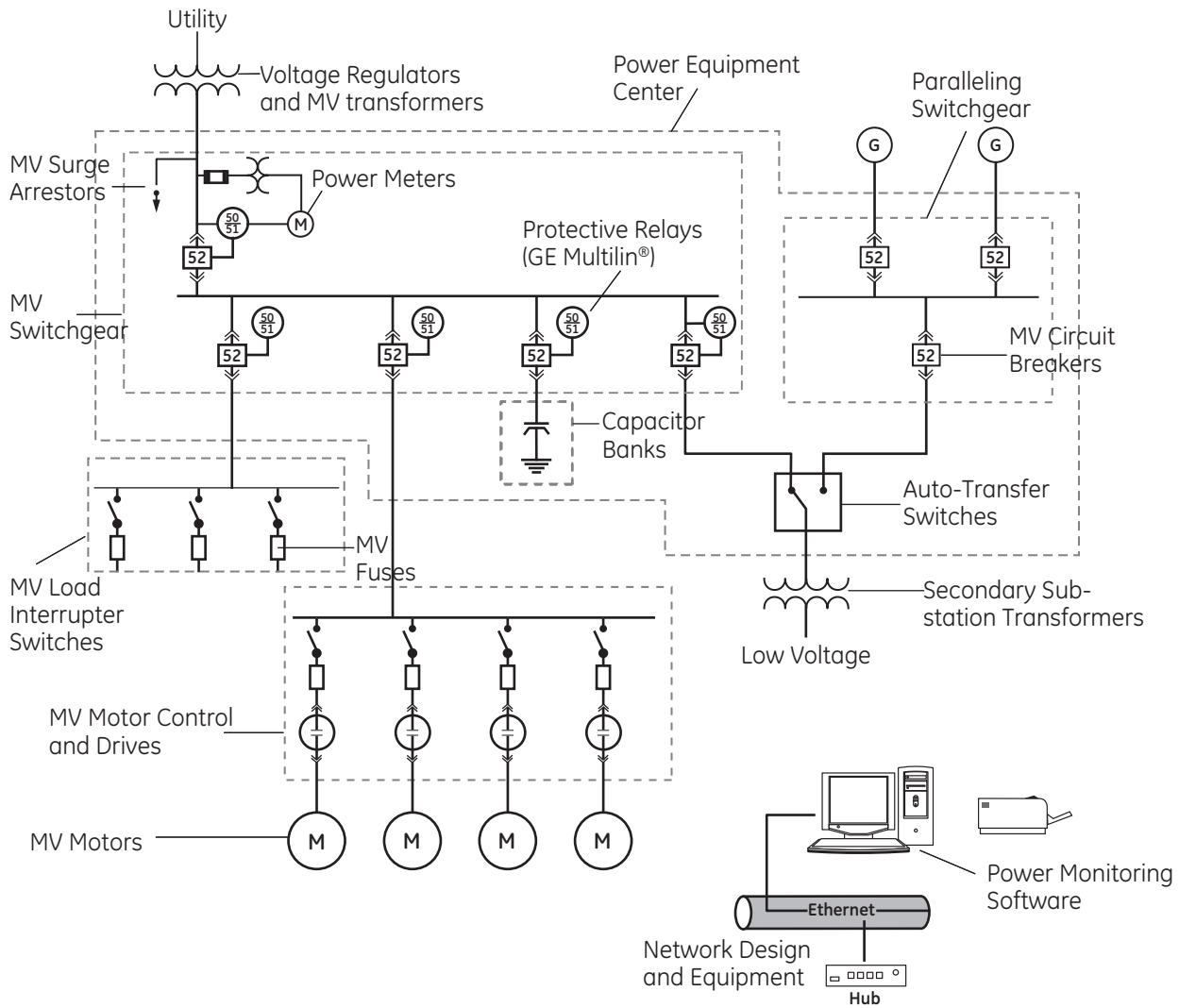


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Medium Voltage Equipment

Motor Control – Limitamp™

Limitamp Medium Voltage Motor Control

2400-7200 Volts

The GE Limitamp motor control center provides an economical means of centralizing motor starters and related control equipment. It permits motor control starters, feeders, isolator switches, distribution transformers, interlocking relays, programmable control, metering and other miscellaneous devices to be obtained in a single floor-mounted structural assembly fed from a common enclosed main bus.

