

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 Kit family includes wide range of breakers to used with external UPS battery solutions like racks and DC switchgears.

Features

- Kits include a breaker, a shunt trip coil for remote tripping and AUX contact for status information. Some larger models also includes the extension handle and additional terminals for bigger cables.
- 24V Shunt trip coil is for the 93PS and 93PM UPS families, 48V for 9395/9395P products.
- See separate breaker datasheets for more detailed info.

[Contact local Eaton sales for support with selecting breakers.](#)



Eaton Circuit-breaker, 3 poles, NZMN2 frame



Eaton Circuit-breaker, 3 poles, NZMN3 frame

Part number	Description	KIT details
String breakers for single battery strings (Breakers can also be used as main DC breakers for battery systems)		
P-122000254	KIT EXT BATT MCCB 80A 24V ST	MCCB 80A 3P 750VDC 15kA NZMH2 + Shunt Trip 24V + AUX (Eaton Moeller)
P-122000255	KIT EXT BATT MCCB 160A 24V ST	MCCB 160A 3P 750VDC 30kA NZMN2 + Shunt Trip 24V + AUX (Eaton Moeller)
P-122000256	KIT EXT BATT MCCB 200A 24V ST	MCCB 200A 3P 750VDC 30kA NZMN2 + Shunt Trip 24V + AUX (Eaton Moeller)
P-122000241	KIT EXT BATT MCCB 400A 24V ST	MCCB 400A 3P 750VDC 30kA NZMN3 + Shunt Trip 24V + AUX (Eaton Moeller)
P-122000242	KIT EXT BATT MCCB 400A 48V ST	MCCB 400A 3P 750VDC 30kA NZMN3 + Shunt Trip 48V + AUX (Eaton Moeller)
Main DC breakers for battery systems		
P-122000184	KIT EXT BATT MCCB 500A 24V ST	MCCB 500A 3P 750VDC 30kA NZMN3 IEC + Shunt Trip 24V + AUX (Eaton Moeller)
P-122000180	KIT EXT BATT MCCB 700A 24V ST Terminals	MCCB 700A 3P 600VDC 20kA IEC + Shunt Trip 24V + AUX + Ext. Handle + Additional terminals 95-200mm ² (Eaton Cutler-Hammer)
P-122000257	KIT EXT BATT MCCB 700A 48V ST Terminals	MCCB 700A 3P 600VDC 20kA IEC + Shunt Trip 48V + AUX + Ext. Handle + Additional terminals 95-200mm ² (Eaton Cutler-Hammer)
P-122000258	KIT EXT BATT MCCB 800A 48V ST Terminals	MCCB 800A 3P 600VDC 20kA IEC + Shunt Trip 48V + AUX + Ext. Handle + Additional terminals 95-200mm ² (Eaton Cutler-Hammer)
P-122000259	KIT EXT BATT MCCB 1250A 48V ST Terminals	MCCB 1250A 3P 600VDC 20kA IEC + Shunt Trip 48V + AUX + Ext. Handle + Additional terminals for M12 bolt (Terasaki)
P-122000195	KIT EXT BATT MCCB 1600A 48V ST Terminals	MCCB 1600A 3P 600VDC 20kA IEC + Shunt Trip 48V + AUX + Ext. Handle + Additional terminals for M12 bolt (Terasaki)

