DET-195 Data Sheet

WavePro[™] Low Voltage Power Circuit Breakers with Power+[™] Enhanced MicroVersaTrip Plus[™] and MicroVersaTrip PM[™] Trip Units

Product Overview

WavePro Low Voltage Power Circuit Breaker

The new GE line of WavePro Low Voltage Power Circuit Breakers is intended for use in commercial, industrial, and utility applications. Built to withstand intense service conditions, these circuit breakers provide the ultimate in system selectivity because of their high withstand capabilities. These circuit breakers are UL listed and meet the ANSI standards for low-voltage power circuit breakers. The WavePro line consists of six frame sizes with current ratings of 800 to 5000 amperes and short-circuit ratings through 200,000 amperes.

Power+ Trip Unit

The Power+ trip unit is a new addition to the list of trip units available on GE low voltage power circuit breakers. It provides the same true RMS sensing as the MicroVersaTrip trip units. The liquid crystal display and keypad are replaced by plug-in modules and rotary switches. The plug-in module provides optional LED targets for overload, short circuit and ground fault trips. View and reset push buttons are also provided to monitor status, including a battery check LED. The rating plug module serves the dual purpose of providing the trip rating for the circuit breaker as well as ground fault protection when required. All pickup and delay settings are selected with detented rotary switches.

Enhanced MicroVersaTrip Plus Trip Unit

The Enhanced MicroVersaTrip Plus trip unit contains a digital liquid crystal display with a five-button keypad for local setup and readout of trip settings. These enhanced trip units contain a lithium battery for cold setup capability and viewing of targets without external power. A three-phase ammeter and trip indicators are standard. A sealable cover in the breaker escutcheon provides a tamper-resistant installation.

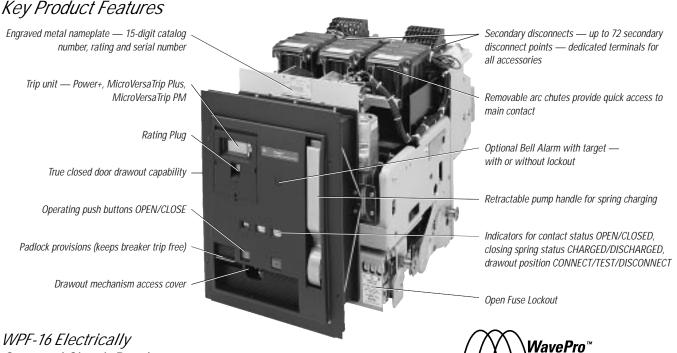
The trip unit digitally measures the current waveform in each phase to determine the true RMS value of the current, regardless of the wave shape. MicroVersaTrip Plus trip units provide accurate, predictable overload and short-circuit protection for distribution systems that include variable-speed drives, rectifiers, induction heating, and other loads that cause high harmonic distortion, as well as standard circuits. The wide range of trip characteristics allows maximum breaker-tobreaker selectivity and custom load protection. Shorttime and ground-fault functions include the flexibility of coordination with or without I2t ramp.

Enhanced MicroVersaTrip PM Trip Unit

The enhanced MicroVersaTrip (MVT) PM trip unit adds power management system capability, including advanced metering and protective relaying to the basic functions of the MVT Plus. The MVT PM can be interfaced with either Modbus RTU or Ethernet TCP/IP compatible systems.

Low Voltage

Power Circuit Breakers



Operated Circuit Breaker





Breaker Features

- Designed to meet ANSI C37.13, C37.16, C37.17 and tested to ANSI C37.50
- Listed and labeled to UL-1066 and CSA C22.2
- 100% rated, 40°C room ambient temperature
- Six frame sizes: 800, 1600, 2000, 3200, 4000, 5000
- Integral spring charging handle standard on manual and electrically operated breakers
- Improved breaker rating rejection feature
- Trip unit is mounted in the breaker escutcheon, "thru the door" access

- True closed-door drawout for maximum operator safety
- Breaker drawout position indicator in the escutcheon
- Up to 72 secondary disconnect points accessories have dedicated wiring points
- Choice of three trip units
- Short circuit ratings through 200,000 amperes rms symmetrical
- Metal frame construction provides rigidity and endurance
- Easy access to main components to facilitate
- inspection and maintenance
- Optional "power management ready" for easy field upgrade

Power+[™], MicroVersaTrip Plus[™] and MicroVersaTrip PM[™] Trip Unit Characteristics

