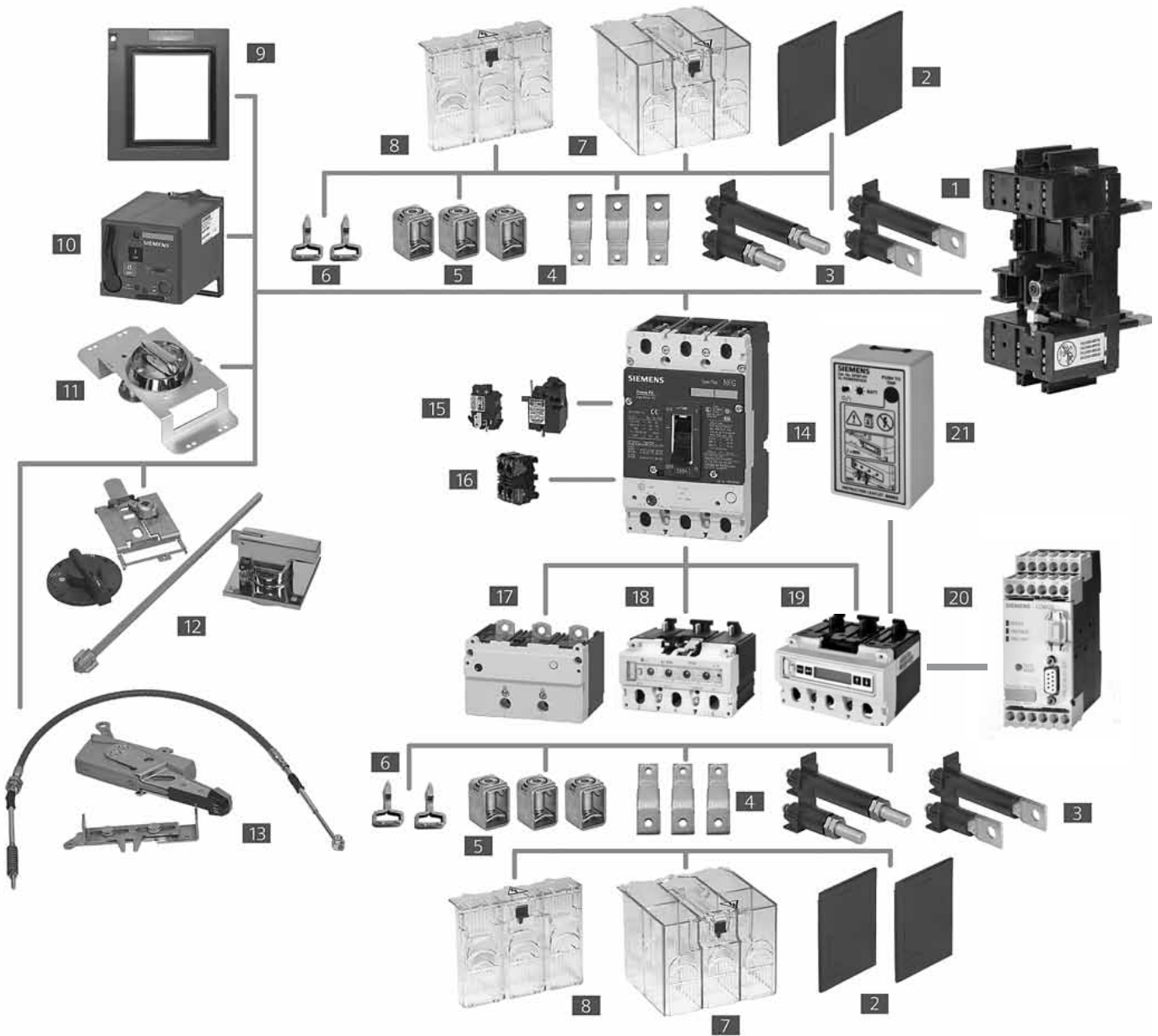


Modularity To Support All Your Application Needs Modules and More: VL Circuit Breakers with Optional Accessories



5
MOLDED CASE
CIRCUIT BREAKERS

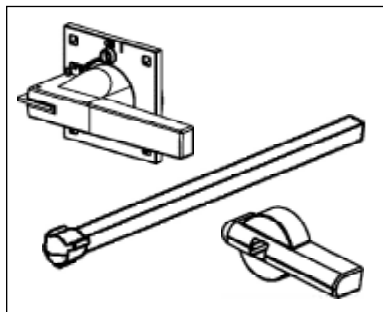
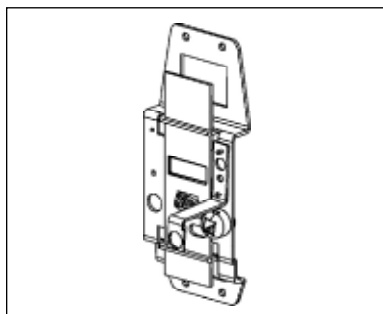
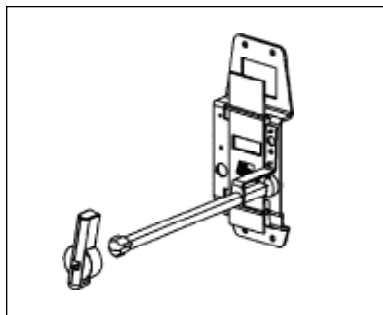
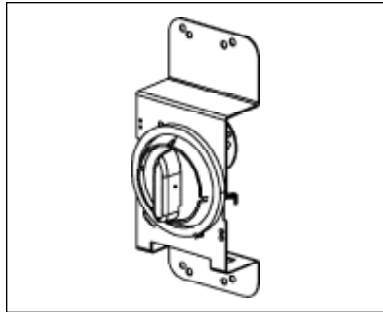
- 1 Base for Plug-In or Draw-Out
- 2 Interphase Barriers
- 3 Rear Terminals – Flat and Round
- 4 Bus Extensions
- 5 Terminal Connectors
- 6 Plug-In Terminal Blades
- 7 Extended Terminal Shield
- 8 Standard Terminal Shield

