

Eaton 3ph UPS Accessories



Powering Business Worldwide

Eaton’s range of accessories for 3ph UPS systems provides flexible installation options that expedite deployment and save valuable space. The aesthetically designed accessories enable coordinated solutions that enhance both safety and reliability whilst reducing installation time and total cost. All Eaton are designed by UPS standard IEC 62040-1-2-3 and/or Switchgear standard IEC 61439-1-2-3.

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*Please visit www.eaton.eu websites and contact local sales for more information

Eaton Breaker Kits

Eaton Breaker Kits include the same Eaton breakers which are used in the battery cabinets. Breaker Kits can be used with external battery solutions for example, racks.

Features

Kits include a breaker, and a shunt trip coil for remote tripping. 700A version also includes the extension handle. See separate datasheets for more detailed info.



Eaton Circuit-breaker, 3p, 200A, NZMN3-A200



Eaton Circuit-breaker, 3p, 400A, NZMN3-A400

Part number	Description	Breaker Type
For 8-200kW power range. Kits include 24V Shunt Trip for 93PS and 93PM.		
P-122000219	KIT EXT BATT MCCB 63A	MCCB 63A 3P 415VAC/500VDC 50/15kA NZMN1 (Eaton Moeller)
P-122000220	KIT EXT BATT MCCB 160A	MCCB 160A 3P 415VAC/500VDC 50/15kA NZMN1 (Eaton Moeller)
P-122000182	KIT EXT BATT MCCB 200A	MCCB 200A 3P 415VAC/750VDC 50/30kA NZMN2 (Eaton Moeller)
P-122000183	KIT EXT BATT MCCB 400A	MCCB 400A 3P 415VAC/750VDC 50/30kA NZMN3 (Eaton Moeller)
P-122000184	KIT EXT BATT MCCB 500A	MCCB 500A 3P 415VAC/750VDC 50/30kA NZMN3 (Eaton Moeller)
P-122000180	KIT EXT BATT MCCB 700A	MCCB 700A 3P 600VDC 20/10kA ST24V+AUX (Eaton Cutler-Hammer)
For 9395/9395P power ranges. Kits include 48V Shunt Trip.		
P-122000194	KIT EXT BATT MCCB 800A	MCCB 800A 600VDC 20kA IEC 3P ST48V+AUX (Eaton Cutler-Hammer)
1027360	KIT EXT BATT MCCB 1200A	MCCB 1200A 600VDC 50kA UL 3P ST48V+AUX (Eaton Cutler-Hammer)
P-122000195	KIT EXT BATT MCCB 1600A	MCCB 1600A 600VDC 20kA IEC 3P ST48V+AUX (Eaton Cutler-Hammer)

External MBSs

External Maintenance Bypass Switches (MBS) add safety and reliability by enabling seamless transfers to bypass and isolation of the UPS system for maintenance. Eaton external MBSs are designed by UPS standard IEC 62040.



External MBS 50kW

Features

- Cabinet color: Black, RAL 7035
- IP rating: IP20
- Operation Temperature: 0-40C
- Relative humidity: 5-95%
- 100kW and 150kW with interlocking plate
- All cabinets are wall mounted