Limitamp motor control centers are constructed of standardized heavy gauge vertical sections housing vertical and horizontal buses and compartmented starters. Sections are bolted together to form a single line-up assembly. The entire center may be powered by incoming line connection at a single point. When requested and possible, Limitamp motor control centers bear UL section and unit labels.

Limitamp Control is designed to meet NEMA ICS 3, Part 2 and UL 347 requirements. Various enclosure types and constructions are available and there is a broad selection of modifications for complete control and protection of motors used on modern power-utilization systems with high available short-circuit currents.

Limitamp AR is the Arc Resistant version of the Limitamp, providing a state of the art solution under arc flash conditions, increasing the safety and protection defined in the applicable IEEE C37.20.7-2007 – Type 2B standards.

The Limitamp AR is available for a variety of motor starters, maintaining the same basic characteristics as the CR194 Limitamp and the vacuum contactor.

This program is limited and restricted. Please contact your distributor or GE for scope, pricing, and ordering.

Product Features

- Visible blade disconnect switch
 - Proven, high reliability vacuum contactors (2 million operations)
 - Quick-make / quick-break disconnect switch
 - Modular, flexible enclosure construction
 - Extensive protective relays from GE Multilin™
 - Epoxy insulated bus available
 - Drawout and stationary contactors
 - 1 high and 2 high arrangements
 - UL / cUL available on most units
 - Large isolated low voltage compartment
 - No rear access required
 - Matching line-up with all existing Limitamp installed equipment
- AR version:
- Reinforced doors and panels to guarantee appropriate protection under arc flash conditions
 - Internal construction to ensure the arc flash products and gases are directed to the upper section of the enclosure
 - State of the art vent/flap mechanism to allow the gases to evacuate the enclosure and be contained in the Arc Duct or Plenum
 - Arc Plenum on top of each arc resistant vertical section with provision to be extended as required



Starter Types

- FVNR Full voltage non-reversing (induction and synchronous)
- RVAT Reduced voltage autotransformer
- RVPR Reduced voltage primary reactor
- FVR Full voltage reversing
- 2S1W Two-speed, one winding
- 2S2W Two-speed, two winding
- MVSS Medium voltage solid state
- Feeders Transformer feeders

Construction Options

- Main bus: 1200A, 2000A, 3600A (AR version up to 3000A)
- System voltages: 2400V, 3300V, 3600V, 4160V, 4800V, 6600V, 7200V
- Contactor sizes: 400A, 800A
- Enclosure types: NEMA 1, 1A, 2, 3R, (Limitamp AR only for indoor) 12
- Bus bracing: 50 KA symmetrical

Limitamp Medium Voltage Motor Control

Product References:

Engineered Products Catalog	Section 11
Application and Selection Guide	GET-6840

Medium Voltage Equipment

Motor Control – Limitamp™

Limitamp Medium Voltage Motor Control

2400-7200 Volts

Section 18

Key Product Specifications

Main AC Horizontal Bus Ratings

- 1200A, 2000A (1950A non-ventilated), or 3600A (2800 non-vented)
- 50 kA rms sym short circuit
- Tin or silver plating available
- Epoxy insulation available
- Matching line-up with all existing Limitamps (including Air Break)
- Auxiliary sections available for the Limitamp AR

Typical Current Ratings (amps) 2 HI only

- Vented: 360 top/400 bottom
- Non-vented: 320 top/320 bottom
- Arc Resistant: Non-vented 320 top/320 bottom

Interrupting Ratings

Class E1 mVA	25 at 2.5kV
	50 at 5.0kV
	75 at 7.2kV
Class E2 mVA	
2400 volts	200
3600 volts	300
4160 volts	350
4800 volts	400
7200 volts	600

Contactor Ratings—CR193B and CR193D (400A)

Short-time current (amps)	
30 seconds	2400
1 second	6000
Impulse withstand (kV)	60
Dielectric strength (kV) 1 minute	18.2
Switching frequency (ops/hour)	360
Mechanical life (ops)	2,000,000
Electrical life (ops)	1,000,000
Closing time (max. ms)	350
Opening time (max. ms)	
switched at coil	50
Pick-up voltage (% of rated)	85% max.
Drop out voltage (% of rated)	10%-65%
Control voltage (volts) requires rectification	110/115 AC
Control circuit burden (VA)	
Closing	175
Hold-in	30
Contactor weight	75 lbs. (35 kg)
Standards applicable	UL 347
	NEMA ICS 3, Part 2
	cUL