- 9 Cover Frame for Door Cutout
- 10 Stored Energy Operator
- 11 Rotary Handle Operator
- 12 Variable Depth Rotary Operator
- 13 Max Flex Operator
- 14 Circuit Breaker
- 15 Shunt Trip or Undervoltage Releases
- 16 Auxiliary/Alarm Switches

- 17 Thermal Magnetic Trip Unit (525)
- 18 Electronic Trip Unit (555)
- 19 Elec. Trip Unit with LCD (586)
- 20 Communication Module with ZSI
- 21 Electronic Trip Unit Tester and LCB Power Supply

VL External Accessories

Operating Mechanisms



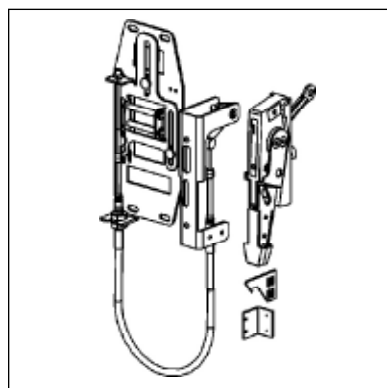
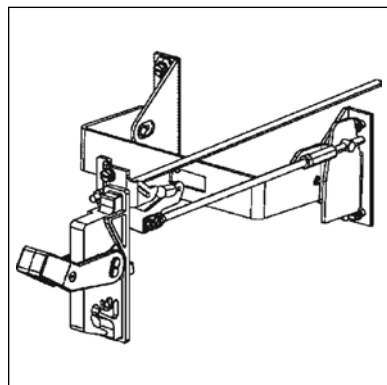
Ⓞ During manual operation, Early Break auxiliary switch contacts open before the breaker opens.

Description	For DG to FG Frame 150 to 250 A	For JG to LG Frame 400 A to 600 A
	Catalogue Number	Catalogue Number
Through-Door Rotary Handle Operator Kit Fixed depth and the handle is mounted directly on the circuit breaker. Lockable knob (for up to 3 padlocks). NEMA 1, 12 Red Handle Version with red knob, yellow indicator plate NEMA 1, 12	RHFF	RHFL
Door-Mounted Rotary Handle Operator Kit Variable depth, door mounted handle. Includes knob with masking frame, indicator plate, detachable door coupling, 12" shaft, and breaker mounted rotary operator. Lockable knob (for up to 3 padlocks). NEMA 1, 12	RHFFEM	RHFLEM
Auxiliary Switch Kits For Direct or Extended Rotary Handle Operators (RHF and RHV). Form C, Early Break type2 Aux. Switch Kit [Ⓞ] Includes 1 switch with 5' wire For Door-Mounted Operator For Through-Door Operator Includes 2 switches with 5' wire For Door-Mounted Operator For Through-Door Operator	— RHSFA1F — RHSFA2F	RHSLA1 RHSLA1F RHSLA2 RHSLA2F
Door-Mounted Rotary Operator Mechanism Breaker mechanism only	RHVFBM	RHVLBM
Door-Mounted Rotary Handle Only Standard version NEMA 1, 12 NEMA 3R NEMA 4X Red Handle version	RHVM12H RHVM3RH RHVM4XH RHVMEMH	RHVM12H RHVM3RH RHVM4XH RHVMEMH
NFPA-79 Handle Kit Intermediate handle for NFPA-79 compliance with door-mounted rotary operator	RHVF79H	RHVM79H
Extension Shaft Only, for Door Mounted Operator 2 inches (50.8mm) 3 inches (76.2mm) 12 inches (304.8 mm) 16 inches (406.4 mm) 24 inches (609.6mm) w/ support bracket	RHVMS02 — RHVMS12 RHVMS16 RHVMS24	RHVMS02 — RHVMS12 RHVMS16 RHVMS24

