breakers N-Frame 400-1200 Amperes



Dimensions, Inches (mm)

No. of Poles	Width	Height	Depth
2, 3	8.25 (210)	16 (407)	5.5 (140)
4	11.125 (283)	16 (407)	5.5 (140)

Approximate Shipping Weight, Lbs. (kg)

Breaker Type	Complete Breaker		
	Number of Poles		
	2	3	4
ND, HND, NDC	37 (16.783)	45 (20.412)	58 (26.308)

STANDARDS

Series C molded case circuit breakers are designed to conform with the following standards:

- Australian Standard AS 2184, Molded Case Circuit Breakers
- British Standards Institution Standard BS 4752: Part 1, Switchgear and Control Gear Part 1: Circuit Breakers
- Canadian Standards Association Standard C22.2 No. 5, Service Entrance and Branch Circuit Breakers
- International Electrotechnical Commission Recommendations IEC 947-2, Circuit Breakers
- Japanese T-Mark Standard, Molded Case Circuit Breakers
- National Electrical Manufacturers Association Standards Publication No. AB1-1975, Molded Case Circuit Breakers
- South African Bureau of Standards, Standard SABS 156, Standard Specification for Molded Case Circuit Breakers
- Swiss Electro-Technical Association Standard SEV 947-2, Safety Regulations for Circuit Breakers
- Underwriters Laboratories, Inc., Standard UL 489, Molded Case Circuit Breakers and Circuit Breaker Enclosures, Including Marine Circuit Breakers File E7819
- Union Technique de l'Electricite Standard NF C 63-120, Low Voltage Switchgear and Control Gear Circuit Breaker Requirements
- Verband Deutscher Elektrotechniker (Association of German Electrical Engineers) Standard VDE 0660, Low Voltage Switchgear and Control Gear, Circuit Breakers

INTERRUPTING CAPACITY RATINGS

UL489 Interrupting Capacity Ratings^①

Circuit Breaker Type	Number of Poles	Interrupting Capacity (Symmetrical Amperes) (kA)				
		Volts Ac (50/60Hz)				
		240	277	480	600	125
ND, CND ^②	2, 3, 4	65	.....	50	25	.....
HND, CHND ^②	2, 3, 4	100	.....	65	35	.....
NDC, CNDC ^②	2, 3, 4	200	.....	100	50	.....

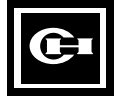
IEC 947-2 Interrupting Capacity Ratings^①

Circuit Breaker Type	Number of Poles	Interrupting Capacity (Symmetrical Amperes)			
		Volts Ac (50/60Hz)			
		240	415	690	
ND, CND ^②	2, 3, 4	I_{cu}	85	50	20
		I_{cs}	85	50	10
HND, CHND ^②	2, 3, 4	I_{cu}	100	70	25
		I_{cs}	100	50	13
NDC, CNDC ^②	2, 3, 4	I_{cu}	200	100	35
		I_{cs}	100	50	18

Conformance with these standards satisfies most local and international codes, assuming user acceptability and simplified application.

Series C molded case circuit breakers equal or exceed Federal Specification Classification W-C-375b requirements for the particular class associated with the circuit breaker frame being considered.

^① Utilization Category A circuit breakers.
^② 100% rated breakers.



Westinghouse Series C Molded Case Circuit Breakers, N-Frame, 400-1200 Amperes

CATALOG NUMBERING SYSTEMS

This information is presented only as an aid to understanding catalog numbers. It is not to be used to build catalog numbers for circuit breakers or trip units.

Circuit Breaker/Frame Catalog Numbers

ND	3	12	T33	W
Circuit Breaker/Frame Type	Number of Poles	Circuit Breaker/Frame Rating	Trip Type	Suffix
ND	2: 2 Poles	8: 800 Amp	T32: LSI	E: 100% R.P. protected (4-Pole)
HND	3: 3 Poles	12: 1200 Amp	T33: LS	EH: 50% R.P. protected (4-Pole)
NDC	4: 4 Poles		T35: LSG	K: High Magnetic Molded Case Switch
CND			T36: LSIG	W: Without Terminals
CHND			T76: LSIG	X: Load Only Terminals
CNDC			T77: LSIA	Y: Line Only Terminals
			T106: LSIG	
			T107: LSIA	

Note: All Series C N frame circuit breakers are suitable for reverse feed.

