

# VL Circuit Breakers

## PG 1600A Frame, VL Series & Thermal-Magnetic Trip Unit

### Selection/Dimensions

#### Ordering Information

Prices for a complete factory assembled PG breaker include the frame and trip unit only. The connectors must be ordered as separate items.

For any other configuration, order the frame, trip unit, and connectors as separate items.

Connectors require a Breaker Lug Mounting Assembly or Breaker Mounting Base and must be ordered as a separate item.

For DC applications, use Thermal magnetic trip unit only.

For reverse feed applications select non-interchangeable trip breakers only. Change the third digit of the catalog number to "X" for non-interchangeable trip breakers.

For 100% rated breakers with a non-interchangeable trip unit, change the 3<sup>rd</sup> character of the catalog number to "Y".

For special applications, refer to page 6-144.A

Mounting hardware is included with each frame or complete breaker.

A Toggle Handle Extension is included with each frame or complete breaker.



#### Dimensions, inches (mm)

Number of Poles	W	L	D	To Handle D1
2, 3	9 (229)	16 (406)	6 (152)	8.1 (207)

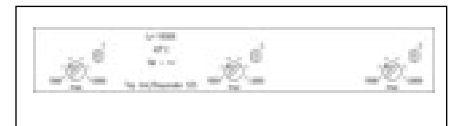
#### Shipping Weight, lbs. (kg)

Poles	Frame	Trip Unit	Complete Breaker
2, 3	60.2 (27.3)	8.8 (4.0)	69.0 (31.3)

#### PG Thermal-Magnetic, Instantaneous Trip Adjustment Range

Trip Unit Continuous Amp Rating (I <sub>n</sub> )	Instantaneous Overcurrent Setting (I <sub>i</sub> )	
	Min.	Max.
1200	7000	12000
1400	7000	12000
1600	7000	12000

Note: Each breaker has 6 trip settings in this range.



Model 525 Trip Unit

#### Interrupting Ratings

Breaker Type	RMS Symmetrical Amperes (KA)										
	UL 489					IEC 60947-2					
	Volts AC (50/60 Hz)			Volts DC		Volts AC (50/60 Hz)					
	240	480	600	250	500	220/240		380/415		690	
NPG	65	35	25	22	35	I <sub>CU</sub>	I <sub>CS</sub>	I <sub>CU</sub>	I <sub>CS</sub>	I <sub>CU</sub>	I <sub>CS</sub>
HPG	100	65	35	25	50	65	35	50	25	20	10
LPG	200	100	65	42	65	100	50	70	35	30	15
						200	100	100	50	35	17

#### Connectors for 75°C Wire

Construction	Ampere Rating	Wire Range	No. of cables per phase	Catalog Number	List Price \$
Aluminum	1200-1600A	1/0-750 kcmil Al/Cu	6	3TA6PG750 <sup>①③</sup>	940.00
Aluminum	1200-1600A	300-600 kcmil	5	TA5P600 <sup>②④</sup>	320.00
Aluminum	1200-1600A	600-750 kcmil	4	TA4P750 <sup>②④</sup>	254.00
Aluminum	1200-1600A	300-600 kcmil	6	TA6R600 <sup>②④</sup>	338.00
Copper	1200-1600A	300-600 kcmil	5	TC5R600 <sup>②④⑤</sup>	426.00

① Requires Lug Mounting Assembly LMAP1600.

② Requires Breaker Mounting Base MBPG1600 Kit or MBPG1601.

③ Consists of 3 connectors.

④ Consists of 1 connector.

⑤ For 100% rated applications, 90°C.

#### Mounting Arrangement

Description	Catalog Number	List Price \$
Lug Mounting Assembly	LMAP1600	968.00
Breaker Mounting Base (Front Connect)	MBPG1600	1153.00
Breaker Mounting Base (Rear Connect)	MBPG1601	1153.00

#### PG 1600A Frame 3-Pole with Thermal-Magnetic Trip Unit

Continuous Ampere Rating	N-Interrupting Class		H-Interrupting Class		L-Interrupting Class		Catalog Number	List Price \$
	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$		
	FRAME ONLY							
	NPG3F160	8983.00	HPG3F160	9944.00	LPG3F160	12158.00		
	COMPLETE FACTORY ASSEMBLED CIRCUIT BREAKER							
1200	NPG3B120	17276.00	HPG3B120	18237.00	LPG3B120	20451.00	CPT3B120	8293.00
1400	NPG3B140	17276.00	HPG3B140	18237.00	LPG3B140	20451.00	CPT3B140	8293.00
1600	NPG3B160	17276.00	HPG3B160	18237.00	LPG3B160	20451.00	CPT3B160	8293.00

A - Consult with Siemens for availability.

