Eaton 9395 SBM

System Bypass Module, 2000 – 5000 A



The 9395 SBM cabinet line ups and matches perfectly with the 9395 UPS cabinet.

The 9395 SBM user benefits:

- · Offers exceptional UPS modularity
- Available for Powerware Hot Sync® capacity/redundancy parallel 9395 systems
- Supports energy-saving technologies including Energy Saver System (ESS) and Variable Module Management System (VMMS)
- Large LCD display makes system level controls easily

Four decades of experience in paralleling large UPSs are incorporated in the newest Eaton® model of system bypass module: the Eaton 9395 SBM.

For use with parallel Eaton 9395 225–1100 kVA systems, the 9395 SBM is the key component that enables Eaton to deliver custom, multi-module UPS configurations that are tailored to your application and unique specifications. The 9395 SBM provides centralised bypass capability for UPS systems from 2000 A up to 5000 A (1,4–3,5 MVA). The 9395 SBM is also capable of paralleling UPS units with unequal kVA ratings – for example one 550 kVA unit with a 275 kVA unit, or three 825 kVA units with one 550 kVA unit.

Highest reliability and significant savings

The 9395 SBM employs a centralised static bypass switch that is used to route the power past the UPS units in the event of a temporary overload or UPS fault situation.

Instead of continuously feeding the entire system power through a common output cubicle, the 9395 SBM is connected in parallel with UPS units and carries the load current only when the system is in bypass mode.

The Hot Sync load sharing technology plays a key role in guaranteeing continuity and high reliability for the system, as it allows paralleling of the UPS units without the need for communication between them.

The Hot Sync technology, when combined with a separate output switch, allows the 9395 SBM to be detached from the UPS system and safely repaired while UPS modules feed the load.

The 9395 SBM supports Eaton's energy saving technologies: the Energy Saver System (ESS), which enables UPS system efficiency to reach 99 percent, and the Variable Module Management System (VMMS), which provides maximal efficiency for a parallel system at lighter loads without compromising power quality.

Ease of use with compact size

Compact and light, the 9395 SBM cabinet line ups and matches perfectly with the 9395 UPS cabinet. Customers benefit from its 10-inch, colour LCD touch screen that allows monitoring of the entire UPS system as a whole and the statuses of individual UPSs. The display is equipped with intuitive controls for quick access to key information, including system status measurements, remaining backup time, history logs, etc.

The 9395 SBM provides terminal connections for system-level building alarm inputs and relay outputs as well as two X-slots for Eaton's network connectivity cards.

The unit can be customised in accordance with exact customers' requirements. Specially coloured cabinets are even available to match the colour coding of customer's electrical system.

The SBM is usually a part of larger Eaton power quality projects. To ensure that the product meets your requirements please involve Eaton personnel in product specification and design.

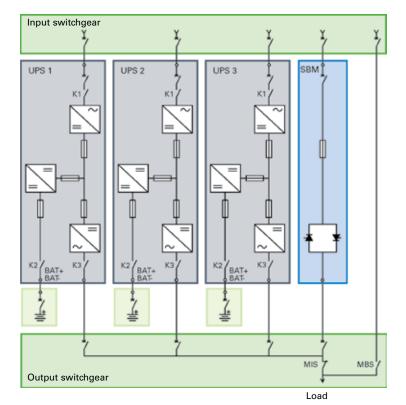


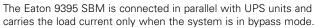
Eaton 9395 SBM

TECHNICAL SPECIFICATIONS

TECHNICAL S	PECIFI	CATIC)N2			
9395 SBM Ratings						
Model	2000	2500	3200	4000	5000	
Rating [A]	2000	2500	3200	4000	5000	
General						
Static switch type			Continuous duty			
Parallel capability (nr. of UPS)			Up to 7 units (225-1100 kVA)			
Efficiency			>99%			
Audible noise			<75 dB			
Cooling air flow		up to 6000 m3/h (5000A)				
Backfeed protection		Included as standard				
Distribution compa		TNC, TNS				
Power poles switched			3			
Neutral rating			100%			
¹⁾ From 1m per ISO 7779	standard					
Environmental						
Operating temperature			0 °C to 40 °C			
Storage temperature			-20 °C to 55 °C			
Transmit temperature			-20 °C to 60 °C			
Humidity			5% – 95%, non-condensing			
Altitude, max.			1000m	2)		
²⁾ Operating at maximu	m temperatu	re, derate	according	to IEC6204	0-3	
Input						
Voltage			380/400)/415V		
Voltage range			-15% to +10%			
Frequency range			45Hz to 65Hz			
Output						
Voltage			380/400)/415V		
Power factor range			0,8 lead	0,8 leading to 0,7 lagging 3)		
Crest factor			3:1 ³⁾			
3) Limited by UPS speci	fication					
Interrupt & overloa	ad ratings					
Interrupt ratings			up to 100 kAICC, selectable			
Load fault clearing capacity			750-1000% for 100ms			
(depends on prote	ctive fuses	s)	850-110	00% for 2	0 ms	

Dimensions (W x	D x H) and weights					
SBM 2000	2200 x 1040 x 1880 mm 1400 kg					
SBM 2500	2200 x 1040 x 1880 mm 1400 kg					
SBM 3200	2200 x 1040 x 1880 mm 1550 kg					
SBM 4000	2500 x 1040 x 1880 mm 2250 kg					
SBM 5000	2500 x 1040 x 1880 mm 2350 kg					
Enclosure						
Colour	RAL-9005 4)					
Degree of protect	ion IP20					
4) Available in other co	lours					
Compliance with	standards					
Safety	IEC62040-1, EN60950-1					
EMC	IEC62040-2					
Performance	IEC62040-3, on applicable parts					
User interface						
Control panel	10.3 inch colour touch screen					
Relay contacts	up to 13, programmable					
Building alarms	up to 6, programmable					
Operation modes						
Efficiency	>99% on ESS					
Parallel capability	(nr. of UPS) Up to 7 units (225-1100 kVA)					
Optional accessor	ries					
Remote display pa	nel on request					
Module output bre	eakers according to request					
Maintenance swit						
Dimensions (W x	D x H) and weights of IOM Modules					
IOM 275 kVA	1350 x 880 x 1880 mm 800 kg					
IOM 550 kVA	1890 x 880 x 1880 mm 1400 kg					
IOM 825 kVA	3710 x 880 x 1880 mm 2650 kg					
IOM 1100 kVA	4450 x 880 x 1880 mm 3250 kg					
Communications						
X-Slot connectivit	y (Web/SNMP, ModBus/Jbus, Relay, ViewUPS-X remote display					







The 9395 SBM features a colour LCD touch screen that allows monitoring of the entire UPS system as a whole and the statuses of individual UPSs.