Further Information	
Application Data	AD 29-160
Time/Current Curves	AD 29-167N
Dimensions	DS 29-170N

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Westinghouse & Cutler-Hammer Products
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N-FRAME DIGITRIP SELECTION GUIDE

Trip Unit Type	Digitrip RMS 310		Digitrip OPTIM 750	Digitrip OPTIM 1050
RMS Sensing	Yes		Yes	Yes
Breaker Type				
Frame	N		N	N
Ampere Range	400A-1200A		400A-1200A	400A-1200A
Interrupting Rating @ 480V	50, 65, 100 (kA)		50, 65, 100 (kA)	50, 65, 100 (kA)
Protection				
Ordering Options	LS, LSG	LSI, LSIG	LSI(A), LSIG	LSI(A), LISG
Fixed Rated Plug (I _n)	Yes	Yes	Yes	Yes
Over Temperature Trip	Yes	Yes	Yes	Yes
Long Delay Protection (L)				
Adjustable Rating Plug (I _n)	Yes	Yes	No	No
Long Delay Pick Up	0.5-1.0(I _n) ^①	0.5-1.0(I _n) ^①	0.4-1.0 x (I _n)	0.4-1.0 x (I _n)
Long Delay Time I ² T	12 Secs.	12 Secs.	2-24 Secs.	2-24 Secs.
Long Delay Time I ⁴ T	No	No	1-5 Secs.	1-5 Secs.
Long Delay Thermal Memory	Yes	Yes	Yes	Yes
High Load Alarm	No	No	0.5-1.0 x I _r	0.5-1.0 x I _r
Short Delay Protection (S)				
Short Delay Pick Up	200-800% x (I _n)	200-800% x (I _n)	150-800% x (I _r)	150-800% x (I _r)
Short Delay Time I ² T	100ms	No	100-500ms	100-500ms
Short Delay Time Flat	No	Inst-300ms	100-500ms	100-500ms
Short Delay Time Zone Selective Interlocking	No	No	Yes	Yes
Instantaneous Protection (I)				
Instantaneous Pick Up	No	200-800% x (I _n)	200-800% x (I _n)	200-800% x (I _n)
Discriminator	No	No	Yes	Yes
Instantaneous Override	Yes	Yes	Yes	Yes
Ground Fault Protection (G)				
Ground Fault Alarm	No	No	20-100% (I _s)	20-100% (I _s)
Ground Fault Pick Up	Varies by Frame ^②	Varies by Frame ^②	20-100% (I _s)	20-100% (I _s)
Ground Fault Delay I ² T	No	No	100-500ms	100-500ms
Ground Fault Delay Flat	Inst-500ms	Inst-500ms	100-500ms	100-500ms
Ground Fault Zone Selective Interlocking	No	No	Yes	Yes
Ground Fault Thermal Memory	Yes	Yes	Yes	Yes
System Diagnostics				
Cause of Trip LEDs	No	No	Yes	Yes
Magnitude of Trip Information	No	No	Yes	Yes
Remote Signal Contacts	No	No	Yes	Yes
System Monitoring				
Digital Display	No	No	Yes ^②	Yes ^②
Current	No	No	Yes	Yes
Power and Energy	No	No	No	Yes
Power Quality-Harmonics	No	No	No	Yes
Power Factor	No	No	No	Yes
Communications				
IMPACC	No	No	Yes	Yes
Testing				
Testing Method	Test Set		Optimizer, BIM, IMPACC	Optimizer, BIM, IMPACC

① Adjust by Rating Plug
 ② By Optimizer/BIM

BIM = Breaker Interface Module
 (A) = GF Alarm

I_s = Sensor Rating
 I_n = Rating Plug
 I_r = LDPU Setting x In

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Series C[®] Molded Case Circuit Breakers N-Frame 400-1200 Amperes

600-VOLT AC DIGITRIP OPTIM^① ELECTRONIC CIRCUIT BREAKER WITH INTERCHANGEABLE RATING PLUG

Order as individual components: Breaker Frame (which includes Trip Unit) and Rating Plug