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

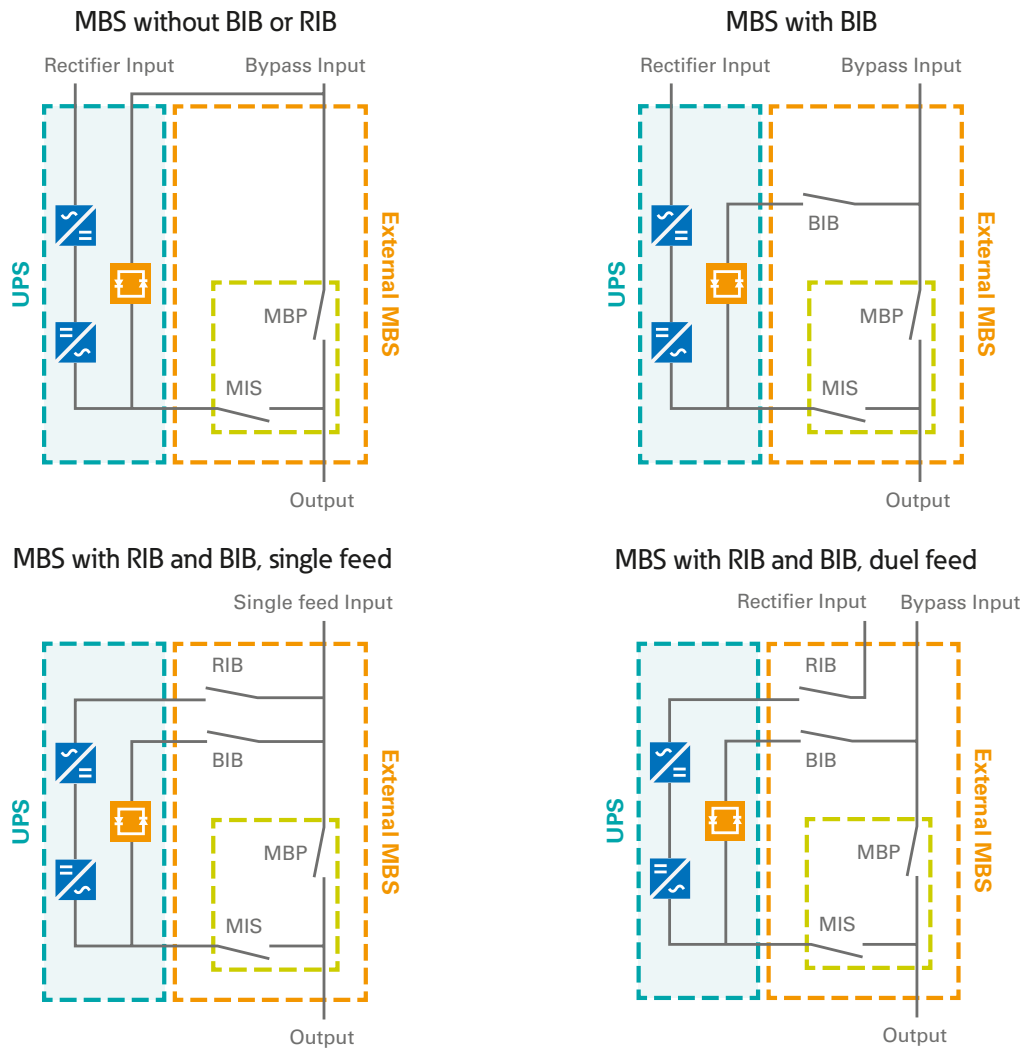


External MBS 100kW and 150kW



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 minimize the site installation time. All the Eaton battery cabinets are designed by the UPS standard IEC 62040.

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, 93PM, 9395P and 9PHD UPSes.
- Daisy-chain cabinets for extended runtime
- Cabinet wheels for easy off-loading and positioning
- External battery cabinet color is HBT100730
- Breaker sizing in battery cabinets:
 - 63A - for 8-20KVA UPS
 - 160A - for 8-40KVA UPS
 - 200A - for 30-100KVA UPS
 - 400A - for 80-200KVA UPS