			Long-time	Short-time		
Frame	Max.	Sensor	Long Time (LT)	1		
Size	Amp	Rating	(Pickup)	Delay	Pickup	Delay
	Rating	(Amps)	Multiple of Rating Plug Amps	[Band]	(Multiple of Long Time)	[Band]
		(CT)	(In)	(Seconds)	(LT)	(Seconds)
WPS-08 / WPH-08			Power+		Power+	
WPX-08 / WPF-08	800	150, 400, 800	0.5 thru 1.1 in		1.5, 2.0, 2.5, 3.0, 4.0,	$^{\textcircled{1}}$ I 2 T in
WPS-16 / WPH-16	1600	800, 1600	in steps of 0.1	[1] [2] [3] [4]	5.0, 7.0, 9.0	0.40
WPF-16				2.4, 4.9, 9.8, 20		
WPS-20	2000	2000				² I ² T out
WPS-32 / WPH-32	3200	3200	MVT Plus/PM		MVT Plus/PM	[1] [2] [3]
WPS-40	4000	4000	0.5 thru 1.1 in		1.5 thru 9.0	.10, .21, .35
WPS-50	5000	5000	in steps of 0. 05		in steps of 0.5	

	Adjustable	Adjustable	Ground Fault		
Frame Size	Instantaneous Pickup without ST (Multiple of Rating Plug Amps) (In)	Instantaneous Pickup with ST (Multiple of Rating Plug Amps) (In)	Pickup (Multiple of Sensor Amp rating) (CT)	Delay with I²T (Seconds)	Delay without I²T [Band] (Seconds) ③
WPS-08 / WPH-08 WPX-08 / WPF-08 WPS-16 / WPH-16 WPF-16 WPS-20	Power+ 1.5, 2.0, 3.0, 5.0, 7.0, 9.0, 10.0	Power+ 1.5, 2.0, 3.0, 5.0, 7.0, 9.0, 10.0, 13.0, 15.0 MVT Plus/PM 1.5 thru 15.0 in steps of 0.5	Power+ .20, .25, .30, .35, .40, .45, .50, .60 MVT Plus/PM 0.20 thru 0.60 in steps of 0.01	.44 at 200%	
WPS-32 / WPH-32	MVT Plus/PM 1.5 thru 10.0 in steps of 0.5	Power+ 1.5, 2.0, 3.0, 5.0, 7.0, 9.0, 10.0, 13.0 MVT Plus/PM 1.5 thru 13.0 in steps of 0.5	Power+ .20, .22, .24, .26, .28, .30, .34, .37 MVT Plus/PM 0.20 thru 0.37 in steps of 0.01	of pickup at lower limit of band	[1] [2] [3] .10, .21, .35
WPS-40	Power+ 1.5, 2.0, 3.0, 5.0, 7.0, 9.0 MVT Plus/PM 1.5 thru 9.0 in steps of 0.5	Power+ 1.5, 2.0, 3.0, 5.0, 7.0, 9.0 MVT Plus/PM 1.5 thru 9.0 in steps of 0.5	Power+ .20, .22, .24, .26, .28, .30 MVT Plus/PM 0.20 thru 0.30 in steps of 0.01	*	
WPS-50 ④	MVT Plus/PM 1.5 thru 7.0 in steps of 0.5	MVT Plus/PM 1.5 thru 7.0 in steps of 0.5	MVT Plus/PM 0.20 thru 0.24 in steps of 0.01		

① Time delay shown at 600% of current setting at lower limit of band.

⁽²⁾ Time delay shown at lower limit of each band. All pickup tolerances are ± 10%.

 $\ensuremath{\textcircled{3}}$ Time delay shown at lower limit of band. Ground fault pick up not to exceed 1200 amps.

Power+ not available on 5000 amp (WPS-50) circuit breaker.

- In or X = Rating plug amps
- CT or S = Sensor amp rating
- LT or C = Long-time current setting
 - ST = Short time characteristic

		Trip Ur	nit Suffix	
Function	Description	M (Metering)	PM (Metering & Relaying)	
Amperes (A)	Selectable phase current, ±2.0%	Х	х	
Voltage (V)	L-L or L-N Volts, ±1.5%	Х	Х	
Energy (kWh, MWh)	Total energy usage on breaker, ±3.5%	Х	Х	
Real Power (kW)	L-L or L-N Power, ±3.5%	Х	Х	
Frequency (Hz)	Circuit Frequency, ±1 Hz	Х	Х	
Undervoltage Trip	Adjustable pickup: 50-90%; adjustable delay: 1-15 s, OFF		Х	
Overvoltage Trip	Adjustable pickup: 110-150%; adjustable delay: 1-15 s, OFF		Х	
Voltage Unbalance	Adjustable pickup: 10-50%; adjustable delay: 1-15 s, OFF		Х	
Current Unbalance	Adjustable pickup: 10-50%; adjustable delay: 1-15 s, OFF		Х	
Power Reversal	Adjustable pickup: 10-990 kW; adjustable delay: 1-15 s, OFF		Х	
Power Direction	Setup as line-to-load or load-to-line		Х	
Communication		Х	Х	

