

Accessories

Field Fit Kit Catalog Numbers

Alarm Lockout

| Description | Pole Location | Frame | | |
|----------------|---------------|---------------|---------|---------|
| | | EG, JG and LG | NG | RG ① |
| Make/Break | Left | — | A1L5LPK | — |
| | Right | ALM1M1BEPK ② | A1L5RPK | A1L6RPK |
| 2 Make/2 Break | Left | — | A2L5LPK | — |
| | Right | ALM2M2BEPK ③ | A2L5RPK | A2L6RPK |

| Description | Pole Location | For Use in Frame | Contact Type | Catalog Number |
|-----------------|---------------|------------------|--------------|----------------|
| Make/Break | Right | EG | Silver | ALM1M1BEPK |
| 2 Make/ 2 Break | Right | EG | Silver | ALM2M2BEPK |
| Make/Break | Right | JG and LG | Silver | ALM1M1BJPK |
| 2 Make/ 2 Break | Right | JG and LG | Silver | ALM2M2BJPK |
| Make/Break | Right | EG | Gold | ALM1M1BEEPK |
| 2 Make/ 2 Break | Right | EG | Gold | ALM2M2BEEPK |
| Make/Break | Right | JG and LG | Gold | ALM1M1BEJPK |
| 2 Make/ 2 Break | Right | JG and LG | Gold | ALM2M2BEJPK |

Auxiliary Switch

| Description | Pole Location | Frame | | |
|-------------|---------------|---------------|---------|---------|
| | | EG, JG and LG | NG | RG ① |
| 1A, 1B | Left | — | A1X5PK | — |
| | Right | AUX1A1BPK | A1X5PK | — |
| 2A, 2B | Left | — | A2X5PK | — |
| | Right | AUX2A2BPK | A2X5PK | A2X6RPK |
| 3A, 3B | Left | — | A3X5LPK | — |
| | Right | — | A3X5RPK | — |
| 4A, 4B | Left | — | — | — |
| | Right | — | — | A4X6RPK |

| Description | Pole Location | For Use in Frame | Contact Type | Catalog Number |
|-------------|---------------|------------------|--------------|----------------|
| 1A, 1B | Right | EG/JG/LG | Silver | AUX1A1BPK |
| 2A, 2B | Right | EG/JG/LG | Silver | AUX2A2BPK |
| 1A, 1B | Right | EG/JG/LG | Gold | AUX1E1BPK |
| 2A, 2B | Right | EG/JG/LG | Gold | AUX2E2BPK |

Auxiliary Switch/Alarm Lockout

| Description | Pole Location | Frame | | |
|-------------|---------------|---------------|----------|------|
| | | EG, JG and LG | NG | RG ① |
| — | Left | — | AA115LPK | — |
| | Right | AUXALRMEPK ④ | AA115RPK | — |

| Description | Pole Location | For Use in Frame | Contact Type | Catalog Number |
|---------------|---------------|------------------|--------------|----------------|
| 1A/1B & 1M/1B | Right | EG | Silver | AUXALRMEPK |
| 1A/1B & 1M/1B | Right | JG and LG | Silver | AUXALRMJPK |
| 1A/1B & 1M/1B | Right | EG | Gold | AUXALRMEEPK |
| 1A/1B & 1M/1B | Right | JG and LG | Gold | AUXALRMEJPK |

Notes

- ① All accessories mount in the RH cavity which will accept one each of shunt trip, UVR, auxiliary switch and alarm switch.
- ② Part number for JG and LG is ALM1M1BJPK.
- ③ Part number for JG and LG is ALM2M2BJPK.
- ④ Part number for JG and LG is AUXALRMJPK.

Undervoltage Release Mechanism

The undervoltage release mechanism monitors a voltage (typically a line voltage) and trips the circuit breaker when the voltage falls to between 70 and 35 percent of the solenoid coil rating.

The undervoltage release mechanism consists of a continuous rated solenoid with a plunger and tripping lever mounted in a plug-in module. The tab on the tripping lever resets the undervoltage release mechanism when normal voltage has been restored and the circuit breaker handle is moved to the reset (or OFF) position. With less than pickup voltage applied to the undervoltage release mechanism, the circuit breaker contacts will not touch when a closing operation is attempted.

Note: Undervoltage release mechanism accessories are not designed for, and should not be used as, circuit interlocks.

Accessory Terminal Block (R-Frame)

(For fixed-mounted configuration.)

Internal accessory wiring leads are normally supplied with pigtail leads (18 AWG) that exit from the right side of the circuit breaker. Where specified, fixed-mounted accessory terminal blocks are available. A maximum of one 24-point terminal block can be installed on the right side of the circuit breaker for the internal accessories.

For convenience in determining the appropriate number of terminal block points required, refer to **Page V4-T2-378**.