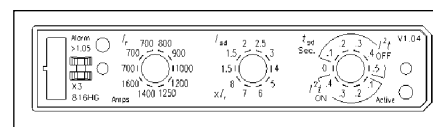
External Accessories pages 6-125 through 6-139

# VL Circuit Breakers

## PG 1600A Electronic 3-Knob & LCD Trip Units

• Revised •  
4/06/2009

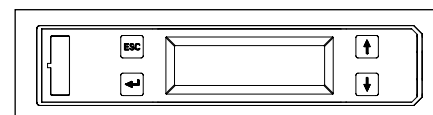
### Selection



Model 545 Trip Unit

### PG 1600A Frame 3-Pole Electronic Trip Unit

Continuous Ampere Rating	N-Interrupting Class		H-Interrupting Class		L-Interrupting Class		Catalog Number	List Price \$	
	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$			
	FRAME ONLY								TRIP UNIT ONLY
	NPG3F160	8983.00	HPG3F160	9944.00	LPG3F160	12158.00			
COMPLETE FACTORY ASSEMBLED CIRCUIT BREAKER								TRIP UNIT ONLY	
ELECTRONIC LI TRIP									
1200	NPG3N120	18743.00	HPG3N120	19704.00	LPG3N120	21918.00	CPT3N120	9760.00	
1600	NPG3N160	18743.00	HPG3N160	19704.00	LPG3N160	21918.00	CPT3N160	9760.00	
ELECTRONIC LSI TRIP									
1200	NPG3P120	19077.00	HPG3P120	20038.00	LPG3P120	22252.00	CPT3P120	10094.00	
1600	NPG3P160	19077.00	HPG3P160	20038.00	LPG3P160	22252.00	CPT3P160	10094.00	
ELECTRONIC LSIG TRIP									
1200	NPG3U120	21006.00	HPG3U120	21967.00	LPG3U120	24181.00	CPT3U120	12023.00	
1600	NPG3U160	21006.00	HPG3U160	21967.00	LPG3U160	24181.00	CPT3U160	12023.00	
ELECTRONIC LIG TRIP									
1200	NPG3X120	20672.00	HPG3X120	21633.00	LPG3X120	23847.00	CPT3X120	11689.00	
1600	NPG3X160	20672.00	HPG3X160	21633.00	LPG3X160	23847.00	CPT3X160	11689.00	



Model 576 Trip Unit

### PG 1600A Frame 3-Pole Electronic LCD Trip Unit

Continuous Ampere Rating	N-Interrupting Class		H-Interrupting Class		L-Interrupting Class		Catalog Number	List Price \$
	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$		
	FRAME ONLY							
	NPG3F160	8983.00	HPG3F160	9944.00	LPG3F160	12158.00		
COMPLETE FACTORY ASSEMBLED CIRCUIT BREAKER								TRIP UNIT ONLY
LCD ELECTRONIC LSI TRIP								
1200	NPG3D120	20591.00	HPG3D120	21552.00	LPG3D120	23766.00	CPT3D120	11608.00
1600	NPG3D160	20591.00	HPG3D160	21552.00	LPG3D160	23766.00	CPT3D160	11608.00
LCD ELECTRONIC LSIG TRIP								
1200	NPG3E120	22520.00	HPG3E120	23481.00	LPG3E120	25695.00	CPT3E120	13537.00
1600	NPG3E160	22520.00	HPG3E160	23481.00	LPG3E160	25695.00	CPT3E160	13537.00

A - Consult with Siemens for availability.