Enhanced MicroVersaTrip PM[™] Trip Unit Features (All Frames)

Product Specifications WavePro Breaker Interrupting Ratings

Deted AC			Short-Circuit RMS Symmetrical kA			
Rated AC Voltage, Nominal (max)	Breaker Type	Frame Size (amps)	Short-Time Withstand	With Instantaneous Trip	Without Instantaneous Trip	
	WPS-08	800	30	30	30	
	WPH-08	800	42	42	42	
	WPX-08	800	50	50	50	
600	WPS-16	1600	42	42	42	
	WPH-16	1600	65	65	65	
(635)	WPS-20	2000	65	65	65	
	WPS-32	3200	65	65	65	
	WPH-32	3200	85	85	85	
	WPS-40	4000	85	85	85	
	WPS-50	5000	85	85	85	
	WPS-08	800	30	30	30	
	WPH-08	800	42	42	42	
	WPX-08	800	65	65	65	
480	WPS-16	1600	50	50	50	
	WPH-16	1600	65	65	65	
(508)	WPS-20	2000	65	65	65	
	WPS-32	3200	65	65	65	
	WPH-32	3200	85	85	85	
	WPS-40	4000	85	85	85	
	WPS-50	5000	85	85	85	
	WPS-08	800	30	42	30	
	WPH-08	800	42	50	42	
	WPX-08	800	65	65	65	
240	WPS-16	1600	50	65	50	
	WPH-16	1600	65	65	65	
(254)	WPS-20	2000	65	65	65	
	WPS-32	3200	65	85	65	
	WPH-32	3200	85	130	85	
	WPS-40	4000	85	130	85	
	WPS-50	5000	85	130	85	

Fused Breaker Ratings (Max. 600 Vac. 50/60 Hz)

Breaker Type	Frame Size (amps)	٦ Fuse R Min.	Interrupting Rating RMS Symmetrical kA	
WPF-08	800	300	1600	200
WPF-16	1600	450	2500	200
WPS-202	2000	2000	2500	200
WPS-322	3200	2000	4000	200
WPS-402	4000	2000	5000	200
WPS-502	5000	2000	5000	200

[®] The maximum fuse rating is the largest fuse that tests show will result in proper performance of the breaker and fuse in combination under short-circuit conditions. Only Gould-Shawmut fuses should be used for proper coordination.

Fuses are mounted on separate fuse roll-out element.

Shipping Weight

Draw-Out Breaker	Net (lbs)				
Element	Manual	Electrical			
WPS/WPH/WPX-08	200	205			
WPF-08	245	250			
WPS/WPH-16	210	215			
WPF-16	255	260			
WPS-20	220	225			
WPS/WPH-32	475	485			
WPS-40	535	545			
WPS-50	575	585			

Operating Time (Cycles on 60 Hz Base; All Frame Sizes)