PowerNet and Zone Interlock Kits (OPTIM 550 only) K-, L- and N-Frames

Eaton's PowerNet Communications Kit can be ordered to add PowerNet communications to an existing OPTIM 550 breaker in the field. An 18-inch (457.2 mm) wiring pigtail is routed to the rear of the breaker: two wires for PowerNet and two wires for 24 Vdc (45 mA load). It is recommended that the power supply be an "isolated high quality" unit.

K-Frame and HMCP (K) Auxiliary Switch

| Number of Contacts A and B | Mounting Location (Pole) | Factory Mounted Connection Type and Location 18-Inch (457.2 mm) Pigtail Leads | | | Terminal Block | Field Mounted Factory Installation Kit ① | |
|----------------------------|--------------------------|---|---------------|---------------|----------------|--|----------------|
| | | Same Side | Rear ② | Opposite Side | | Pigtail Leads | Terminal Block |
| | | Suffix Number | Suffix Number | Suffix Number | | Same Side Suffix Number | Catalog Number |
| 1 | Left | A01 | A02 | A03 | A04 | A1X3PK | A1X3LTK |
| | Right ②③ | A05 | A06 | A07 | A08 | A1X3PK | A1X3RTK ④ |
| 2 | Left | A09 | A10 | — | A11 | A2X3PK | A2X3LTK |
| | Right ②③ | A12 | A13 | — | A14 | A2X3PK | A2X3RTK ④ |
| | Right | A21 | A22 | — | — | 1482D28G10 ⑥⑦ | — |
| 3 | Left | A18 | — | — | A15 | A3X3LPK | A3X3LTK |
| | Right ③ | A17 | — | — | A16 | A3X3RPK | A3X3RTK ④ |

L-, HMCP (L) and (M) Frames and Auxiliary Switch

| Number of Contacts A and B | Mounting Location (Pole) | Factory Mounted Connection Type and Location 18-Inch (457.2 mm) Pigtail Leads | | | Terminal Block | Field Mounted Factory Installation Kit ① | |
|----------------------------|--------------------------|---|---------------|---------------|----------------|--|----------------|
| | | Same Side | Rear ② | Opposite Side | | Pigtail Leads | Terminal Block |
| | | Suffix Number | Suffix Number | Suffix Number | | Same Side Suffix Number | Catalog Number |
| 1 | Left | A01 | A02 | A03 | A04 | A1X4PK | A1X4LTK |
| | Right ② | A05 | A06 | A07 | A08 | A1X4PK | A1X4RTK ④ |
| 2 | Left | A09 | A10 | — | A11 | A2X4PK | A2X4LTK |
| | Right ② | A12 | A13 | — | A14 | A2X4PK | A2X4RTK ④ |
| 3 | Left | A18 | — | — | A15 | A3X4PK | A3X4LTK |
| | Right ② | A17 | — | — | A16 | A3X4PK | A3X4RTK ④ |

N-Frame and HMCP (N) Auxiliary Switch

| Number of Contacts A and B | Mounting Location (Pole) | Factory Mounted Connection Type and Location 18-Inch (457.2 mm) Pigtail Leads | | | Terminal Block | Field Mounted Factory Installation Kit ① | |
|----------------------------|--------------------------|---|---------------|---------------|----------------|--|----------------|
| | | Same Side | Rear ② | Opposite Side | | Pigtail Leads | Terminal Block |
| | | Suffix Number | Suffix Number | Suffix Number | | Same Side Suffix Number | Catalog Number |
| 1 | Left | A01 | A02 | A03 | A04 | A1X5PK | A1X5LTK |
| | Right ② | A05 | A06 | A07 | A08 | A1X5PK | A1X5RTK ④ |
| 2 | Left | A09 | A10 | — | A11 | A2X5PK | A2X5LTK |
| | Right ② | A12 | A13 | — | A14 | A2X5PK | A2X5RTK ④ |
| 3 | Left | A18 | — | — | A15 | A3X5LPK | A3X5LTK |
| | Right ② | A17 | — | — | A16 | A3X5RPK | A3X5RTK ④ |

R-Frame Auxiliary Switch (RH Only)

| Number of Contacts A and B | Factory Mounted Connection Type and Location 18-Inch (457.2 mm) Pigtail Leads | Field Mounted Field Installation Kits ① |
|----------------------------|---|---|
| | Suffix Number ⑤ | Pigtail Leads Catalog Number ⑤ |
| 2 | A12 | A2X6RPK |
| 4 | A19 | A4X6RPK |

Notes

- ① Listed with Underwriters Laboratories for field installation under E64983.
- ② Standard mounting location—leads exit rear of breaker.
- ③ Breakers with K-Frame OPTIM 550 can only accept accessories in left pole.
- ④ Not for use on four-pole circuit breakers.
- ⑤ A maximum of two auxiliary switches (any combination of 2a/2b or 4a/4b plug-in modules may be installed in a circuit breaker).
- ⑥ This option is not field installable.
- ⑦ Available on the OPTIM 550 only. Communications are not available with this option.