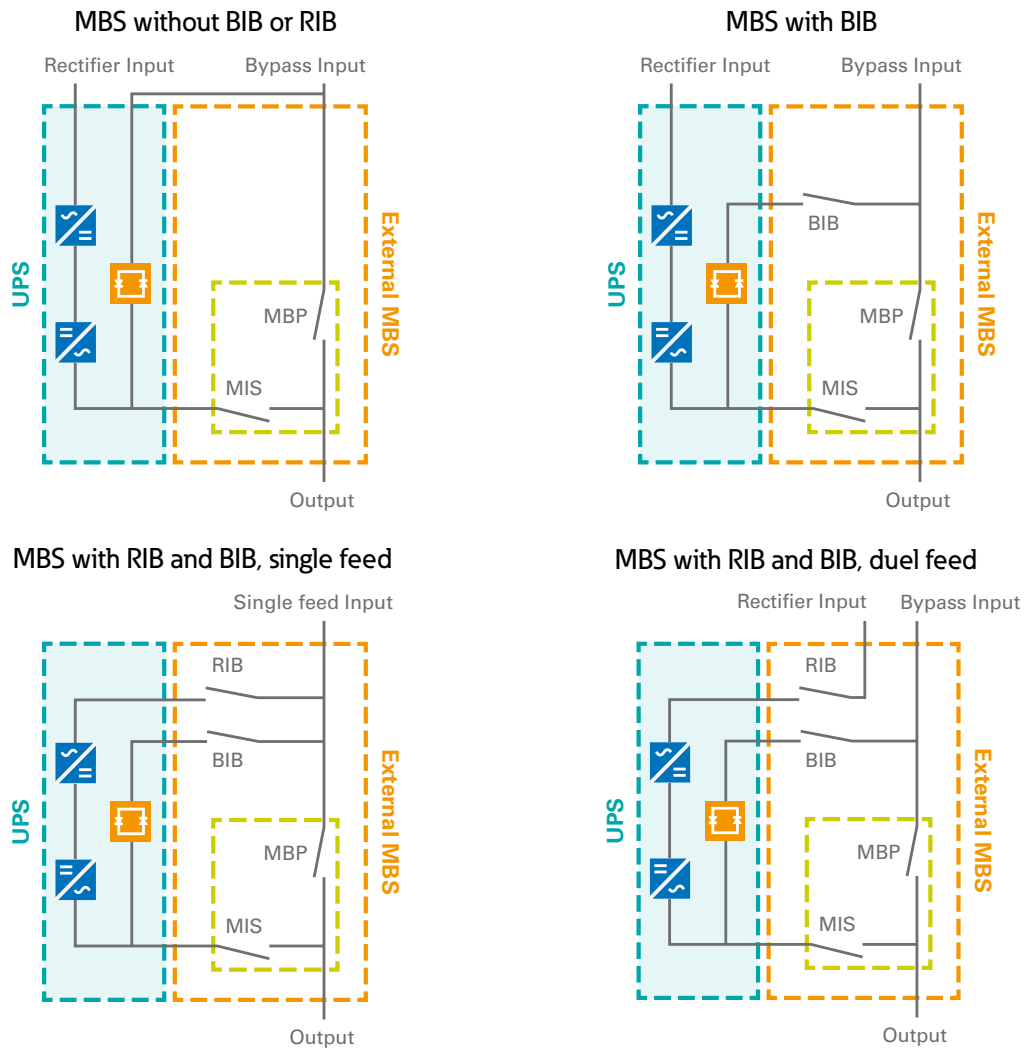


External MBS 100kW and 150kW



External MBS 100kW and 150kW door closed

External MBS wiring diagrams



Part number	Description	Width (mm)	Height (mm)	Depth (mm)	Weight (kg)
P-105000044-002	EXTERNAL MBS 20kW	506	514	275	26
P-105000044-003	EXTERNAL MBS 20kW WITH BIB	506	514	275	27
P-105000044-004	EXTERNAL MBS 20kW WITH BIB AND RIB (SINGLE FEED)	506	514	275	27
P-105000045-002	EXTERNAL MBS 40kW	506	514	275	26
P-105000045-003	EXTERNAL MBS 40kW WITH BIB	506	514	275	27
P-105000045-004	EXTERNAL MBS 40kW WITH BIB AND RIB (SINGLE FEED)	506	514	275	27
P-105000003-020	EXTERNAL MBS 50kW	560	635	159	25
P-105000003-046	EXTERNAL MBS 50kW WITH BIB	560	635	159	26
P-105000003-022	EXTERNAL MBS 100kW	710*	1553	260	87
P-105000003-023	EXTERNAL MBS 100kW WITH BIB	710*	1553	260	95
P-105000003-024	EXTERNAL MBS 100kW WITH BIB AND RIB (DUAL/SINGLE FEED)	710*	1553	260	108
P-105000003-026	EXTERNAL MBS 150kW	710*	1553	260	87
P-105000003-027	EXTERNAL MBS 150kW WITH BIB	710*	1553	260	95
P-105000003-028	EXTERNAL MBS 150kW WITH BIB AND RIB (DUAL/SINGLE FEED)	710*	1553	260	108

*20cm is required for both sides of the cabinet for air flow.