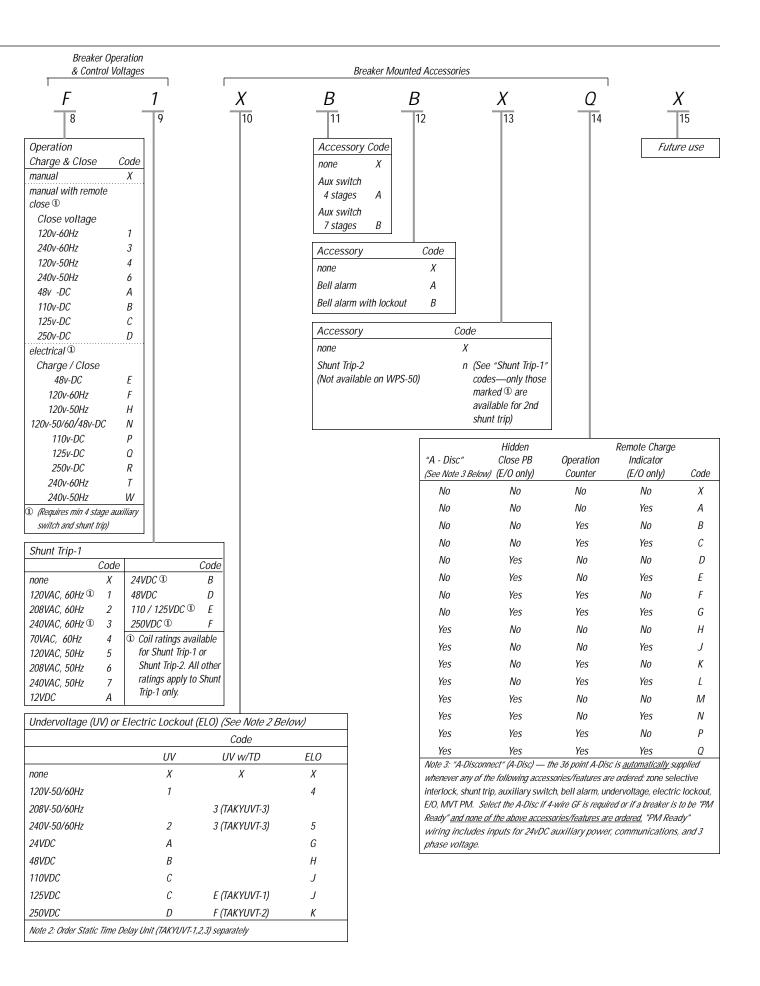
Closing electrically

Time from energizing closing circuit until contacts touch__5 Open (maximum clearing time)

With instantaneous overcurrent trip	3
With shunt trip	3.5

WavePro Breaker Catalog Number Guide (Catalog number stamped on breaker nameplate) For identifying exact replacement WavePro breakers and verifying ratings and features of the circuit breaker

	Equipment Usag	ge	Frame Sizes & Interrup	ting Rating	ľ		Trip Unit	Type, Chara	octeristics	& Trip Rat	ing	Т
Ń	V	F	2	D		Α			0		D	
Ť	1	2	3	4		5		-	6			
	•			'		ľ			ľ		'	
Jsage		Code		· · ·	Unit type			Code				
	AV3 Access Equipn/				e (non-autom	natic)		X				
DEM Equipn	ment (Substructure E	Based) WS			Plus			A R				
					「M (metering 「PM (relayin	-		ns) B				
nterrupting Fuse Type	g Capability/		Code		ommunicatio		ig	С				
Standard	(ex. WPS)		1		er + 1			G				
High	(ex. WPH)		2		er + (w/GF) 🤇			H				
iigii Extended	(ex. WPX)		3		er + (w/Defe		j (1)(2)(3					
OFLO only	(EX. WFA)		4		er + (w/targe er + (w/targe		1)(3)	K				
	Class # 1# fues				er + (w/targe er + (w/targe			L				
300A 350A	Class "J" fuse Class "J" fuse		A B		featable GF)			М				
350A 400A	Class "J" luse Class "J" fuse		B		ower + is not av							
			5	2 1	ot UL Listed	③ GF is	3w/4w (Se	ee Note 1)				
450A	Class "J" fuse		D	Trip	unit codes	(See Tal	ble A)		1		ור	
500A	Class "J" fuse				function		Code	TU functio		Code		
600A 800A	Class "J" fuse		r C	none				LIGDZ1 ① @	3)	Ν		
	Class "L" fuse		G	LSG				LSI®		P		
1000A	Class "L" fuse		H	LSG	3 Z1 3			LSIG ③ LSIGX ① ③		Q R		
1200A	Class "L" fuse		J		<u>7</u> 2 ③		-	LSIGZ1 ³		S		
1600A	Class "L" fuse		K		D13			LSIGZ2 3		T		
2000A	Class "L" fuse			LSG	DZ1 (1) (3)			LSIGD ① ③		V		
2500A	Silver "L" fuse		M		DZ2 1 3			LSIGDZ1 ①		W		
800A	"Welder" limiter		N	LI2	3)		F	LSIGDZ2 ①		Y	-	
1200A	"Welder" limiter		P	LIG LIGZ			K L	 Not UL Lis Power+ avai 		I.S or I.SI only		
1600A	"Welder" limiter		0)13			3 GF is 3w/				
2000A	"Welder" limiter		R									
Fran	ne &	Sensor	Code (See Note 1)		Rating	0.1		Rating	0.1		Rating	~
80		none	A	Sen	sor Plug none	Code X	Sens	or Plug 600	Code D	Sensor	<u>Piug</u> 1200	Cod K
		150	В		60 D		800		E	3200	1600	M
		400	С		80	2		800	G		2400	Р
		800	D	150		3		600 D	D		3200	S
160	00	none	E		125	4	410	800	G		1600 2000	M
		800	F		150 150 ①	<u> </u>	1600	0 1000 1100 ①	H J	4000	2000 2500	N Q
		1600	G		150 © 200	6		1100 © 1200	K	7000	2500 3000	R
200	00	none	Н	400		7		1600	М		3600 D	T
		2000	J		250	8		750 ①	F		4000	V
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500	00	none	P		500	С		2000	Ν	trip ui	nit	
200	-	5000	, R		1- 4		•			•		
and the 4th Catalog.		then the "A-Disc" [charac or must be ordered separa	ter position 14] must be se ttely. Refer to DEP-080 Prod	duct S Guct G	le A = Long Time = Short Time = Instantane = Ground Fau = Defeatable	e (ST) vous (Inst) ult (GF)		Ζ	1 = Zone 2 = Zone	chable ST o Selective I Selective I nd ST	nterlocking	g—GF