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



External Battery Cabinet frame A. Designed for 93PS/93E units up to 20kVA



External Battery Cabinet frame C. Designed for 93PM/93E units up to 100kVA

Battery cabinet family	Description	Width (mm)	Height (mm)	Depth (mm)	Weight (kg)	
EBC-H 	Battery cabinet for 8-10kW power range.	335	950	700	58	empty
	Cabinet equipped with 32A breaker.				221	with max batteries
	Cabinet is shipped with batteries inside.					
	Max battery quantity 2x32 pcs					
	Cabinet is designed to be used with 93PS/93E UPSes up to 10kVA					
EBC-A 	Battery cabinet for 8-20kVA power range.	335	1300	700	106	empty
	Cabinet equipped with 63A breaker.				349	with max batteries
	Cabinet is shipped with batteries inside.					
	Max battery quantity 3x32 pcs					
	Cabinet is designed to be used with 93PS/93E UPSes up to 20kVA					
EBC-B 	Battery cabinet for 8-40kVA power range.	761	1750	700	179	empty
	Cabinet equipped with 63A or 160A breaker.				742	with max batteries
	Cabinet is shipped with batteries inside.					
	Max battery quantity 32 pcs					
	Cabinet is designed to be used with 93PS/93E UPSes up to 40kVA					
EBC-C 	Battery cabinet for up to 30-100kVA power range. a)	575	1876	914	167	empty
	Cabinet equipped with 200A breaker.				1061	with max batteries. Varies based on used battery type
	Cabinet is shipped with batteries inside.					
	Max battery quantity 40 pcs					
	Cabinet is designed to be used with 93PM/93E UPSes up to 100kVA					
EBC-D 	Battery cabinet for up to 30-200kVA power range. a)	1086	1888	914	312	empty
	Cabinet equipped with 400A breaker.					
	Cabinet is shipped empty.					
	Max battery quantity 40 pcs					
	Cabinet is designed to be used with 93PM/9395P/ 93E UPSes up to 200kVA					
EBC-E 	Battery cabinet for up to 30-200kVA power range. a)	1125	1879	808	412	empty
	Cabinet equipped with 400A breaker.				2116	with max batteries. Varies based on used battery type
	Cabinet is shipped with batteries inside.					
	Max battery quantity 40 pcs					
	Cabinet is designed to be used with 93PM/9395P/ 93E UPSes up to 200kVA					
EBC-F 	Industrial / Marine cabinet for up to 30-200kVA power range.	625	1978	937	226	empty
	Cabinet equipped with 200A breaker.				970	with max batteries. Varies based on used battery type and cabinet options
	Cabinet is shipped with batteries inside.					
	Max battery quantity 40 pcs					
	Cabinet is designed to be used with 9PHD UPS products up to 200KVA					
EBC-G 	Battery cabinet for 30-200kVA power range.	1118	1978	1091	750	empty
	Cabinet equipped with 400A breaker.				2560	with max batteries. Varies based on used battery type and cabinet options
	Cabinet is shipped with batteries inside. b)					
	Max battery quantity 40 pcs					
	Cabinet is designed to be used with 9PHD UPS products up to 200KVA					

a) Multiple cabinets can be used for higher powers
b) Lifting lugs cannot be used if batteries inside

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 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 and 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.

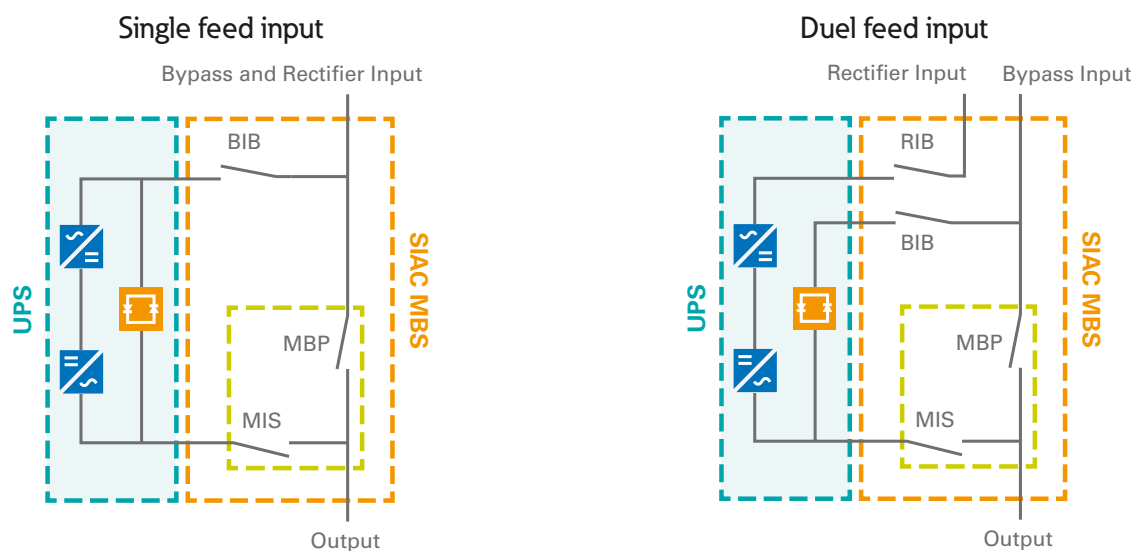


Eaton 93PM 30-150kW unit with Top cable access kit



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.