Battery cabinets

Eaton battery cabinets for 3ph UPSes minimize footprint, maximize safety and serviceability. In the offering there are empty cabinets, but also preloaded cabinets with batteries installed to reduce site installation time. All the Eaton battery cabinets are designed by the UPS standard IEC 62040.



Eaton 93P/E small battery cabinet for 93PS units, 8-20kVA

Features

- Front access cabinets designed to accommodate a range of high-density/high-rate VRLA batteries, combining long run time with small footprint
- DC rated battery circuit breaker provides protection and enables isolation for maintenance
- Slide-out battery trays with retaining latches and inter-tray connectors facilitate safe and easy maintenance
- Depending on the cabinet, side, rear, top and bottom cable entry points facilitate remote or "line-up and match" installation with 93PS, 93E and 93PM UPS
- Daisy-chain cabinets for extended runtime
- Cabinet wheels for easy off-loading and positioning
- Battery Cabinet Breaker sizing:
 - 63A - for 8-20kW UPS
 - 160A - for 8-40kW UPS
 - 200A - for 30-50kW UPS
 - 400A - for 80-100kW UPS
 - 500A - for 120-150kW UPS
 - 700A - for 160-200kW UPS

[Contact local Eaton sales for support with runtimes and battery cabinet selection](#)



Eaton 93P/E small battery cabinet for 93PM and 93E units, 30-150kVA

Part number	Description	Width (mm)	Height (mm)	Depth (mm)	Weight (kg)
Small cabinets for 8-20kW (93PS)					
P-105000041-001	93P/E-BAT-S-EMPTY (63A)	335	1300	700	106
P-105000041-002	93P/E-BAT-S-2x32-9Ah (63A)	335	1300	700	268
P-105000041-003	93P/E-BAT-S-3x32-9Ah (63A)	335	1300	700	349
P-105000041-004	93P/E-BAT-S-2x32-7Ah-LL (63A)	335	1300	700	268
P-105000041-005	93P/E-BAT-S-3x32-7Ah-LL (63A)	335	1300	700	349
Large cabinets for 8-40kW (93PS)					
P-105000042-001	93P/E-BAT-L-EMPTY (160A)	761	1750	700	179
P-105000042-002	93P/E-BAT-L-1x32-200W (160A)	761	1750	700	742
Small cabinets for 30-100kW (93PM/93E)					
P-105000017-001	93P/E-BAT-S-0x36-EMPTY (200A) M5 cables (30-60kVA)	575	1876	914	167
P-105000017-002	93P/E-BAT-S-1x36-110W (200A) (30-60kVA)	575	1876	914	517
P-105000017-004	93P/E-BAT-S-1x36-200W (200A) (30-60kVA)	575	1876	914	795
P-105000017-005	93P/E-BAT-S-0x36-EMPTY (200A) M6 cables (30-60kVA)	575	1876	914	167
P-105000017-006	93P/E-BAT-S-1x36-GNB P12V875 (200A) (30-60kVA)	575	1876	914	683
P-105000017-007	93P/E-BAT-S-1x36-GNB XP12V1800 (200A) (30-60kVA)	575	1876	914	971
P-105000018-001	93P/E-BAT-S-0x40-EMPTY (400A) M6 cables (80-100kVA)	575	1876	914	167
P-105000018-002	93P/E-BAT-S-1x36-200W (400A) (80-100kVA)	575	1876	914	795
P-105000018-003	93P/E-BAT-S-1x40-200W (400A) (80-100kVA)	575	1876	914	872
P-105000018-004	93P/E-BAT-S-1x36-GNB XP12V1800 (400A) (80-100kVA)	575	1876	914	971
P-105000018-005	93P/E-BAT-S-1x40-GNB XP12V1800 (400A) (80-100kVA)	575	1876	914	1061
Large cabinets for 80-200kW, shipped empty (93PM/93E)					
P-105000035-001	93P/E-BAT-L-EMPTY (400A) M6 cable lugs (80-100kW)	1086	1888	914	312
P-105000035-002	93P/E-BAT-L-EMPTY (400A) M8 cable lugs (80-100kW)	1086	1888	914	312