Description	For MG Frame 800 A	For NG to PG Frame 1200 to 1600 A
	Catalogue Number	Catalogue Number
Through-Door Rotary Handle Operator Kit Fixed depth, breaker mounted. For direct fitting to the circuit breaker. Lockable with up to 3 padlocks. NEMA 1, 12 Red Handle Version with red knob, yellow indicator plate NEMA 1, 12	RHFM —	— —
Door-Mounted Rotary Handle Operator Kit Variable depth, door mounted handle. Includes knob with masking frame, indicator plate, detachable door coupling, 12" shaft, and breaker mounted rotary operator. Lockable knob (for up to 3 padlocks). NEMA 1, 12	RHVM12	—
Auxiliary Switch Kits For Direct or Extended Rotary Handle Operators (RHF and RHV). Early Break type 2 Aux. Switch Kit Includes 1 switch with 5' wire For Door-Mounted Operator For Through-Door Operator Includes 2 switches with 5' wire For Door-Mounted Operator For Through-Door Operator	RHSMA1 — RHSMA2 —	RHSPA1 — RHSPA2 —
Door-Mounted Rotary Operator Mechanism Breaker mechanism only	RHVMBM	RHVPBM
Door-Mounted Rotary Handle Only Standard version NEMA 1, 12 NEMA 3R NEMA 4X Red Handle version	RHVM12H RHVM3RH RHVM4XH RHVMEMH	RHVP12H RHVP3RH RHVP4XH RHVPEMH
NFPA-79 Handle Kit Intermediate handle for NFPA-79 compliance with door-mounted rotary operator	RHVM79H	RHVP79H
Extension Shaft Only, for Door Mounted Operator 2 inches (50.8mm) 3 inches (76.2mm) 12 inches (304.8 mm) 16 inches (406.4 mm) 24 inches (609.6mm) w/ support bracket	RHVMS02 — RHVMS12 RHVMS16 RHVMS24	— RHVPS03 RHVPS12 — RHVPS24

VL External Accessories

Operating Mechanisms



Description	For DG and FG Frame 150 to 250 A	For JG and LG Frame 400 to 600 A
	Catalogue Number	Catalogue Number
Variable Depth Flange Mounted Operator Kit Adjustable from 8" to 16" Complete kit, includes handle and variable depth operator. NEMA 1, 3R, 12 NEMA 4X IEC Black Handle NEMA 1, 3R, 12 NEMA 4X	FHVF3R FHVF4X FHVF3RB FHVF4XB	FHVL3R FHVL4X FHVL3RB FHVL4XB
Max-Flex™, Variable Depth Flange Mounted Operator Kit Complete kit, includes plastic handle, breaker operator, and cable. NEMA 1, 3R, 12 For DG and FG operators, the cable is 36", all others are 48" May be right- or left-hand mounted	MFKF3R	MFKL3R
Handle Only, for Max-Flex™ Variable Depth NEMA 1, 3R, 12 Plastic NEMA 1, 3R, 12 Steel - epoxy coated NEMA 4, 4X Steel - chrome plated Solid color (all gray) Plastic [Ⓞ] NEMA 1, 3R, 12 Solid color (black handle) Steel epoxy coated [Ⓞ] NEMA 1, 3R, 12	MFHM3R MFHM3RS MFHM4X MFHM3RB MFHM3RSB	MFHM3R MFHM3RS MFHM4X MFHM3RB MFHM3RSB
Breaker Operator Mechanism Only, for Max-Flex™	MFMF	MFML
Cable Only, for Max-Flex™ Variable Depth 36" 48" 60" 72" 84" 96" 120" 144"	MFCF036 MFCF048 MFCF060 MFCF072 MFCF084 MFCF096 MFCF120 MFCF144	MFCM036 MFCM048 MFCM060 MFCM072 MFCM084 MFCM096 MFCM120 MFCM144
Handle Auxiliary Switch Form C (1NO - 1NC), early break [Ⓞ] 1 Aux. switch 2 Aux. switch	MFSFA1 MFSFA2	MFSLA1 MFSLA2

Ⓞ Max-Flex™ handles are available with solid gray or black handles instead of the customary "Red for On" flange handle.

The black handle is preferred for IEC markets, where red handles have a specific meaning.

Ⓞ During manual operation, Early Break aux. contacts open before the breaker opens.

Description	For MG Frame 800 A	For NG Frame 1200 A	For PG Frame 1600 A
	Catalogue Number	Catalogue Number	Catalogue Number
Variable Depth Flange Mounted Operator Kit Adjustable from 8" to 16" Complete kit, includes handle and variable depth operator.			
NEMA 1, 3R, 12	—	—	
NEMA 4X	—	—	
IEC Black Handle NEMA 1, 3R, 12 NEMA 4X	—	—	
Max-Flex™, Variable Depth Flange Mounted Operator Kit Complete kit, includes plastic handle, breaker operator, and cable. NEMA 1, 3R, 12 For DG and FG operators, the cable is 36", all others are 48" May be right- or left-hand mounted	MFKM3R	MFKP3RS	MFKP3RS
Handle Only, for Max-Flex™ Variable Depth			
NEMA 1, 3R, 12 Plastic	MFHM3R	—	—
NEMA 1, 3R, 12 Steel - epoxy coated	MFHM3RS	MFHP3RS	MFHP3RS
NEMA 4, 4X Steel - chrome plated	MFHM4X	MFHP4X	MFHP4X
Solid color (all gray) Plastic [Ⓞ]			
NEMA 1, 3R, 12	MFHM3RB	—	—
Solid color (black handle) Steel epoxy coated [Ⓞ]			
NEMA 1, 3R, 12	MFHM3RSB	MFHP3RSB	MFHP3RSB
Breaker Operator Mechanism Only, for Max-Flex™	MFMM	MFMP	MFMP
Cable Only, for Max-Flex™ Variable Depth			
36"	MFCM036	—	—
48"	MFCM048	MFCP048	MFCP048
60"	MFCM060	MFCP060	MFCP060
72"	MFCM072	MFCP072	MFCP072
84"	MFCM084	MFCP084	MFCP084
96"	MFCM096	MFCP096	MFCP096
120"	MFCM120	MFCP120	MFCP120
144"	MFCM144	MFCP144	MFCP144
Handle Auxiliary Switch Form C (1NO - 1NC), early break [Ⓞ]			
1 Aux. switch	MFSPA1	MFSPA1	MFSPA1
2 Aux. switch	MFSPA2	MFSPA2	MFSPA2