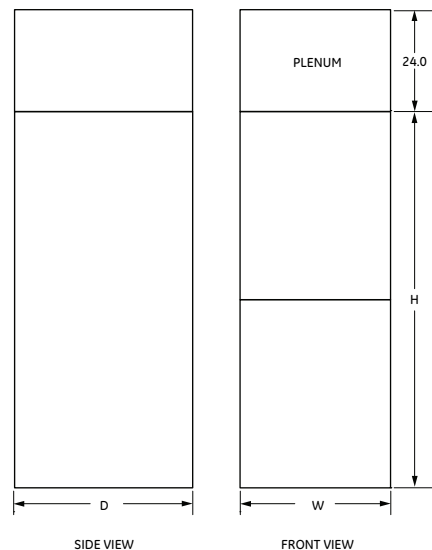
CR194 AR 400A, Stationary or Draw-out, Outline Dimensions

Description	Height (in.)	Width (in.)	Depth (in.)
1-High, 36" wide, BTM Cable Entry	90	36	42
1-High, 40" wide, BTM Cable Entry	90	40	42
1-High, 36" wide, TOP Cable Entry	90	36	42
1-High, 40" wide, TOP Cable Entry	90	40	42
2-High, 36" wide, BTM Cable Entry	90	36	42
2-High, 40" wide, BTM Cable Entry	90	40	42
2-High, 36" wide, TOP Cable Entry	90	36	42
2-High, 40" wide, TOP Cable Entry	90	40	42

Publication References for Limitamp Equipment

Publication	Description	Stocking Location
CR194 Vacuum Design		
DEA-328	Medium Voltage Soft Starters	Bloomington ¹
GEH-6263	2-high Maintenance Instructions	Bloomington ¹
GEH-5305	1-high Maintenance Instructions	Bloomington ¹
GET-6840	Selection & Application	Bloomington ¹
DET-064	Advertising Brochure	Bloomington ¹
GEH-5396	800 Amp 1-high Maintenance	Bloomington ¹
GEF-8016	Contactor Renewal Parts	Mebane
GEH-5306	Contactor Maintenance Instructions	Bloomington ¹
Fuses/Curves		
GES-5000	Power Fuse Curves	Bloomington ¹
General Purpose Controls		
GEP-1260	Control Catalog—Covers Full Line of Products	Bloomington ¹
Pilot Devices		
GEA-10877	CR104P Push Buttons and Pilot Lights	Bloomington ¹
Relays and Timers		
GEH-4115	CR120B AC Relays	Bloomington ¹
GEH-4120	CR120B Latched Relays	Bloomington ¹
GEH-6248	CR4 Control and Timing Relay	Bloomington ¹
GEH-5475	C-2000 Mini-Contactors Control Relays	Bloomington ¹
1601-0057	Multilin 469	GE Multilin™
1601-0077	Multilin 369	GE Multilin™
1601-0025	Multilin 269	GE Multilin™
1601-0013	Multilin 269+	GE Multilin™
1601-0060	Multilin 239+	GE Multilin™
Metering		
GEH-6302	Power Leader™ EPM, User's Guide	Bloomington ¹
GEH-5892	Power Leader™, User's Guide	Bloomington ¹

¹Ordering address on BuyLog™ page 27-1.