6  
MOLDED CASE  
CIRCUIT BREAKERS

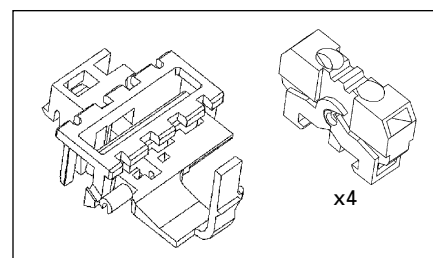
# VL Circuit Breakers

## Internal Accessories for MG 800A, NG 1200A, and PG 1600A Frames

### Selection

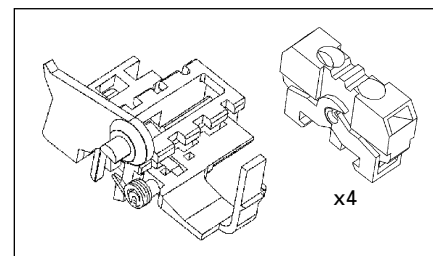
### Auxiliary Switch and Alarm Switch Combination Kits

Description	Mounting Pocket <sup>Ⓢ</sup>	Catalog Number	List Price \$
2 Aux. + 2 Alarm Switches 2A + 2B Base AMBP2	Left Pocket Only	<b>ASKP3</b>	<b>530.00</b>
4 Aux. Switches 2A + 2B Base AMBP1	Left, Right, Neutral	<b>ASKP4</b>	<b>495.00</b>



### Auxiliary/Alarm Switch Mounting Base Only

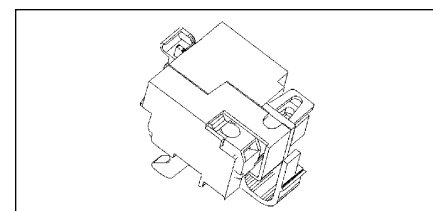
Description	Mounting Pocket <sup>Ⓢ</sup>	Catalog Number	List Price \$
Up to 4 Auxiliary Switches	Left, Right, Neutral	<b>AMBP1</b>	<b>83.00</b>
2 Aux. + 2 Alarm Switches	Left Pocket Only	<b>AMBP2</b>	<b>83.00</b>



### Auxiliary/Alarm Switch Only

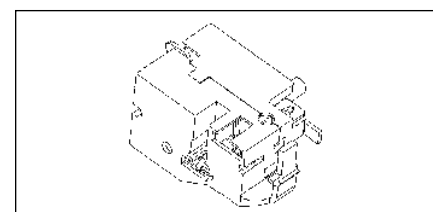
Common to DG-PG Frames

Description	Catalog Number	List Price \$
1 Normally Open Contact (1A)	<b>ASWPA</b>	<b>108.00</b>
1 Normally Closed Contact (1B)	<b>ASWPB</b>	<b>108.00</b>



### Shunt Trips

Description	Mounting Pocket	Catalog Number	List Price \$
24 VDC	Right Pocket Only	<b>STRPB24DC</b>	<b>654.00</b>
48-60 VDC		<b>STRPC60DC</b>	<b>654.00</b>
110-127 VDC		<b>STRPD125DC</b>	<b>654.00</b>
220-250 VDC		<b>STRPE250DC</b>	<b>654.00</b>
48-60 VAC		<b>STRPM60</b>	<b>654.00</b>
110-127 VAC		<b>STRPN120</b>	<b>654.00</b>
208-277 VAC		<b>STRPS277</b>	<b>654.00</b>
380-600 VAC		<b>STRPV600</b>	<b>654.00</b>



### Undervoltage Release

Description	Mounting Pocket	Catalog Number	List Price \$
12 VDC	Right Pocket Only	<b>UVRPA12DC</b>	<b>654.00</b>
24 VDC		<b>UVRPB24DC</b>	<b>654.00</b>
48 VDC		<b>UVRPC48DC</b>	<b>654.00</b>
60 VDC		<b>UVRPG60DC</b>	<b>654.00</b>
110-127 VDC		<b>UVRPD125DC</b>	<b>654.00</b>
220-250 VDC		<b>UVRPE250DC</b>	<b>654.00</b>
110-127 VAC		<b>UVRPN120</b>	<b>654.00</b>
220-240 VAC		<b>UVRPR240</b>	<b>654.00</b>
208 VAC		<b>UVRPP208</b>	<b>654.00</b>
277 VAC		<b>UVRPS277</b>	<b>654.00</b>
380-415 VAC		<b>UVRPT415</b>	<b>654.00</b>
440-480 VAC		<b>UVRPU480</b>	<b>654.00</b>



'A' refers to a normally open contact (open when the breaker contacts are open).

'B' refers to a normally closed contact (closed when the breaker contacts are open).

Ⓢ Refer to the "Accessory Locations" chart for guidelines and limitations about which pockets may be used for accessory combinations.