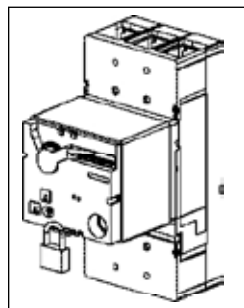
Ⓞ Max-Flex™ handles are available with solid gray or black handles instead of the customary "Red for On" flange handle.

The black handle is preferred for IEC markets, where red handles have a specific meaning.

Ⓞ During manual operation, Early Break aux. contacts open before the breaker opens.

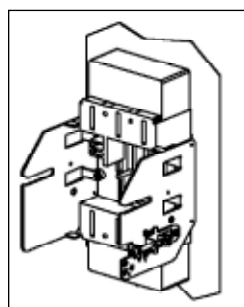
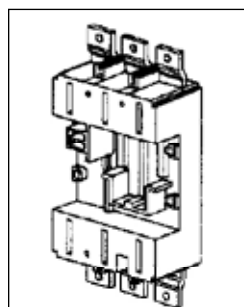
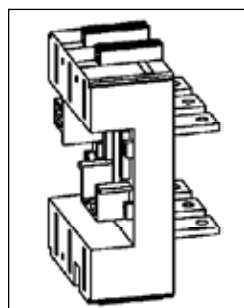
VL External Accessories

Operating Mechanisms



Description	For DG to FG Frame 150 to 250 A	
	Catalogue Number	
Stored Energy and Motor Operators Lockable with up to 3 padlocks.		
AC Voltage DC Voltage	Stored Energy Type	
— 24	SEAFB	
42-48 42-48	SEAFM	
60 60	SEAFY	
110-127 110-127	SEAFN	
220-250 220-250	SEAFR	
Cylinder Locks for Field Installation	CLKF	

Plug-In and Draw-Out Bases



Description	For DG Frame 150 A	For FG Frame 250 A
	Catalogue Number	Catalogue Number
Plug-in Mounting Base Assembly Includes base, terminal blade kit, sec. terminal block assembly, base trip interlock, and mounting hardware.		
Rear Connected 3-pole	PCBDRC3	PCBFRC3
Front Connected 3-pole	PCBDFC3	PCBFFC3
Draw-out Assembly Includes base, position indicator switch, socket, base trip interlock, crank handle, connectors, and necessary shields.		
Rear Connected 3-pole	DCADRC3	DCAFRC3
Front Connected 3-pole (Draw-out assembly includes side plates and all hardware)	DCADFC3	DCAFFC3
Hex Wrench for racking draw-out assembly and position indicator	DCHP	DCHP
Position Indicator Switch Form "C" switch to indicate breaker engaged/de-engaged position.Ⓢ	DCIP	DCIP
Secondary Terminal Block Assy. Accessory connections for plug-in or draw-out breakers. Pre-wired plug and block with 8 terminal points.Ⓢ	PCTF83	PCTF83
Plug-In Spare Breaker Kit Set of 6 terminal blades, 2 terminal shield, & 1 trip interlock	PCXD3	PCXF3
Draw-out Spare Breaker Kit Set of 6 terminal blades, & 1 trip interlock	DCXD3	DCXF3
Spare Breaker Trip Interlock	PCXFT	PCXFT

Ⓢ Up to 2 position indicator switches may be mounted per plug-in or draw-out base.

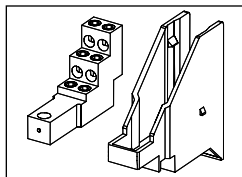
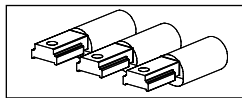
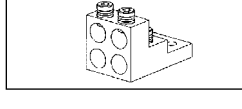
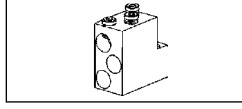
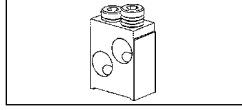
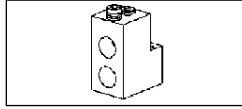
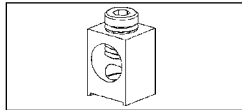
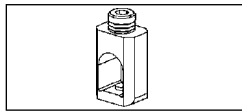
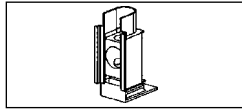
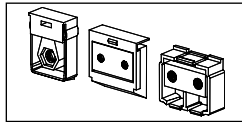
Ⓢ Up to 2 plugs per breaker (16 terminal points) may be mounted on DG, and FG breakers. Up to 3 plugs per breaker (24 terminal points) may be mounted on JG, LG, MG, NG, and PG breakers.