CR194 AR 400A Outline Dimensions

Medium Voltage Equipment

Motor Control – Limitamp™

Limitamp Medium Voltage Motor Control

2400-7200 Volts

Limitamp Product Scope

Product/ Application	Max. Fault Rating	Max. Current Rating (Amps)	Main Bus Rating ¹	Enclosure Size ²	Power Fuse Types	Overload Relays ³	Potential Transformers
One High CR194 400A ^{5,13} Vacuum Stationary Control (FVNR) (induction motor or transformer loads)	50 kA rms sym. ¹¹ 4.80 kV (fused)	360A vented 320A non-vented	1200A 2000A 3600A ¹² (2800A non-vented)	1-high ^{14,15} 26W x 90H x 30D (34W optional)	GE Type RB Bolted or Clip	CR324C Multilin 269+ ¹⁰	N/A
Two High CR194 400A ^{5,13} Vacuum Stationary or Drawout (FVNR)	50 kA rms sym. ¹¹ 7.2 kV (fused)	TOP: 360A vented 320A non-vented BOTTOM: 400A vented 320A non-vented	1200A ⁸ 2000A (1950A non-vented) 3600A ¹² (2800A non-vented)	2-high ¹⁴ 36W x 90H x 30D (40W optional)	GE Type RB Bolted or Clip	CR324C Multilin 269+ ¹⁰	N/A
One High CR194 800A ^{5,13} Vacuum Stationary or Drawout (FVNR) (induction motor or transformer loads)	50 kA rms sym. 4.80 kV (fused)	760A vented 640A non-vented	1200A & 2000A 3600A ¹² (2800A non-vented)	48W 1-high 480W x 90H x 30D	Ferraz Shawmut Type RB Bolted	CR324C Multilin 269+ ¹⁰	N/A
CR7160 400A ⁹ Air-Break Drawout (FVNR) (induction motor or transformer loads)	50 kA rms sym. 4.80 kV (fused)	320A 1-high non-vented 360A 1-high vented 310A 2-high vented 250A 3-high vented 310A 3-high, with only 2 contactors	1000A & 2000A 3600A ¹² (2800A non-vented)	1-high 34W x 90H x 30D (42W optional) 2-high & 3-high 44W x 90H x 30D	GE Type RA or RB	CR324C Multilin 269+	N/A
IC1074 1200A ⁶ Load Break Switch (stationary) (main, feeder, or tie)	38 kA rms sym. 4.76 kV (fused)	1200A vented w/o fuse 1000A non-vented w/o fuse 960A vented with fuse 840A non-vented with fuse	1000A & 2000A 3600A ¹² (2800A non-vented)	38W x 90H x 30D	Ferraz Shawmut	N/A	ITI stationary drawout
Auxiliary Sections ⁷ (incoming line, metering auxiliary)	38 kA rms sym. 4.76 kV	Per devices installed	1000A & 2000A 3600A ¹² (2800A non-vented)	90H x 30D any width available (22" minimum)	N/A	N/A	ITI stationary drawout

NOTES:

- 1 Copper only, silver or tin plating, insulation available.
- 2 NEMA 1 only, gasketing available. NEMA 2, 12, 3R available.
- 3 CR324 is ambient-compensated.
- 4 With primary and secondary fuses. Remote control power available.
- 5 Mechanical latch available. Capacitor trip device also available with latched contactor.
- 6 A switch may be used for isolation only.
- 7 Surge arresters available: GE #9L11XPB Polymer series.
- 8 Epoxy-coated.
- 9 Obsolete design-for replacement only.
- 10 Multilin 239, 269, 369, 469 available.
- 11 7.2 kV application available.
- 12 Adds 12 inches to depth.
- 13 Available in Arc Resistant Type 2B.
- 14 24 inch top for Plenum in AR version.
- 15 AR version not available in 26" and 34" 1-high.