Maximum Continuous Ampere Rating @ 40°C	Circuit Breaker Frame Only				Digitrip OPTIM Rating Plug Only	
	Standard Interrupting Capacity 600-Volt Ac Rated 50 kAIC @ 480 Vac				Ampere Rating	Fixed Rating Plugs
	L-Adjustable Long Delay Pickup (I _r) With Adjustable Long Delay Time (I ² t or I ⁴ t Response) ^② S-Adjustable Short Delay Pickup With Adjustable Short Delay Time (I ² t or Flat Response) I-Adjustable Instantaneous Pickup G-Adjustable Ground Fault Pickup With Adjustable Ground Fault Time Delay (I ² t or Flat Response) A-Adjustable Ground Fault Alarm With Adjustable Ground Fault Time Delay (I ² t or Flat Response)					
	LSIA 750	LSIG 750	LSIA 1050	LSIG 1050		
CATALOG NUMBER	CATALOG NUMBER	CATALOG NUMBER	CATALOG NUMBER	CATALOG NUMBER		
3-Pole						
800A	ND3800T77W	ND3800T76W	ND3800T107W	ND3800T106W	400 450 500 550 600 700 800	ORPN80A400 ORPN80A450 ORPN80A500 ORPN80A550 ORPN80A600 ORPN80A700 ORPN80A800
1200A	ND312T77W	ND312T76W	ND312T107W	ND312T106W	600 700 800 1000 1200	ORPN12A600 ORPN12A700 ORPN12A800 ORPN12A100 ORPN12A120

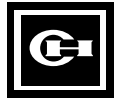
600-VOLT AC DIGITRIP OPTIM^① ELECTRONIC CIRCUIT BREAKER WITH INTERCHANGEABLE RATING PLUG

Order as individual components: Breaker Frame (which includes Trip Unit) and Rating Plug

Maximum Continuous Ampere Rating @ 40°C	Circuit Breaker Frame Only				Digitrip OPTIM Rating Plug Only	
	High Interrupting Capacity 600-Volt Ac Rated 65 kAIC @ 480 Vac				Ampere Rating	Fixed Rating Plugs
	L-Adjustable Long Delay Pickup (I _r) With Adjustable Long Delay Time (I ² t or I ⁴ t Response) ^② S-Adjustable Short Delay Pickup With Adjustable Short Delay Time (I ² t or Flat Response) I-Adjustable Instantaneous Pickup G-Adjustable Ground Fault Pickup With Adjustable Ground Fault Time Delay (I ² t or Flat Response) A-Adjustable Ground Fault Alarm With Adjustable Ground Fault Time Delay (I ² t or Flat Response)					
	LSIA 750	LSIG 750	LSIA 1050	LSIG 1050		
CATALOG NUMBER	CATALOG NUMBER	CATALOG NUMBER	CATALOG NUMBER	CATALOG NUMBER		
3-Pole						
800A	HND3800T77W	HND3800T76W	HND3800T107W	HND3800T106W	400 450 500 550 600 700 800	ORPN80A400 ORPN80A450 ORPN80A500 ORPN80A550 ORPN80A600 ORPN80A700 ORPN80A800
1200A	HND312T77W	HND312T76W	HND312T107W	HND312T106W	600 700 800 1000 1200	ORPN12A600 ORPN12A700 ORPN12A800 ORPN12A100 ORPN12A120

^① 1A/1B auxiliary switch and 1 Make/1 Break alarm switch supplied with breaker as standard.

^② Long delay I⁴t response selection limits short delay time to flat response.



Series C Molded Case Circuit Breakers, N-Frame, 400-1200 Amperes

600-VOLT AC DIGITRIP OPTIM^① ELECTRONIC CIRCUIT BREAKER WITH INTERCHANGEABLE RATING PLUG

Order as individual components: Breaker Frame (which includes Trip Unit) and Rating Plug

Maximum Continuous Ampere Rating @ 40°C	Circuit Breaker Frame Only				Digitrip OPTIM Rating Plug Only	
	Ultra High Interrupting Capacity 600-Volt Ac Rated 100 kAIC @ 480 Vac				Ampere Rating	Fixed Rating Plugs
	L-Adjustable Long Delay Pickup (I _L) With Adjustable Long Delay Time (I ² t or I ⁴ t Response) ^② S-Adjustable Short Delay Pickup With Adjustable Short Delay Time (I ² t or Flat Response) I-Adjustable Instantaneous Pickup G-Adjustable Ground Fault Pickup With Adjustable Ground Fault Time Delay (I ² t or Flat Response) A-Adjustable Ground Fault Alarm With Adjustable Ground Fault Time Delay (I ² t or Flat Response)					
	LSIA 750	LSIG 750	LSIA 1050	LSIG 1050		
CATALOG NUMBER	CATALOG NUMBER	CATALOG NUMBER	CATALOG NUMBER		CATALOG NUMBER	
3-Pole						
800A	NDC3800T77W	NDC3800T76W	NDC3800T107W	NDC3800T106W	400 450 500 550 600 700 800	ORPN80A400 ORPN80A450 ORPN80A500 ORPN80A550 ORPN80A600 ORPN80A700 ORPN80A800
1200A	NDC312T77W	NDC312T76W	NDC312T107W	NDC312T106W	600 700 800 1000 1200	ORPN12A600 ORPN12A700 ORPN12A800 ORPN12A100 ORPN12A120