For JG to LG Frame 400 to 600 A	For MG Frame 800 A	For NG to PG Frame 1200 to 1600 A
Catalogue Number	Catalogue Number	Catalogue Number
Stored Energy Type SEALB SEALM SEALY SEALN SEALR CLKP	Stored Energy Type SEAMB SEAMM SEAMY SEAMN SEAMR CLKP	Motor Operator Type MTRPB MTRPM MTRPY MTRPN MTRPR CLKP

For JG Frame 400 A	For LG Frame 600 A	For MG Frame 800 A	For NG Frame 1200 A	For PG Frame 1600 A
Catalogue Number	Catalogue Number	Catalogue Number	Catalogue Number	Catalogue Number
PCBJRC3 PCBJFC3	PCBLRC3 PCBLFC3	PCBMRC3 —	PCBNRC3 —	— —
DCAJRC3 DCAJFC3	DCALRC3 DCALFC3	DCAMRC3 DCAMFC3	DCANRC3 DCANFC3	— —
DCHP	DCHP	DCHP	DCHP	—
DCIP	DCIP	DCIP	DCIP	—
PCTL83	PCTL83	PCTM83	PCTN83	—
PCXJ3	PCXL3	PCXM3	PCXN3	—
DCXJ3	DCXL3	DCXM3	DCXN3	—
PCXLT	PCXLT	PCXMT	PCXPT	—

External Accessories

Connections



Note: pictures provide graphical representations only.

Description	For DG Frame 150 A	For FG Frame 250 A
	Catalogue Number	Catalogue Number
Nut Keeper Plates For ring/tongue terminal or bus bar connections. (For metric threads on other than the JG or LG frame, change "TNK" to "TMK") 1 Nut Keeper Plate Kit of 3	TNKD TNKD3	TNKF TNKF3
Mechanical Lugs <i>Steel Wrap Around Body (Cu Wire Only)</i> Cable Size; (cables per phase) Single Lug Kit of 3	#8-1/0; 1-hole TW1DG20 3TW1DG20	#4-350 kcmil; 1-hole TW1FG350 3TW1FG350
<i>Aluminum Body (Al or Cu Wire)</i> Cable Size; (cables per phase) Single Lug Kit of 2 Kit of 3 Cable Size; (cables per phase) Single Lug Kit of 2 Kit of 3 Cable Size; (cables per phase) Single Lug Kit of 3	#6-3/0; 1-hole TA1DG30 — 3TA1DG30 — — — — —	#4-350 kcmil; 1-hole TAW1FG350 — 3TAW1FG350 — — — —
<i>Copper Body (Cu Wire Only)</i> Cable Size; (cables per phase) Single Lug Kit of 2 Kit of 3 Cable Size; (cables per phase) Single Lug	#6-3/0; 1-hole TC1DG30 [Ⓞ] — 3TC1DG30 [Ⓞ] — —	#4-350 kcmil; 1-hole TCW1FG350 [Ⓞ] — 3TCW1FG350 [Ⓞ] — —
Compression Lugs Cable Size; (cables per phase) Kit of 2 Kit of 3 Cable Size; (cables per phase) Kit of 2 Kit of 3 Cable Size; (cables per phase) Kit of 3	#14-2/0; 1-cable 2CLD20 3CLD20 — — —	#4-350 kcmil; 1-cable — 3CLF350 — — —
Distribution Lugs (Cu Wire Only) Cable Size; (cables per phase) Single Lug Kit of 3 Cable Size; (cables per phase) Single Lug Kit of 3	#14-#2; 3-hole TA3DG02 3TA3DG02 #14-#4; 6-hole TA6DG04 3TA6DG04	#14-#1; 2-hole and #14-2/0; 1-hole TA3FG20 3TA3FG20 #14-#4; 6-hole TA6FG04 3TA6FG04
Control Wire Terminals Control Wire Terminal (Single) Control Wire Terminal (Kit of 3)	— —	— —

Ⓞ Required for 100% rated breakers. Requires 90°C cable sized at 75°C ampacity.