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

Eaton UPS communication options

Network card MS (Network-MS)

Provides Web interface and SNMP communication over Ethernet



- Installation in Eaton Mini-Slot Enhancement Bay (also BD Slot)
- 10/100 Mbit Ethernet
- IP v4 & v6, SNMP v1 & v3, http & https
- Alarms through Email (SMTP)
- Automatic Time Synchronisation (NTP)
- Configuration via RS232, DHCP, Telnet, CLI
- Supports optional EMP (Temperature, Humidity, 2 x Digital inputs)
- Can be monitored with Eaton Intelligent Power Software
- Package contents: Card; Configuration Cable; Manual

Network and MODBUS card MS (MODBUS-MS)

Provides Web interface and SNMP communication over Ethernet and ModBus through RS 485



- Installation in Eaton Mini-Slot Enhancement Bay (also BD Slot)
- 10/100 Mbit Ethernet, MODBUS/JBUS (RTU, RS232 & RS485)
- IP v4 & v6, SNMP v1 & v3, http & https
- Alarms through Email (SMTP)
- Automatic Time Synchronisation (NTP)
- Configuration via RS232, DHCP, Telnet, CLI
- Supports optional EMP (Temperature, Humidity, 2 x Digital inputs)
- Can be monitored with Eaton Intelligent Power Software
- Package contents: Card; Configuration Cable; Manual
- Limited support for 93E

ConnectUPS-X Web/SNMP card (116750221-001)

Provides Web interface and SNMP communication over Ethernet



- Installation in Eaton X-Slot Enhancement Bay
- 10/100 Mbit Ethernet (4-Port-Hub)
- IP v4, SNMP v1, http & https
- Alarms through Email (SMTP)
- Automatic Time Synchronisation (NTP)
- Configuration through RS232, DHCP, Telnet
- Supports optional EMP (Temperature, Humidity, 2 x Digital inputs)
- Can be monitored with Eaton Intelligent Power Software
- Package contents: Card; Configuration Cable; Manual

PowerXpert UPS X-Slot card (PXGX UPS) (103007974-5591)

Provides Web interface, ModBusTCP, BACnet IP and SNMP communication over Ethernet



- Installation in Eaton X-Slot Enhancement Bay
- 10/100 Mbit Ethernet (2 port hub for daisy chaining)
- IP v4 & v6, SNMP v1 & v3, http & https
- MODBUS TCP
- BACnet IP (from fw 2.3.6)
- Alarms through Email (SMTP)
- Automatic Time Synchronisation (NTP)
- Configuration through USB, DHCP
- Supports optional EMP (Temperature, Humidity, 2 x Digital inputs)
- Can be monitored with Eaton Intelligent Power Software
- Package contents: Card; Configuration Cable; Manual

PowerXpert UPS MiniSlot card (PXGMSUPS)

Provides Web interface, ModBusTCP, BACnetIP and SNMP communication over Ethernet



- Installation in Eaton 93PM MiniSlot Enhancement Bay
- 10/100 Mbit Ethernet D85
- IP v4 & v6, SNMP v1 & v3, http & https
- MODBUS TCP, BACnet IP, MODBUS 2-wire RS-485
- Alarms through Email (SMTP)
- Automatic Time Synchronisation (NTP)
- Configuration through USB, DHCP
- Supports optional EMP (Temperature, Humidity, 2 x Digital inputs)
- Can be monitored with Eaton Intelligent Power Software
- Package contents: Card; Configuration Cable; Manual
- **93PM and 93PS support only!**

ConnectUPS-E Web/SNMP adapter (116750223-001)