Medium Voltage Equipment

Motor Control – Limitamp™

Frequently Requested Limitamp Renewal Parts

CR194 and CR7160

Section 18

Limitamp Renewal Parts

Limitamp Type	Part	Description	CR194	CR7160	Product Number
	Arc Chute Assembly	Load Break Switch		•	204B4051BTG1
	Blade Assembly	Load Break Switch		•	204B4051BRG1
			N/A		9F60JD025
			N/A		9F60JD030
			N/A		9F60JD040
			N/A		9F60JD050
		9F60 Series	N/A		9F60JD065
			N/A		9F60JD080
			N/A		9F60JD100
			N/A		9F60JD125
			N/A		9F60JD150
			N/A		9F60JD200
			•	•	9F62HCB025
			•	•	9F62HCB030
			•	•	9F62HCB040
			•	•	9F62HCB050
		9F62 G.P. Series	•	•	9F62HCB065
		Equivalent Cont.	•	•	9F62DCB080
		Current Rating	•	•	9F62DCB100
			•	•	9F62DCB125
			•	•	9F62DCB150
			•	•	9F62DCB175
			•	•	9F62DCB200
			•	•	9F62HCB025
			•	•	9F62HCB030
			•	•	9F62HCB040
			•	•	9F62HCB050
		9F62 G.P. Series	•	•	9F62HCB065
		Equivalent XFMR Protection	•	•	9F62DCB080
			•	•	9F62DCB125
			•	•	9F62DCB150
			•	•	9F62DCB175
			•	•	9F62DCB200
		Air - Clip (5kV, 70A)	•	•	218A4291P2RB
		Air - Clip (5kV, 100A)	•	•	218A4291P3RB
		Air - Clip (5kV, 130A)	•	•	218A4291P4RB
		Air - Clip (5kV, 170A)	•	•	218A4291P6RB
		Air - Clip (5kV, 200A)	•	•	218A4291P9RB
		Air - Clip (5kV, 230A)	•	•	218A4291P12RB
		Air - Clip (5kV, 390A)	•	•	218A4291P18RB
		Air - Clip (5kV, 450A)	•	•	218A4291P24RB
		Air - Bolted (5kV, 70A)		•	218A4293P2RB
		Air - Bolted (5kV, 100A)		•	218A4293P3RB
		Air - Bolted (5kV, 130A)		•	218A4293P4RB
		Air - Bolted (5kV, 170A)		•	218A4293P6RB
		Air - Bolted (5kV, 200A)		•	218A4293P9RB
		Air - Bolted (5kV, 230A)		•	218A4293P12RB
		Air - Bolted (5kV, 390A)		•	218A4293P18RB
		Air - Bolted (5kV, 450A)		•	218A4293P24RB
		Vac. - Bolted (5kV, 70A)	•		55A212942P2RB
		Vac. - Bolted (5kV, 100A)	•		55A212942P3RB
		Vac. - Bolted (5kV, 130A)	•		55A212942P4RB
		Vac. - Bolted (5kV, 170A)	•		55A212942P6RB
		Vac. - Bolted (5kV, 200A)	•		55A212942P9RB
		Vac. - Bolted (5kV, 230A)	•		55A212942P12RB
		Vac. - Bolted (5kV, 390A)	•		55A212942P18RB
		Vac. - Bolted (5kV, 450A)	•		55A212942P24RB
		Vac. - Bolted - 800A (5kV, 425A)	•		55A213937P425B
		Vac. - Bolted - 800A (5kV, 550A)	•		55A213937P550B
		Vac. - Bolted - 800A (5kV, 630A)	•		55A213937P630B
		Vac. - Bolted - 800A (5kV, 800A)	•		55A213937P800B
		Air - Bolted (7.2kV, 70A)		•	218A4298P070
		Air - Bolted (7.2kV, 100A)		•	218A4298P100
		Air - Bolted (7.2kV, 180A)		•	218A4298P180
		Air - Bolted (7.2kV, 360A)		•	218A4298P360
		Vac. - Bolted (7.2kV, 70A)	•		55A212943P70
		Vac. - Bolted (7.2kV, 100A)	•		55A212943P100
		Vac. - Bolted (7.2kV, 180A)	•		55A212943P180
		Vac. - Bolted (7.2kV, 360A)	•		55A212943P360

Medium Voltage Equipment Motor Control – Limitamp™ Frequently Requested Limitamp Renewal Parts CR194 and CR7160

Section 18

Renewal Parts (continued)

Part	Description	Limitamp Type		Product Number
		CR194	CR7160	
R Rated Fuses	Air or Vac Clip, 7.2kv, 70A	•	•	9F60LJE503
	Air or Vac Clip, 7.2kv, 130A	•	•	9F60LJE504
	Air or Vac Clip, 7.2kv, 170A	•	•	9F60LJE506
	Air or Vac Clip, 7.2kv, 200A	•	•	9F60LJE509
	Air or Vac Clip, 7.2kv, 230A	•	•	9F60LJE512
	Air or Vac Clip, 7.2kv, 390A	•	•	9F60MJE518
	Air or Vac Clip, 7.2kv, 450A	•	•	9F60MJE524
Control Power Transformer	0.75kVA 2400 to 230/115 Vac	•	•	573A350P86
	0.75kVA 4160 to 230/115 Vac	•	•	573A350P87
	2kVA 2400 to 230/115 Vac	•	•	573A350P44
Primary Fuses	2kVA 4160 to 230/115 Vac	•	•	573A350P45
	3kVA 4160 to 230/115 Vac	•	•	573A350P53
	3kVA 2400 to 230/115 Vac	•	•	573A350P54
Repl. Bottles	1 Amp (Use with .75kVA)	•	•	CSC#A480T1E-1
	3 Amp (Use with 2kVA)	•	•	CSC#A480T3E-1
	4 Amp (Use with 3kVA)	•	•	CSC#A480T4E-1
Vacuum Contactors	Refer to Factory	•	•	

This is a partial listing of GE's medium voltage power fuse offering. GE offers current limiting fuses for a large variety of applications, including full range fuses, potential transformer fuses, motor starters, capacitor fuses, supports, disconnect switches, and a variety of fuse clips and live parts.