For JG Frame 400 A	For LG Frame 600 A	For MG Frame 800 A	For NG Frame 1200 A	For PG Frame 1600 A
Catalogue Number	Catalogue Number	Catalogue Number	Catalogue Number	Catalogue Number
FBCJ3 ^① —	FBCL3 ^① —	FBCM3 ^① —	SSBP SSBPH	SSBP SSBPH
RTLJSR RTLJLR SRTJR3 RTLJSF RTLJLF SRTJF3 — —	— — — — — — RTLLSF SRTL3F3	— — — — — — RTLMSF SRTMF3	— — — — — — RTLNSF SRTNF3	— — — — — — — —
TSSL3 TSLL3	TSSL3 ^② TSLL3 ^②	TSSM3 TSLM3	TSSP3 TSLP3	TSSP3 TSLP3
IPBM	IPBM	IPBM	IPBP	IPBP
—	—	—	—	LMAP1600 ^③
— —	— —	— —	— —	MBPG1600 MBPG1601

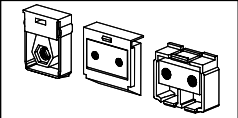
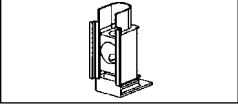
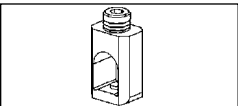

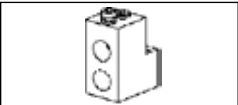
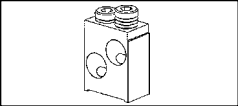
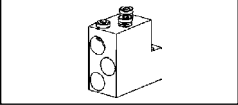
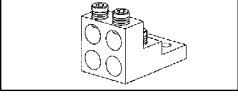
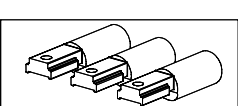

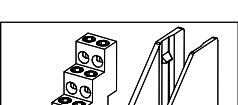

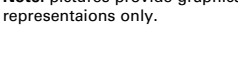
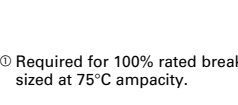


① Consult Siemens for availability.

② Not for use with standard AI terminals. Use Standard Shield for rear connection and Extended Shield for bus - bar connection.

③ Kit includes connection for one side of breaker only. Order quantity 2 if connecting line and load side.

VL External Accessories

Connections

Description	For DG Frame 150 A	For FG Frame 250 A
	Catalogue Number	Catalogue Number
 <p>Nut Keeper Plates For ring/tongue terminal or bus bar connections. (For metric threads on other than the JG or LG frame, change "TNK" to "TMK") 1 Nut Keeper Plate Kit of 3</p>	TNKD TNKD3	TNKF TNKF3
 <p>Mechanical Lugs <i>Steel Wrap Around Body (Cu Wire Only)</i> Cable Size; (cables per phase) Single Lug Kit of 3</p>	#8-1/0; 1-hole TW1DG20 3TW1DG20	#4-350 kcmil; 1-hole TW1FG350 3TW1FG350
 <p><i>Aluminum Body (Al or Cu Wire)</i> Cable Size; (cables per phase) Single Lug Kit of 2</p>	#6-3/0; 1-hole TA1DG30 —	#4-350 kcmil; 1-hole TAW1FG350 —
 <p>Kit of 3</p>	3TA1DG30	3TAW1FG350
 <p>Cable Size; (cables per phase)</p>	—	—
 <p>Single Lug</p>	—	—
 <p>Kit of 2</p>	—	—
 <p>Kit of 3</p>	—	—
 <p>Cable Size; (cables per phase) Single Lug</p>	— —	— —
 <p>Kit of 3</p>	—	—
 <p><i>Copper Body (Cu Wire Only)</i> Cable Size; (cables per phase) Single Lug Kit of 2</p>	#6-3/0; 1-hole TC1DG30 ^① —	#4-350 kcmil; 1-hole TCW1FG350 ^① —
 <p>Kit of 2</p>	—	—
 <p>Kit of 3</p>	3TC1DG30 ^①	3TCW1FG350 ^①
 <p>Cable Size; (cables per phase) Single Lug</p>	— —	— —
 <p>Compression Lugs Cable Size; (cables per phase) Kit of 2 Kit of 3</p>	#14-2/0; 1-cable 2CLD20 3CLD20	#4-350 kcmil; 1-cable — 3CLF350
 <p>Cable Size; (cables per phase) Kit of 2</p>	—	—
<p>Cable Size; (cables per phase) Kit of 3</p>	— —	— —
<p>Distribution Lugs (Cu Wire Only) Cable Size; (cables per phase) Single Lug Kit of 3</p>	#14-#2; 3-hole TA3DG02 3TA3DG02	#14-#1; 2-hole and #14-2/0; 1-hole TA3FG20 3TA3FG20
<p>Cable Size; (cables per phase) Single Lug Kit of 3</p>	#14-#4; 6-hole TA6DG04 3TA6DG04	#14-#4; 6-hole TA6FG04 3TA6FG04
<p>Control Wire Terminals Control Wire Terminal (Single) Control Wire Terminal (Kit of 3)</p>	— —	— —

Note: pictures provide graphical representations only.

① Required for 100% rated breakers. Requires 90°C cable sized at 75°C ampacity.