① 1A/1B auxiliary switch and 1 Make/1 Break alarm switch supplied with breaker as standard.
 ② Long delay I⁴t response selection limits short delay time to flat response.

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Series C[®] Molded Case Circuit Breakers N-Frame 400-1200 Amperes

100% RATED 600-VOLT AC DIGITRIP OPTIM^① CIRCUIT BREAKERS WITH INTERCHANGEABLE RATING PLUG

Order as individual components: Breaker Frame (which includes Trip Unit) and Rating Plug

Maximum Continuous Ampere Rating @ 40°C	Circuit Breaker Frame Only				Digitrip OPTIM Rating Plug Only	
	Standard Interrupting Capacity 600-Volt Ac Rated 50 kAIC @ 480 Vac				Ampere Rating	Fixed Rating Plugs
	L-Adjustable Long Delay Pickup (I ₁) With Adjustable Long Delay Time (I ² t or I ⁴ t Response) ^② S-Adjustable Short Delay Pickup With Adjustable Short Delay Time (I ² t or Flat Response) I-Adjustable Instantaneous Pickup G-Adjustable Ground Fault Pickup With Adjustable Ground Fault Time Delay (I ² t or Flat Response) A-Adjustable Ground Fault Alarm With Adjustable Ground Fault Time Delay (I ² t or Flat Response)					
	LSIA 750	LSIG 750	LSIA 1050	LSIG 1050		
CATALOG NUMBER	CATALOG NUMBER	CATALOG NUMBER	CATALOG NUMBER	CATALOG NUMBER		
3-Pole						
800A	CND3800T77W	CND3800T76W	CND3800T107W	CND3800T106W	400 450 500 550 600 700 800	ORPN80A400 ORPN80A450 ORPN80A500 ORPN80A550 ORPN80A600 ORPN80A700 ORPN80A800
1200A	CND312T77W	CND312T76W	CND312T107W	CND312T106W	600 700 800 1000 1200	ORPN12A600 ORPN12A700 ORPN12A800 ORPN12A100 ORPN12A120

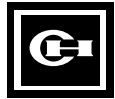
100% RATED 600-VOLT AC DIGITRIP OPTIM^① CIRCUIT BREAKERS WITH INTERCHANGEABLE RATING PLUG

Order as individual components: Breaker Frame (which includes Trip Unit) and Rating Plug

Maximum Continuous Ampere Rating @ 40°C	Circuit Breaker Frame Only				Digitrip OPTIM Rating Plug Only	
	High Interrupting Capacity 600-Volt Ac Rated 65 kAIC @ 480 Vac				Ampere Rating	Fixed Rating Plugs
	L-Adjustable Long Delay Pickup (I ₁) With Adjustable Long Delay Time (I ² t or I ⁴ t Response) ^② S-Adjustable Short Delay Pickup With Adjustable Short Delay Time (I ² t or Flat Response) I-Adjustable Instantaneous Pickup G-Adjustable Ground Fault Pickup With Adjustable Ground Fault Time Delay (I ² t or Flat Response) A-Adjustable Ground Fault Alarm With Adjustable Ground Fault Time Delay (I ² t or Flat Response)					
	LSIA 750	LSIG 750	LSIA 1050	LSIG 1050		
CATALOG NUMBER	CATALOG NUMBER	CATALOG NUMBER	CATALOG NUMBER	CATALOG NUMBER		
3-Pole						
800A	CHND3800T77W	CHND3800T76W	CHND3800T107W	CHND3800T106W	400 450 500 550 600 700 800	ORPN80A400 ORPN80A450 ORPN80A500 ORPN80A550 ORPN80A600 ORPN80A700 ORPN80A800
1200A	CHND312T77W	CHND312T76W	CHND312T107W	CHND312T106W	600 700 800 1000 1200	ORPN12A600 ORPN12A700 ORPN12A800 ORPN12A100 ORPN12A120

^① 1A/1B auxiliary switch and 1 Make/1 Break alarm switch supplied with breaker as standard.

