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<th>UPS Model</th>
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<td>380/400/415/480</td>
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**Eaton 9390 20–80 kVA UPS SYSTEM**

**208V/220V INPUT AND 208V/220V OUTPUT**

**380V/400V/415V/480V INPUT AND 380V/400V/415V/480V OUTPUT**

**SINGLE-FEED OR DUAL-FEED**

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**NOTE**

1. See Paragraph 4.7 on page 4–10 for dual-feed.
2. See Note 7 on page A–14 for neutral bonding instructions.

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**Eaton 9390 20–80 kVA UPS SYSTEM**

**208V/220V INPUT AND 208V/220V OUTPUT**

**380V/400V/415V/480V INPUT AND 380V/400V/415V/480V OUTPUT**

**SINGLE-FEED OR DUAL-FEED**

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**DESCRIPTION:**

**UPS SYSTEM ONELINE DRAWING**

**DRAWING NO:** 164201603—5

**SHEET:** 1 of 6

**REVISION:** C

**DATE:** 071608
Eaton 9390IT 20–40 kVA UPS SYSTEM WITH INTERNAL BATTERIES
208V INPUT/208V OUTPUT AND 480V INPUT/480V OUTPUT
SINGLE-FEED OR DUAL-FEED

NOTE
1. See Paragraph 4.7 on page 4–10 for dual-feed.
2. See Note 7 on page A–14 for neutral bonding instructions.

DESCRIPTION: UPS SYSTEM ONELINE DRAWING

DRAWING NO: 164201603—5  SHEET: 2 of 6
REVISION: D  DATE: 021509

FACTORY INSTALLED INTERNAL CONNECTIONS
BATTERY CABINET (Internal)
FACTORY INSTALLED INTERNAL CONNECTIONS
BATTERY AUX
BATTERY UVR
BATTERY BREAKER

INPUT CONTACTOR (K1)
FUSE
RECTIFIER
OUTPUT CONTACTOR (K3)
FUSE
ALARM RELAY
REMOTE EPO
X-SLOT INTERFACE
BUILDING ALARMS

INPUT CONTACTOR (K1)
FUSE
REMOTE EPO
X-SLOT INTERFACE
BUILDING ALARMS

INVERTER
STATIC SWITCH
BATTERY CONVERTER
BATTERY AUX
BATTERY UVR
BATTERY BREAKER

AC INPUT TO UPS RECTIFIER AND BYPASS (SINGLE FEED)
3 or 4 WIRE A–B–C ROTATION
AC INPUT TO BYPASS (DUAL FEED)
3 or 4 WIRE A–B–C ROTATION
(See Drawing 164201603—10)

AC INPUT TO UPS RECTIFIER AND BYPASS (SINGLE FEED)
3 or 4 WIRE A–B–C ROTATION
AC INPUT TO BYPASS (DUAL FEED)
3 or 4 WIRE A–B–C ROTATION
(See Drawing 164201603—10)
MIB: MAINTENANCE ISOLATION BREAKER
MBP: MAINTENANCE BYPASS BREAKER

**TYPICAL MAINTENANCE BYPASS PANEL POWER FLOW**

**NOTE** If installing, as part of the UPS system, a maintenance bypass without a rectifier input breaker, a minimum of two separate feeds with upstream feeder breakers, or one feed with two upstream feeder breakers, must be provided: one for the UPS and one for the maintenance bypass input. DO NOT use one feed or a single-feeder breaker to supply both the UPS and the maintenance bypass.
A — AC Input to UPS Rectifier (dual-feed)
B — AC Input to UPS Rectifier (single-feed) and Bypass (single-feed and dual-feed)
C — DC Input from Battery
D — UPM AC Output to Parallel Tie Point
E — AC Input Source
F — System Bypass Input
G — Output to Critical Load
* — Overcurrent Protection Provided by Others

NOTE
1. UPM and system bypass input feeds must come from the same source.
2. Remove jumper for dual-feed.
3. See Note 29 on page A—29 for neutral bonding instructions.

TYPICAL PARALLEL SYSTEM
(1+1 AND 2+0 CONFIGURATIONS)

DESCRIPTION: UPS SYSTEM ONELINE DRAWING
DRAWING NO: 164201603—5 SHEET: 4 of 6
REVISION: A DATE: 091505

A-10 Eaton® 9390 UPS (20–80 kVA) and 9390IT (20–40 kVA) Installation and Operation Manual • 164201603 Rev 4 www.eaton.com/powerquality
NOTE 1. UPM and system bypass input feeds must come from the same source.

2. Remove jumper for dual-feed.

3. See Note 29 on page A–29 for neutral bonding instructions.

TYPICAL PARALLEL SYSTEM
(2+1 AND 3+0 CONFIGURATIONS)

A – AC Input to UPS Rectifier (dual-feed)
B – AC Input to UPS Rectifier (single-feed) and Bypass (single-feed and dual-feed)
C – DC Input from Battery
D – UPM AC Output to Parallel Tie Point
E – AC Input Source
F – System Bypass Input
G – Output to Critical Load
* – Overcurrent Protection Provided by Others
NOTE 1. UPM and system bypass input feeds must come from the same source.

2. Remove jumper for dual-feed.

3. See Note 29 on page A–29 for neutral bonding instructions.

TYPICAL PARALLEL SYSTEM
(3+1 AND 4+0 CONFIGURATIONS)