For more information, please contact your local GE distributor, or local GE Energy sales representative. Our catalog (GEP-9013B), as well as other application and selection information are also available at www.geindustrial.com. If you need further assistance you may contact our customer service group at 1-800-821-4873 (US only).

Limitamp Parts Publications List

Model	Description	Number
CR194	Instructions (One-High) 400A	GEH-5305
	Instructions (Two-High) 400A	GEH-6263
	Renewal Parts 400A	DEF-002
CR7160 Air Break	Instructions 800A	GEH-5396
	Instructions and Maintenance	GEH-3091
CR-193 Vac. Contactor	Renewal Parts	GEF-4630
	Maintenance	GEH-5306
	Renewal Parts	GEF-8016
Air Break Contactor (IC2814 and IC302)	Instructions and Maintenance	GEH-3102
	Renewal Parts 400A	GEF-4551
	Renewal Parts 700A	GEF-4576
CR7160 Drawout Vac. Contactors	Instructions and Maintenance	GEH-4989
	Renewal Parts	GEF-8017
Load Break Switch (IC1074)	Instructions and Maintenance	GEH-4268

Medium Voltage Equipment Switchgear — PowerVac Medium Voltage Switchgear

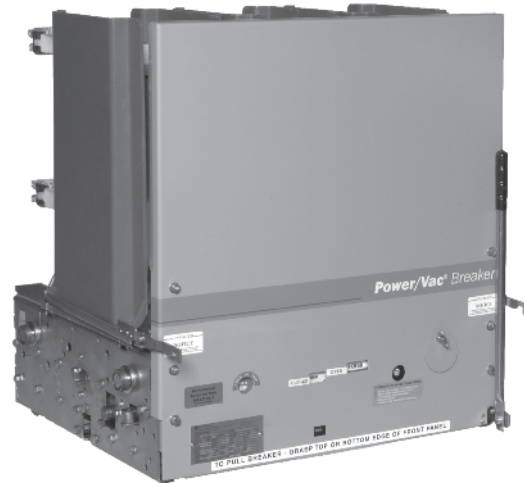
For medium-voltage applications, Power/Vac¹ metalclad switchgear is available, utilizing Power/Vac vacuum circuit breakers.

Power/Vac switchgear is designed to meet a wide variety of protection and switching applications. All functional units such as incoming line, radial feeders, feeder bypass, bus-tie, bus-entrance and auxiliary units are available to give your system-planning staff a wide range of latitude. These basic functions, plus the versatility of one-high or two-high stacking, afford maximum value for your application dollar.

**For pricing and application assistance,
contact your local ABB sales office.**

Instructions/Maintenance

Power/Vac Vacuum Circuit Breaker with ML-17H-4 Rev. 0 and -1 Mechanism	01.4IB.66000A
Power/Vac Vacuum Circuit Breaker with ML-18 Mechanism Type VB1 (This mechanism no longer in production)	GEK-86132
Power/Vac Vacuum Circuit Breaker with ML-17 Mechanism Models 0, -1, -2, -3 (Previous production design)	GEK-39671
Power/Vac Metalclad Switchgear Types 4.16 and 13.8 Installation and Maintenance	GEK-39672
Metalclad Switchgear Components (Full Height Frame) for Power/Vac Circuit Breaker	GEK-90209
Metalclad Switchgear Components Box and "L" frame for Power/Vac Circuit Breaker	GEK-90215
Power/Vac Compartment Kits	GEK-103201
Renewal Parts - Power/Vac Vacuum Circuit Breaker with ML17 Mechanism Models 0, -1, -2, -3	GEF-4705
Renewal Parts - Power/Vac Vacuum Circuit Breaker with ML18 Mechanism	GEK-90218
1500 mVA Bkr	GEK-39671 + DEI-002
Power/Vac 27kV Circuit Breaker with ML-20 Mechanism	DEH-40368



¹Power/Vac is manufactured by and is a registered trademark of Powell Industries.