^② Long delay I⁴t response selection limits short delay time to flat response.



Series C Molded Case Circuit Breakers, N-Frame, 400-1200 Amperes

100% RATED 600-VOLT AC DIGITRIP OPTIM^① CIRCUIT BREAKERS WITH INTERCHANGEABLE RATING PLUG

Order as individual components: Breaker Frame (which includes Trip Unit) and Rating Plug

Maximum Continuous Ampere Rating @ 40°C	Circuit Breaker Frame Only				Digitrip OPTIM Rating Plug Only	
	Ultra High Interrupting Capacity 600-Volt Ac Rated 100 kAIC @ 480 Vac				Ampere Rating	Fixed Rating Plugs
	L-Adjustable Long Delay Pickup (I _L) With Adjustable Long Delay Time (I ² t or I ⁴ t Response) ^②					
	S-Adjustable Short Delay Pickup With Adjustable Short Delay Time (I ² t or Flat Response)					
I-Adjustable Instantaneous Pickup						
G-Adjustable Ground Fault Pickup With Adjustable Ground Fault Time Delay (I ² t or Flat Response)						
A-Adjustable Ground Fault Alarm With Adjustable Ground Fault Time Delay (I ² t or Flat Response)						
LSIA 750		LSIG 750		LSIA 1050		LSIG 1050
CATALOG NUMBER		CATALOG NUMBER		CATALOG NUMBER		CATALOG NUMBER
3-Pole						
800A	CNDC3800T77W	CNDC3800T76W	CNDC3800T107W	CNDC3800T106W	400	ORPN80A400
					450	ORPN80A450
					500	ORPN80A500
					550	ORPN80A550
					600	ORPN80A600
					700	ORPN80A700
800	ORPN80A800					
1200A	CNDC312T77W	CNDC312T76W	CNDC312T107W	CNDC312T106W	600	ORPN12A600
					700	ORPN12A700
					800	ORPN12A800
					1000	ORPN12A100
					1200	ORPN12A120

① 1A/1B auxiliary switch and 1 Make/1 Break alarm switch supplied with breaker as standard.
 ② Long delay I⁴t response selection limits short delay time to flat response.

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Series C[®] N-Frame Termination Accessories

LINE AND LOAD TERMINALS

Ordering Information

N-Frame circuit breakers use Cu/Al terminals as standard. When optional copper or Cu/Al terminals are required, order by catalog number. Specify if factory installation is required.

Line and Load Terminal

Maximum Breaker Amps	Terminal Body Material	Wire Type	AWG Wire Range/No. Conductors	Metric Wire Range mm ²	CATALOG NUMBERS
Standard Cu/Al Pressure Terminals					
700	Aluminum	Cu/Al	(2) 1-500 MCM	50-300	TA700NB1
1000	Aluminum	Cu/Al	(3) 3/0-400 MCM	95-185	TA1000NB1 ^①
1200	Aluminum	Cu/Al	(4) 4/0-500 MCM	120-300	TA1200NB1 ^①
1200	Aluminum	Cu/Al	(3) 500-750 MCM	300-400	TA1201NB1 ^②
Optional Copper and Cu/Al Pressure Type Terminals					
700	Copper	Cu	(2) 2/0-500 MCM	70-300	T700NB1
1000	Copper	Cu	(3) 3/0-500 MCM	95-300	T1000NB1
1200	Copper	Cu	(4) 3/0-400 MCM	95-185	T1200NB3

KEEPER NUT

Not required on N-Frame. Terminals are threaded.

^① Terminal rating is Al9Cu.
^② Terminal rating is Al7Cu.

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Series C[®] N-Frame OPTIM System Components

BREAKER INTERFACE MODULE (BIM)



The Breaker Interface Module (BIM) is a panel mounted user interface device that is mounted on the front of an electrical assembly or at a remote location. The BIM is used to access, configure, test and display information for OPTIM trip units and other devices. The BIM consists of four display windows, eight function buttons, eighteen LED's and a graphical time/current curve to provide breaker status, operational information, protection status and energy monitoring. A 30 Vdc power supply is required to provide power to the BIM. This is supplied by the switchboard builder to Cutler-Hammer specifications. The BIM is a member of the IMPACC family of communicating devices that connects OPTIM trip units, Digitrip RMS 810/910 trip units and energy sentinels as a subnetwork system. The BIM can also be connected to a main network via a PONI module to IMPACC Series III software. For detailed information on the BIM refer to SA-12137.