Accessory Wiring Guide for WavePro Breakers

10 Aux Switch (N.O. contact) Image: Aux Switch 1 Aux Switch (N.O. contact) Image: Aux Switch 11 Aux Switch (N.O. contact) Image: Aux Switch 12 Aux Switch (N.O. contact) Image: Aux Switch 3 Aux Switch (N.C. contact) Image: Aux Switch (N.C. contact) 4 Aux Switch (N.C. contact) Image: Aux Switch (N.C. contact) 5 Aux Switch (N.C. contact) Image: Aux Switch (N.C. contact) 7 (Note 1) Aux Switch (Common) Image: Aux Switch (N.C. contact) 6 Shunt Trip (N.C. contact) Image: Aux Switch (N.C. contact) 7 (Note 1) Shunt Trip (common) Image: Aux Switch (N.C. contact) 14 Bell Alarm (N.O. contact) Image: Aux Switch (N.C. contact) 15 Bell Alarm (N.O. contact) Image: Aux Switch (N.C. contact) 16 Bell Alarm (N.O. contact) Image: Aux Switch (N.C. contact) 17 Closing Spring Charging Motor Image: Aux Switch (N.C. contact) 18 Closing Spring Charging Motor Image: Aux Costact (Image: Aux Costact) 19 Bell Alarm (N.C. contact) Image: Aux Close Circuit 22 Undervoltage or Electric Lockout <th>A-DISC</th> <th>DIOCK (IEIT SIDE ITOITI ITOITI)</th> <th></th>	A-DISC	DIOCK (IEIT SIDE ITOITI ITOITI)	
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 35 Trip Unit Auxiliary Power (24VDC +) 36 Trip Unit Auxiliary Power (24VDC -) 			
36 Trip Unit Auxiliary Power (24VDC –)			
* Demote Clease Assessment on manual breaker		• • •	

* Remote Close Accessory on manual breaker

** Remote Charge Indicator (closing springs) applies to E/O breakers only

Reference Publications

DES-001	Time current curve Power+, MVT Plus / PM LSI
DES-002	Time current curve Power+, MVT Plus / PM GF
DEH-178	MicroVersaTrip Plus/PM Trip Unit Users Guide
DEH-179	Power+ Trip Unit Users Guide





DEU-020 Breaker Guideform Specification, Substructure Drawings

C-Disc	Block (right side from front)
10	Aux Switch (N.O. contact)

2 Aux Switch 1 Aux Switch (N.C. contact) 12 Aux Switch (N.O. contact) 3 Aux Switch 4 Aux Switch (N.C. contact) 13 Aux Switch (N.C. contact) 4 Aux Switch (N.C. contact) 4 Aux Switch (N.C. contact) 4 Aux Switch (N.C. contact) 5 (Note 1) 2nd Shunt Trip 6 Aux Switch (N.O. contact) 5 (Note 1) Aux Switch 15 Aux Switch (N.C. contact) 6 Aux Switch (N.C. contact) 7 Remote Charge Indicator ** 16 WPS-50 Fan Motor — 120VAC (H) 7 WPS-50 Fan Motor — 120VAC (N) 9 Spare 18 Spare 19 Spare 20 Spare 21 Spare 22 OFLO (phase A) 23 OFLO (phase B) 24 OFLO (phase C) 25 OFLO (phase C) 26 OFLO (phase C) 27 OFLO (phase C) 28 Spare	1	Aux Switch (N.O. contact) Aux Switch	
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Notes

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WavePro Breaker Application Guide

and Publications (CD-ROM)

 Auxiliary switch contacts are wired out if shunt trip is not provided.
 This drawing shows all breaker accessories. Refer to breaker catalog number for accessories included with the breaker.

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