Medium Voltage Equipment

Switchgear — PowerVac

Power/Vac Vacuum Metalclad Switchgear, and Breakers

Power/Vac switchgear is designed, assembled and tested to meet or exceed applicable ANSI, IEEE and NEMA standards. UL Listing is available as option when requested on breakers and cubicles depending on device compliment. Power/Vac switchgear incorporates the compartment concept with grounded metal barriers that segregate primary functions so no live parts are exposed. Safety interlocks are standard as well as closed door racking and storage, breaker position indicator, and positively-actuated safety shutters. Power/Vac metalclad switchgear combines the time-honored advantages of GE ANSI designed metalclad switchgear — flexibility, quality and economy, along with the benefits of copper-chrome — improved reliability, longer life, design simplicity, less maintenance, reduced size and weight.

Furthermore, two-high breaker stacking (one breaker above another in a single vertical section) means added application freedom and significant floor space savings. Power/Vac metalclad switchgear incorporates standardized modular construction to simplify system planning and lower installation cost. These economies are enhanced by the availability of structured protection, instrumentation and control packages.

Power/Vac switchgear is designed to meet a wide variety of protection and switching applications. All functional units such as incoming line, radial feeders, feeder bypass, bus-tie, bus-entrance and auxiliary units are available to give your system planning staff a wide range of latitude. These basic functions, plus the versatility of two-high breaker stacking, afford maximum value for your application dollar.

The modular design of Power/Vac metalclad switchgear combines with precision tooled parts, computer-aided design and advanced production techniques to set a new standard of excellence exhibited in the superior reliability figures cited earlier.

Power/Vac Equipment

- Ratings—4.76 kV-20KA through 15 kV-63kA
- Two-high breaker stacking can save up to 50% in floor space depending on rating, and results in fewer shipping splits.
- Main bus compartment is completely isolated by metal barriers. All main bus joints have tin plated connections for positive contact and low resistance and are insulated with preformed boots (silver plated optional). Bus bars are provided with high dielectric insulation; they pass through track resistant polyester glass barriers between cubicles. Porcelain insulation to ground is optional.
- Rugged steel frame employs reinforced steel gussets for added strength and dimensional integrity.
- Breakers are directly racked into position on rails which ensure proper alignment of primary and secondary connections.
- Positive stops are provided in TEST/DISCONNECT and CONNECT positions.
- Precision tooling brings uniform quality to breaker and equipment parts and facilitates trouble-free field assembly and operation.
- Auxiliary draw-out trays can be mounted above or below breakers for greater flexibility.

- Remote Racking/Control options are available for increased safety, and to meet NFPA 70E-2004.
- NEMA 1, NEMA 3R and NEMA 3R Walk-in Construction available
- Ample relay and terminal block space accepts complex configurations. Open doors are securely held with positive stops so breakers can be inserted or withdrawn without damaging control, indication or protective devices.
- Consistent top-quality manufacturing at ISO-9002 listed facility.

Power/Vac Breaker

- Vacuum interrupters provide rapid arc interruption and are not affected by the external environment.
- Vacuum interrupter contacts require no maintenance and seldom wear out over the normal duty life-span of a circuit breaker.
- Contact erosion indicator is provided for inspection convenience.
- Primary disconnect fingers are rugged and easy to inspect. Built of silver-plated copper and tested for continuous and momentary currents, these disconnects provide proper contact integrity throughout the life of the gear.
- Breaker ratings: 4.76 kV-20KA through 15 kV-63kA, 1200 Amperes to 4000 Amperes
- Interrupter support of track resistant polyester glass houses vacuum interrupter and primary connection bars. Removed as a unit, it simplifies replacement of vacuum interrupters should they have to be replaced.
- Breaker mechanism is stored energy spring-charged providing fast closing and opening speeds. Parts are high quality precision tooled to close tolerances for operating consistency, reliability, maintenance ease and long life.
- 4000 Amp is fan cooled.

For more information on these products:

Power/Vac Descriptive Brochure	DEA-398
Power/Vac Application Guide	GET-6600
Power/Vac Switchgear Installation Manual	GEK-39672
BreakMaster Medium Voltage Load Interrupter	DEA-052

For pricing and application assistance, contact your local GE sales office.