P-105000036-001	93P/E-BAT-L-EMPTY (500A) M6 cable lugs (120-150kW)	1086	1888	914	320
P-105000036-002	93P/E-BAT-L-EMPTY (500A) M8 cable lugs (120-150kW)	1086	1888	914	320
P-105000037-001	93P/E-BAT-L-EMPTY (700A) M6 cable lugs (150-200kW)	1086	1888	914	328
P-105000037-002	93P/E-BAT-L-EMPTY (700A) M8 cable lugs (150-200kW)	1086	1888	914	328
Large cabinets for 80-200kW, shipped with batteries installed					
P-105000038-001	93-BAT10-280 (400A) (CSB HRL 12280W) (80-100kVA)	1125	1879	808	1444
P-105000038-002	93-BAT10-330 (400A) (CSB HRL 12330W) (80-100kVA)	1125	1879	808	1625
P-105000038-003	93-BAT10-500 (400A) (CSB HRL 12500W) (80-100kVA)	1125	1879	808	2116
P-105000038-004	93-BAT10 (400A) (EMPTY) (80-100kVA)	1125	1879	808	412
P-105000039-001	93-BAT10-280 (700A) (CSB HRL 12280W) (150-200kVA)	1125	1879	808	1444
P-105000039-002	93-BAT10-330 (700A) (CSB HRL 12330W) (150-200kVA)	1125	1879	808	1625
P-105000039-003	93-BAT10-500 (700A) (CSB HRL 12500W) (150-200kVA)	1125	1879	808	2116
P-105000039-004	93-BAT10 (700A) (EMPTY) (150-200kVA)	1125	1879	808	412
Large cabinets for 9395/9395P, shipped with batteries installed					
1026960	9395-BAT10-540 (700A) (CSB HRL 12540W)	1125	1879	808	2116
1026961	9395-BAT10-EMPTY (700A)	1125	1879	808	412

Eaton 93PM Specific options and accessories

For Eaton 93PM UPS family there is a wide range of special options available. With these options deployment of the UPS system is greatly easier when the airflow and the cabling routes can be managed, and also the largest frame up to 200kW has the MBS options.

Eaton 93PM Top air exhaust kit

The Top Air Exhaust -kit converts the UPS cabinet airflow from Front-to-Rear to Front-to-Top, enabling direct placement against a wall and directing UPS exhaust away from any adjacent battery cabinets to prevent heating of the batteries and the resultant reduced battery life. This kit is available for 80-150kW 93PM units. This kit can only be assembled on the Eaton factory.

Eaton 93PM Top Cable access kit

The Top Cable Access -kit adds ample space for top cable entry whilst maintaining a compact footprint. This kit is available for 30-150kW 93PM units.



Eaton 93PM 200kW unit with SIAC MBS 4 switches (door removed)

Eaton 93PM EMC C2 kit for 30-50kW units

As a default all 93PM units are in EMC category C3. With EMC kit 93PM UPS with single 30-50kW power module in 50kW frame is suitable for environments requiring EMC category C2. This kit can only be assembled on the Eaton factory.

Eaton 93PM Sidecar MBS for 200kW frame, SIAC

Sidecar Integrated Accessory Cabinet (SIAC) MBS option for the 93PM 200kW frame, expands the internal MBS offering up to 200kW. Sidecar MBS option adds safety and reliability by enabling seamless and easy transfers to bypass for the UPS system maintenance. There are two different alternatives available, one with three switches: MBP+MIS and RIB, and one with four switches MBP+MIS, RIB and BIB. This kit can only be assembled on the Eaton factory.