Provides Web interface and SNMP communication over Ethernet



- External
- 10/100 Mbit Ethernet
- IP v4, SNMP v1, http & https
- Alarms through Email (SMTP)
- Automatic Time Synchronisation (NTP)
- -Configuration via RS232, DHCP, Telnet
- Supports optional EMP (Temperature, Humidity, 2 x Digital inputs)
- Can be monitored with Eaton Intelligent Power Software
- Package contents: Adapter; Power supply; Configuration Cable; Communication cable; Manual

Environmental Monitoring Probe [EMP] (EMP001)

Accessory to Web cards and select ePDUs, adds monitoring of temperature, humidity and two digital inputs.



- External device
- Connects to Eaton Web cards and select ePDUs through RJ45 Cat 5 patch cable (1,5 m provided, 20 m max)
- Alarm limits for temperature and humidity can be set in Web cards
- Two potential free digital inputs
- Used as the temperature probe in temperature compensated charging
- Facilitates graceful shutdown of servers in case of unacceptable environmental conditions or contact closure
- Can be monitored with Eaton Intelligent Power Software through Web cards or ePDUs
- Package contents: EMP; RJ45 Cable(1,5m); Mounting accessories; Manual



Relay card MS (Relay-MS)

Provides communication through voltage free relays or RS-232.

- Installation in Eaton Mini-Slot Enhancement Bay
- 1 x 9-pin Dsub connector
- 1 x RS232 or 5 x Relay output / 1 x Input
- Package contents: Card; Manual
- Works in 3 phase Minislot units as well, but recommendation is to use the INDRELAY-MS



Industrial relay card MS (INDRELAY-MS)

Provides communication through voltage free relays.

- Installation in Eaton Mini-Slot Enhancement Bay
- Terminal connectors, 250 VAC/5A rating
- 5 x Relay output / 1 x Input
- Package contents: Card; Manual
- **Compatible with all MiniSlot UPS!**



X-Slot Relay Card (1018460)

Provides communication through voltage free contacts.

- Installation in Eaton X-Slot Enhancement Bay
- 1 x 15-pin Dsub Connector/ Terminal blocks
- 4 Switching Relays (both NO and NC) / 1 x Digital Input
- 12VDC unregulated voltage supply
- Package contents: Card; Manual



X-Slot MODBUS Card (103005425-5591)

Provides MODBUS RTU communication.

- Installation in Eaton X-Slot Enhancement Bay
- MODBUS/JBUS (RTU, RS232 & RS485)
- 3 x 9-pin Dsub connectors; 5 wire terminal block
- Configuration through RS232 and DIP switches
- Package contents: Card; Configuration Cable; Manual

Eaton UPS Communications options

Compatibility with UPS models

	Product Description	Reference	Blade UPS	Eaton 9155	Eaton 93PS	Eaton 93E	Eaton 93PM	Eaton 9PHD	Power Xpert 9395P
	Network card MS	Network-MS P/N: 744-00255-00P			×	×	×	×	
	Network and MODBUS card MS	MODBUS-MS P/N: 744-98065-00P			×	×	×	×	
	ConnectUPS-X Web/SNMP card	P/N: 116750221-001	×	×					×
	PowerXpert UPS X-Slot card (PXGX UPS)	P/N: 103007974-5591	×	×					×
	PowerXpert UPS MiniSlot card (PXGMS UPS)	PXGMSUPS P/N: P-116000035			×		×	×	
	ConnectUPS-E Web/SNMP card	P/N: 116750223-001	(×)	(×)					(×)
	Environmental Monitoring Probe (EMP) Environment Sensor for web cards [one of the cards above required]	EMP001 P/N: 744-A1576	×	×	×	×	×	×	×
	Relay card - MS	Relay-MS P/N: 744-98067-00P			×	×	×		
	Industrial relay card - MS (rev 3)	INDRELAY-MS P/N: P-116000059			×	×	×	×	
	X-Slot Relay Card	P/N: 1018460	×	×					×
	X-Slot ModBus RTU Card	P/N: 103005425-5591	×	×					×

(×) = External serial cable required

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 color 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



9395P 600kVA unit with 10" display

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