Ordering Information

CATALOG NUMBER
BIM

DIGITRIP OPTIMIZER

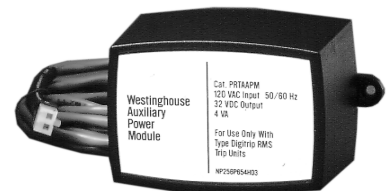


The Digitrip OPTIMizer is a hand held programmer that is used to access, configure, test and display information from OPTIM trip units. The OPTIMizer plugs into the front of an OPTIM trip unit via an eight-pin telephone jack and is powered by a nine-volt battery. In addition, a 3-pin Incom network connection is also provided to program other OPTIM devices on the system. An Auxiliary Power Module connection is provided to provide control power to perform a trip test when control power is not present at the breaker. The OPTIMizer is supplied as a standard package to include the programmer, the eight-pin connection cord, battery and carrying case. The network connection cord and Auxiliary Power Module are optional.

Ordering Information

CATALOG NUMBER
OPTIMIZER – Standard Package
ICC – Incom Connection Cord

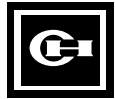
AUXILIARY POWER MODULE



The Auxiliary Power Module is a power supply requiring 120 Vac input at 50 or 60 Hz that provides a 32 Vdc output. The Auxiliary Power Module provides control power for testing an OPTIM trip unit when other means of control power is not available. The Auxiliary Power Module connects into the top of the Digitrip OPTIMizer via a keyed receptacle. The main application for the Auxiliary Power Module would be for the testing of a stand alone non-communicating OPTIM breaker that ordinarily would not have control power.

Ordering Information

CATALOG NUMBER
PRTAAPM



Series C N-Frame External Accessories

GROUND FAULT ALARM UNIT

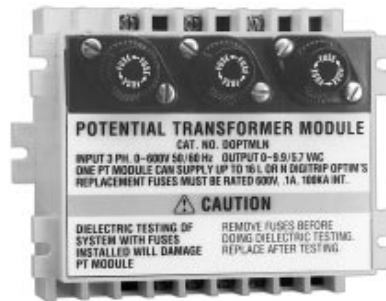


The Ground Fault Alarm Unit is a remotely mounted device with a combination indicating light/test button that will light when the breaker trips or alarms on ground fault. The Ground Fault Alarm Unit requires a separate 120 Vac power source to power the light and the internal relay which has 1 N.O. and 1 N.C. contacts for remote indication. The Ground Fault Alarm Unit can be panel mounted for ordering with an optional face mounting bracket.

Ordering Information

CATALOG NUMBER
GFAU – Ground Fault Alarm Unit
STYLE NUMBER
Face Mounting Bracket 1264C67G01

POTENTIAL TRANSFORMER MODULE



The Potential Transformer Module is required for Series C, Digitrip OPTIM 1050, to provide a voltage input to allow the trip unit to monitor power and energy as well as power factor. The Potential Transformer Module is a 6VA transformer with a primary voltage input of up to 600V line to line. Three 0.1 ampere fuses are provided on the primary of the transformer and can be used for isolation purposes during dielectric testing. The device is normally panel mounted and can feed up to 16 OPTIM trip units.

Ordering Information

CATALOG NUMBER
DOPTMLN

IMPACC SOFTWARE



Series C Digitrip OPTIM trip units can communicate back to a central Personal Computer by installing Cutler-Hammer Series III software. In addition other software packages are available to allow the user to configure the trip units as well as perform online coordination. For more information on this please refer to IMPACC sales aid SA-11998.

30 Vdc Power Supply

Note: A 30 Vdc power supply is required for all Digitrip OPTIM trip units that are required to communicate either on the main IMPACC network or as a subnetwork to a BIM. Typically one 30 Vdc power supply is required per switchboard and can provide control power to a BIM and up to 16 OPTIM trip units. The 30 Vdc power supply can be an "off the shelf" power supply and is normally provided by the switchboard manufacturer to Cutler-Hammer recommendations.

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