Medium Voltage Equipment Switchgear – PowerVac Medium-Voltage Switchgear Application Data

Section 18

Power/Vac Power Circuit Breaker Characteristics

Power/Vac Power Circuit Breaker Characteristics

Symmetrical Ratings Basis per ANSI C37.06 - 2009

Rated Maximum rms Voltage (kV) (1)	Nominal ANSI Voltage Class (kV)	Typical System Operating Voltages (kV)	Rated Voltage Range Factor, K	Rated Withstand Test Voltage		Available Ratings					
				Low Frequency rms Voltage (kV)	Crest Impulse Voltage (kV)	Continuous rms Current Rating at 60Hz (amperes) (2)	Rated Short Circuit Current (Maximum Interrupting Capability) (kA) (3)	Rated Interrupting Time (Cycles)	Rated Permissible Tripping Delay, Y (Seconds)	Maximum 2 Sec Short time Current Carrying Capability (kA)	Peak Close and Latch (2.7K x short circuit current rating) (kA)
4.76	4.16	2400 4160 4200	1.0	19	60	1200-4000	31.5	5 or 3	2	31.5	82
						1200-4000	40	5 or 3		40	108
						1200-4000	50	5 or 3		50	135
						1200-4000	63	5 or 3		63	170
8.25	7.2	6600 6900 7200	1.0	36	95	1200-4000	40	5 or 3	2	40	108
						1200-4000	50*	5 or 3		50	135
						1200-4000	63*	5 or 3		63	170
15	13.8	12000 12470 13200 13800 14400	1.0	36	95	1200-4000	20	5 or 3	2	20	54
						1200-4000	25	5 or 3		25	68
						1200-4000	31.5	5 or 3		31.5	85
						1200-4000	40	5 or 3		40	108
						1200-4000	50	5 or 3		50	135
						1200-4000	63	5 or 3		63	170

¹Maximum voltage for which the breaker is designed and upper limit of operation.

²Available current ratings are 1200A, 2000A, 3000A, 3500A and 4000A. 4000A rating is forced-air cooled, indoor construction only. 3500A is available in outdoor construction, but must be derated to 3250A

³At system operating voltages equal to or less than rated maximum voltage.

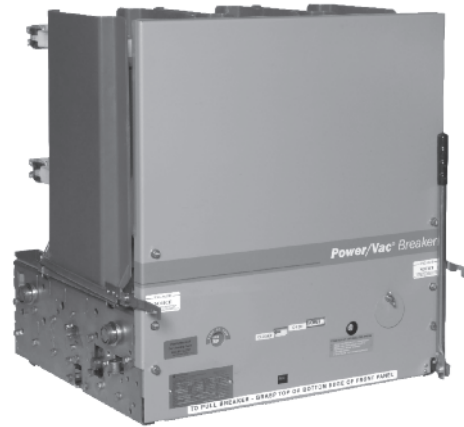
*Available ratings in addition to the ANSI C37.06-2009 preferred ratings.

Medium Voltage Equipment Vacuum Circuit Breakers and Frames Type VB Power/Vac Vacuum Circuit Breakers and Frames

For pricing and application assistance,
contact your local GE sales office.

Features

- VB Power/Vac skeleton frame is designed for use by OEM switchgear builders.
- Flexibility is offered in various frame configurations allowing breakers to be stacked in a two-tier arrangement.
- Breaker compartment includes racking mechanism, stationary primary disconnects, shutter mechanism and secondary control with ten foot leads for connection to the control circuits.
- Auxiliary compartment includes potential transformer and/or control power transformer roll-out tray. Transformers, fuses and secondary control wiring are supplied by the purchaser.
- Blank compartments are available when required by switchgear line-up arrangement.
- Breaker storage compartment includes breaker storage rails.
- Power/Vac vacuum breaker elements with all ANSI ratings from 20kA through 63kA (ANSI C37.06 2009), 1200 amperes through 4000 amperes. 27kV @ 16kA and 25kA available.
- Stored energy, spring-charged operating mechanism for fast closing and tripping.
- Various control voltages for breaker operation are available in ac or dc.
- UL Listing on Power/Vac Breaker available if specified.
- Skeleton frame UL Recognized component if specified.
- A complete line of accessories is available.
- Additional OEM Components are also available.
 - Box Frames
 - “L” Frames (cradle)
 - Breaker compartment and rollout compartment kits
- Contact your local GE sales office for information.



Type VB1 – 4.16 kV-250 mVA
1200 ampere breaker element



Typical skeleton frame