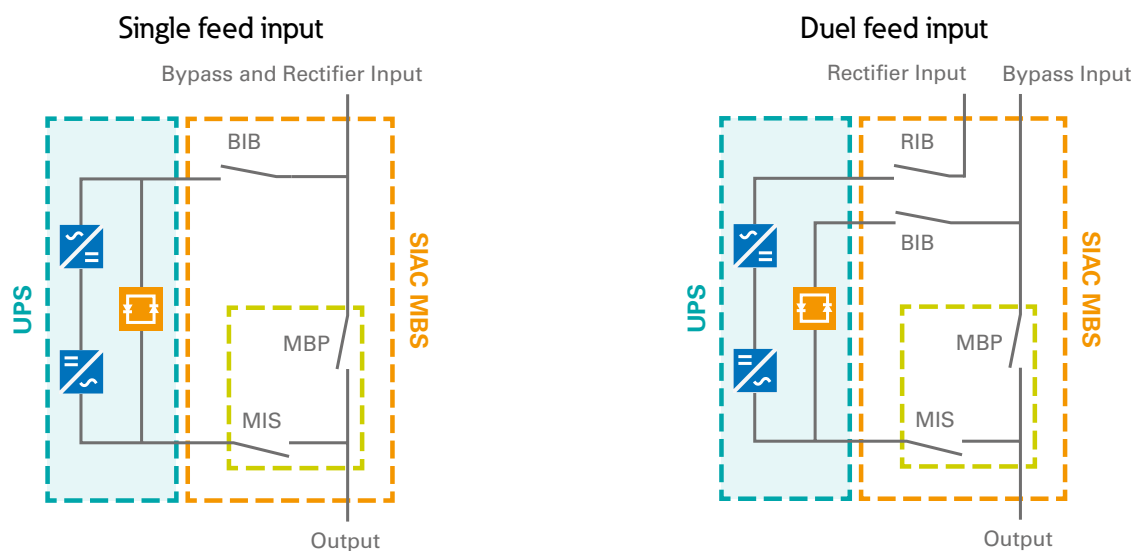


Eaton 93PM 30-150kW unit with Top cable access kit



Eaton 93PM 200kW with SIAC MBS and Top air exhaust kit

SIAC MBS wiring diagrams



Part number	Description	Width (mm)	Height (mm)	Depth (mm)	Weight (kg)
93PM Top air exhaust kit					
P-103000926	93PM top air exhaust kit 80-150kW units	560	1885	200 (a)	21
P-103000927	93PM top air exhaust kit 160-200kW units	760	1885	200 (a)	28
93PM Top Cable access kit					
P-103000719	93PM top cable access kit 30-150kW units	100 (b)	1885	920	18
93PM Sidecar MBS for 200kW frame (SIAC)					
P-103001249-002	Sidecar Integrated Accessory Cabinet MBS 200kW, 3-switches, single feed	206 (c)	1885	920	44 (d)
P-103001249-004	Sidecar Integrated Accessory Cabinet MBS 200kW, 4-switches, dual feed	206 (c)	1885	920	44 (d)
Other					
P-103001257	Single feed kit for 100 and 150kW frames, busbars	Inside the UPS frame. No notable effect on the UPS dimensions			
P-103001256	Single feed kit for 200kW frame, cables	Inside the UPS frame. No notable effect on the UPS dimensions			
P-103000650	KIT 93PM 30-50KW EMC-C2	Inside the UPS frame. No notable effect on the UPS dimensions			
P-103000847	Parallel kit to connect two parallel 93PM frames	Inside the UPS frame. No notable effect on the UPS dimensions			

(a) Adds 200mm to the total depth of the UPS

(b) Adds 100mm to the total width of the UPS

(c) Adds 206mm to the total width of the UPS. Original connection area is replaced with SIAC MBS.