For JG Frame 400 A	For LG Frame 600 A	For MG Frame 800 A	For NG Frame 1200 A	For PG Frame 1600 A
Catalogue Number	Catalogue Number	Catalogue Number	Catalogue Number	Catalogue Number
TMKJ TMKJ3 <i>metric only</i>	TNKL TNKL3	TNKM TNKM3	TNKP TNKP3	TNKP TNKP3
1/0-600 kcmil; 1-hole TW1JG600 3TW1JG600	— — —	— — —	— — —	— — —
3/0-250 kcmil; 2-hole TA2JG250 — 3TA2JG250 AL: 250-750 kcmil CU: 3/0-600 kcmil; 1-hole TA1JG750 — 3TA1JG750 — — —	#2-600 kcmil; 2-hole — — 3TA2LG600LD ^① 3TA2LG600LN ^② AL: 250-750 kcmil CU: 3/0-600 kcmil; 1-hole TA1JG750 (400A max) — 3TA1JG750 (400A max) — — —	1/0-500 kcmil, 3-hole TA3MG500 3TA3MG500 500 -750 kcmil; 2-hole TA2MG750 — 3TA2MG750 #2-600 kcmil; 3-hole — 3TA3MG600 ^④	1/0-500 kcmil; 4-hole — 2TA4NG500 3TA4NG500 3TA4NG500H ^③ 500 -750 kcmil; 3-hole — 2TA3NG750 3TA3NG750 — —	1/0-750 kcmil; 6-hole — — 3TA6PG750 ^③ 600-750 kcmil; 4-hole TA4P750 ^③ — 300-600 kcmil; 5; 6-hole TA5P600 ^③ TA6R600 ^③ —
3/0-250 kcmil; 2-hole TC2JG250 ^③ — — 3/0-750 kcmil; 1-hole TC1JG750 ^③	#2-600 kcmil; 2-hole — — 3TC2LG600LD ^{①③} 3TC2LG600LN ^{②③} — —	1/0-500 kcmil; 3-hole TC3MG500 ^③ — — — —	1/0-500 kcmil; 4-hole — — 3TC4NG500 ^③ — —	— — — — 300-600 kcmil; 5-hole TC5R600 ^{③④}
#6-350 kcmil; 1-cable — 3CLJ350 250-600 kcmil; 1-cable 3CLJ600 — 250-750 kcmil; 1-cable 3CLJG750 —	#6-350 kcmil; 2-cable — 6CLL350 (kit of 6) 250-750 kcmil; 1-cable 3CLL750 — 250-600 kcmil; 2-cable 6CLL600 (kit of 6) —	— — — — — —	1/0-500 kcmil; 4-cable — 12CLN500 (kit of 12) — — — — —	— — — — — —
#14-#4; 12-hole TA12JG04 3TA12JG04 #14-2/0; 6-hole TA6JG20 3TA6JG20	— — — — —	— — — — —	— — — — —	— — — — —
TA2JG250PT —	— 3TA2LG600LNPT	TA3MG500PT —	— 3TA4NG500PT	— —

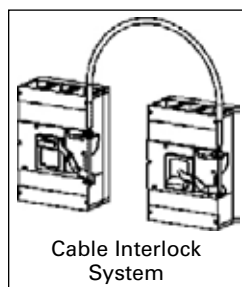
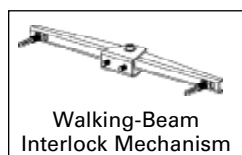
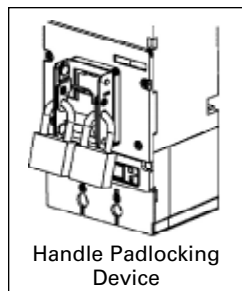
All lug kits include the nut keepers.
^① Mounted on Load Side Only.
^② Mounted on Line Side Only.

^③ Required for 100% rated breakers. Requires 90°C cable sized at 75°C ampacity.
^④ Requires extended modified shield.

^⑤ Used only with LMAP1600 mounting base.
^⑥ Used only with MBPG1600 or MBPG1601 mounting base.

VL External Accessories

General

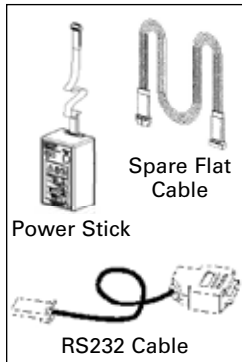
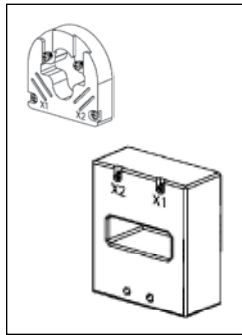


Description	For DG Frame 150 A	For FG Frame 250 A
	Catalogue Number	Catalogue Number
Handle Padlocking Device To padlock breaker toggle in the "OFF" position. Accepts up to 3 padlocks with 5–8 mm shackles.	HPLF	HPLF
Handle Blocking Device For holding the handle in the "ON" position. Not a lockout/tagout device.	HBDF	HBDF
Walking-Beam Interlock Mechanism Provides mechanical interlocking between two adjacent circuit breakers. Fixed mounted breakers Note: Both breakers must be of the same frame size.	WBMFFM	WBMFFM
Cable Interlock Mechanism Provides mechanical interlocking between 2 circuit-breakers - includes operator mechanism for one circuit breaker only. Combination with the next larger or smaller frame size is possible.	CBTF	CBTF
Interlock Cable Cable only, to connect 2 circuit breakers. Cable length 18 in. .46m (recommended up to 250A) Cable length 36 in. .91m (recommended from 400–800A) Cable length 54 in. 1.37m (recommended from 1200–1600A)	CBCF18 CBCM36 CBCP54	CBCF18 CBCM36 CBCP54
Mounting Screw Kit Includes the necessary hardware to mount a circuit breaker to the user's prepared surface Kit with 2 screws (SAE thread) Kit with 4 screws (SAE thread)	MSKF2 MSKF4	MSKF2 MSKF4
Trip Adjustment Sealing Cover Includes a trip unit cover to prevent tampering or adjustment of trip settings. Seal not included. Thermal-Magnetic Trip Units	TSCFTM	TSCFTM

For JG Frame 400 A	For LG Frame 600 A	For MG Frame 800 A	For NG Frame 1200 A	For PG Frame 1600 A
Catalogue Number	Catalogue Number	Catalogue Number	Catalogue Number	Catalogue Number
HPLL	HPLL	HPLM	HPLP	HPLP
HBDL	HBDL	HBDM	HBDP	HBDP
WBMLFM	WBMLFM	WBMMFM	WBMPFM	WBMPFM
CBTL	CBTL	CBTM	CBTP	CBTP
— CBCM36 CBCP54	— CBCM36 CBCP54	— CBCM36 CBCP54	— — CBCP54	— — CBCP54
— MSKL4	— MSKL4	— MSKM4	— MSKP4	— MSKP4
TSLTM	TSLTM	TSCMTM	—	—

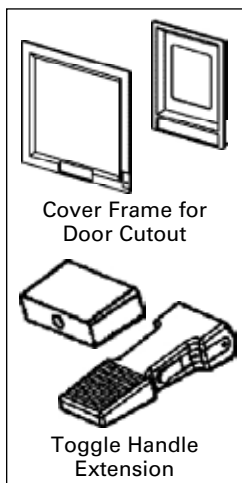
VL External Accessories

Ground Sensors & Electronic Accessories



Description	For DG Frame 150 A	For FG Frame 250 A
	Catalogue Number	Catalogue Number
Neutral Current Transformer (Ground Sensor, N-pole) Neutral = 35/60A Neutral = 100A Neutral = 150A Neutral = 250A Neutral = 400A Neutral = 600A Neutral = 800A Neutral = 1000/1200A Neutral = 1600A	NGSD060 NGSF100 NGSF150 — — — — — —	— NGSF100 NGSF150 NGSJ250 — — — — —
Communications & Electronics Power Stick - Hand held, battery operated power supply for LCD trip units. (Requires two -9V batteries) For programming and trip testing only.	EPSP18V	EPSP18V
Com20 Profibus Communications Module with ZSI for electronic trip units (order cable separately)	COMPRO20	COMPRO020
Com21 Modbus Communications Module with ZSI for electronic trip units (order cable separately)	COMM0D21	COMM0D21
Cable for COM20/21 and power supply.....5ft. (1.5m)	COMKIT13	COMKIT13
Cable for COM20/21, 3.0m (9.8ft).	COMKIT6	COMKIT6
Spare flat cable for Test Kits	COMPCA	COMPCA
Addressing Plug - Assigns a field bus address without a PC by plugging into Com20/21	3UF79100AA00	3UF79100AA000

Door Cutouts & Extensions



Cover Frame for Door Cutout For fixed or plug-in mounted circuit breakers. (IP30) 2-Pole & 3-Pole	BZLF3	BZLF3
For breakers with stored energy operator. (IP40)	BZLFRHSE	BZLFRHSE
Circuit-breaker draw-out mounted and toggle handle operated. Kit includes cover frame (bezel) and escutcheon as needed. (IP40) (not for use with rotary handle or stored energy operator)	BZLFBDC	BZLFBDC
Toggle Handle Extension For spare or replacement. (One is included with each NG - PG frame.)	—	—

For JG Frame 400 A	For LG Frame 600 A	For MG Frame 800 A	For NG Frame 1200 A	For PG Frame 1600 A
Catalogue Number	Catalogue Number	Catalogue Number	Catalogue Number	Catalogue Number
— — — NGSJ250 NGSL400 — — — —	— — — — NGSL400 NGSM600 — — — —	— — — — — NGSM600 NGSN800 — — —	— — — — — — NGSN800 NGSP120 —	— — — — — — — NGSP120 NGSP160
EPSP18V	EPSP18V	EPSP18V	EPSP18V	EPSP18V
COMPRO20	COMPRO20	COMPRO20	COMPRO20	COMPRO20
COMMOD21	COMMOD21	COMMOD21	COMMOD21	COMMOD21
COMKIT4	COMKIT4	COMKIT5	COMKIT5	COMKIT5
COMKIT7	COMKIT7	COMKIT8	COMKIT8	COMKIT8
COMPCA	COMPCA	COMPCA	COMPCA	COMPCA
3UF79100AA000	3UF79100AA000	3UF79100AA000	3UF79100AA000	3UF79100AA000
BZLL3	BZLL3	BZLM3	BZLP3	BZLP3
BZLLRHSE	BZLLRHSE	BZLMRHSE	BZLPRHSE	BZLPRHSE
BZLLBDC	BZLLBDC	BZLMBDC	BZLPBDC	BZLPBDC
THEL	THEL	THEM	THEP	THEP