(d) The total installed weight of UPS cabinet with SIAC option is 600kg

Eaton 93 STS

Eaton 93 STS family provides Static Transfer Switches for seamless and reliable automatic transfer from one power source to another. 93 STS power range goes from 100A up to 1250A, and it includes both 3- and 4- pole versions.

Static Transfer Switch Seamless power transfer

- 3-phase Static Transfer Switch, for automatic transfer of critical AC loads to and from one power source to another, without interruption.
- Rated from 100A to 1250A.
- Available in 3- and 4-pole versions.

Reliable performance

- Continuous monitoring of sources ensures automatic and instantaneous power transfer, without cross-connecting the sources.
- Retransfer is also automatic, and there is the capability for manual transfer if required.
- All the system control boards feature redundant internal power distribution.
- A dual manual bypass is built in, to enable safe maintenance with no disruption of the power supply.
- A global installed base reflects the widespread acceptance and popularity of the Eaton 93 STS.

Connectivity and easy management

- The 93 STS has RS232 and RS485 interfaces, with Modbus protocol. It also features output relay contacts.
- There is a built-in HMI and system mimic panel. The LCD screen and block diagram of the STS – with integrated LEDs – allows a quick check of the switch's operating status.
- Metering, alarms and event logs are also provided.
- The 93 STS range is supplied in a free-standing cabinet.



Eaton 93 STS family

Part number	Description	Width (mm)	Height (mm)	Depth (mm)	Weight (kg)
P-105000040-001	93 STS 100A, 4-pole	820	1475	835	265
P-105000040-002	93 STS 250A, 4-pole	820	1475	835	290
P-105000040-003	93 STS 400A, 4-pole	820	1475	835	305
P-105000040-007	93 STS 630A, 4-pole	1220	1900	860	615
P-105000040-004	93 STS 800A, 4-pole	1220	1900	860	660
P-105000040-005	93 STS 1000A, 4-pole	1220	1900	860	710
P-105000040-006	93 STS 1250A, 4-pole	2000	2100	1000	800

Power Xpert 9395/9395P specific options and accessories

For the Power Xpert 9395/9395P product family there is a very wide offering of options and modifications available. Outside the standard offering the 9395/9395P units can be widely modified based on the customer requirements. Please contact local Eaton sales for support with the 9395/9395P products.

UPM Status LEDs

Power module status lights allow the user to detect the system status with one look. The power module lights change colour depending upon their status. This optional feature makes the visual detection of the UPS system status easier, increasing operational safety and reducing the time required for trouble shooting.

HMI Display

As a default there is a 7" display in the Power Xpert 9395P units up to 600kVA. In the bigger 900kVA and 1200kVA units 10" display is the default. Optionally this bigger 10" display can be installed into smaller units also.

Project specific options

- Seismic kits
- Special colors
- Higher IP ratings
- Alternative layout design (L- and U- shapes)
- Separate rectifier feeds
- No neutral kits
- Factory tests



Power Xpert 9395P 1200kVA unit with 10" display and optional LED status lights

Part number	Description	Info
HPO-1041445	9395-275/9395P-300 UPM STATUS LIGHTS	UPM Status LED kit for 1 UPM
HPO-1041414	9395-550/9395P-600 UPM STATUS LIGHTS	UPM Status LED kit for 2 UPMs
HPO-1041884	9395-825/9395P-900 UPM STATUS LIGHTS	UPM Status LED kit for 3 UPMs
P-103001317	9395-1100/9395P-1200 UPM STATUS LIGHTS	UPM Status LED kit for 4 UPMs
P-103000838	KIT 9395 275/550kVA HMI 10"	10" Display for field installation
P-103000955	SUBAS 9395 275/550kVA FACTORY INSTALLED HMI	10" Display for factory installation
1029274	KIT 3P550 SINGLE INPUT FEED	Single feed kit for 275-600kVA, Tin coated bus bar
1028997	KIT 3P825 SINGLE INPUT FEED AL	Single feed kit for 825-1200kVA, Al
P-103000824	KIT 3P1100 SINGLE INPUT FEED CU	Single feed kit for 1100-1200kVA, Cu

