## SIEMENS

## Data sheet

## 6EP4293-8HB00-0XY0



SITOP BUF8600/4S/40A

SITOP BUF8600 4s buffer module for PSU8600 buffer capacity 4 s/40 A with dual-layer capacitators maintenance-free \*Ex approval no longer available\*

type of energy storage design of the mains power cut bridging-connection buffent gime for rated value of the output current in the event of power failure         Double-layer capacitors Backup time with 40 A load current: 4 s           output current • rated value         40 A           display version • in buffent gimes         40 A           display version • in buffent gimes         3-color LED for operating state module LED green for "buffer standby exist" • tor normal operation • in buffent gmode           Interface         Ethernet/PROFINET via power supply unit PSU8600           gafaby operating resource protection class protection class IP         Yes (CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1)           • ot capproval • cCSAus, Class 1, Division 2 • ATEX Vpe of certificate of Suitability • ECA capproval • CTick • Subputiding approval * ATEX Vpe of certificate of Suitability • EAC approval • CTick • Subputiding approval * ATEX         Yes • CTick * No * Subputiding approval * ATEX           • CTick • Subputiding approval * Ateria Bureau of Shipping Europe Ltd. (ABS) • DNV GL         Yes * CASUB * CS22 Class B * For interference * for interference           • ENC * Standard • for emitted interference * for interference immunity         EN 55022 Class B * EN 61000-6-2	Mains buffering	
buffering time for rated value of the output current in the event of power failure         4 000 ms           Output         output current         4 0 A           stand value         40 A           Signaling         3-color LED for operating state module           is for normal operation         LED green for "buffer standby exist"           is buffering mode         LED yellow for "buffer de mode"           Interface         Ethernet/PROFINET via power supply unit PSU8600           Safety         operating resource protection class           operating resource protection class         Class III           protection class IP         IP20           Approvals         (CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 10950-1)           • cCSAus, Class 1, Division 2         No           • ATEX         No           Vipe of certification CB-certificate         Yes           • CTick         No           • CTick         No           • ATEX         No           • Crick         No           • Crick         No           • Crick         No           • Crick         No           • Dinbuilding approval         Yes     <	type of energy storage	Double-layer capacitors
event of power failure         Output         output current         • rated value       40 A         Signaling         display version       3-color LED for operating state module         • for normal operation       LED green for "buffer standby exist"         • in buffering mode       LED yellow for "buffered mode"         Interface       Ethernet/PROFINET via power supply unit PSU8600         Satety       Operating resource protection class         operating resource protection class       Class III         protection class IP       IP20         Approvals       Certificate of suitability         • CE marking       Yes         • UL approval       Yes         • CSAus, Class 1, Division 2       No         • ATEX       No         Vpre of certification CB-certificate       Yes         certificate of suitability       Yes         • CTack       No         • ATEX       No         • Attext       No         • Capproval       Yes         • CTick       No         • Attext       No         • Crick       No         • Crick       No         • Attext       No <td< td=""><td>design of the mains power cut bridging-connection</td><td>Backup time with 40 A load current: 4 s</td></td<>	design of the mains power cut bridging-connection	Backup time with 40 A load current: 4 s
Output         output current           • rated value         40 A           Signaling		4 000 ms
output current     40 A       Signaling     3-color LED for operating state module       display version     3-color LED for operating state module       • for normal operation     LED green for "buffer standby exist"       • in buffering mode     LED yellow for "buffered mode"       Interface     Ethernet/PROFINET via power supply unit PSU8600       Safety     Class III       operating resource protection class     Class III       protection class IP     IP20       Approvals     Cullus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)       • CSAus, Class 1, Division 2     No       • ATEX     No       Vpor cartification CB-certificate     Yes       • EAC approval     Yes       • EAC approval     Yes       • EAC approval     Yes       • Stipbuilding approval     Yes       • Stipbuilding approval     Yes       • Stipbuilding approval     Yes       • Div GL     Yes       • Div GL     Yes       • Div GL     Yes       • Division association     Hes       • American Bureau of Shipping Europe Ltd. (ABS)     Yes       • Div KGL     Yes       • Div Kel     Yes       • Div Medue Autor Autor Autor Autor Autor Autor     Yes       • Div Inte		
• rated value     40 A       Signaling		
Signaling         display version       3-color LED for operating state module <ul> <li>For normal operation</li> <li>LED green for "buffer standby exist"</li> <li>LED yellow for "buffer dmode"</li> </ul> Interface       Ethernet/PROFINET via power supply unit PSU8600         Safety          operating resource protection class       Class III         protection class IP       IP20         Approvals          certificate of suitability       Yes <ul> <li>Cass 11, Division 2</li> <li>Approval</li> <li>Yes</li> <li>Cass 11, Division 2</li> <li>No</li> <li>ATEX</li> <li>No</li> <li>ATEX</li> <li>No</li> <li>Yes</li> <li>Safetor</li> <li>Subuliding approval</li> <li>Yes</li> <li>Shipbuilding approval</li> <li>Yes</li> <li>Shipbuilding approval</li> <li>ABS, DNV GL</li> <li>Yes</li> <li>Shipbuilding approval</li> <li>ABS, DNV GL</li> <li>Yes</li> </ul> EMC		
display version       3-color LED for operating state module         • for normal operation       LED green for "buffer standby exist"         • in buffering mode       LED yellow for "buffered mode"         Interface       Ethernet/PROFINET via power supply unit PSU8600         Safety       operating resource protection class         optimum       Class III         protection class IP       IP20         Approvals       res         certificate of suitability       Yes         • CE marking       Yes         • UL approval       Yes         • as approval for USA       cultust-listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1)         • cCSAus, Class 1, Division 2       No         • ATEX       No         type of certification CB-certificate       Yes         certificate of suitability       Yes         • EAC approval       Yes         • C.Tick       No         • Shipbuilding approval       Yes         • Shipbuilding approval       Yes         • Shipbuilding approval       Yes         • CTick       No         • American bureau of Shipping Europe Ltd. (ABS)       Yes         • DNV GL       Yes         EMC       EN 61000-6-		40 A
• for normal operation       LED green for "buffer standby exist"         • in buffering mode       LED yellow for "buffered mode"         Interface       Ethernet/PROFINET via power supply unit PSU8600         Safety       operating resource protection class         operating resource protection class       Class III         protection class IP       IP20         Approvals       rest         certificate of suitability       Yes         • CE marking       Yes         • UL approval       Yes         • UL approval for USA       cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)         • cCSAus, Class 1, Division 2       No         • ATEX       No         type of certification CB-certificate       Yes         certificate of suitability       Yes         • EAC approval       Yes         • C-Tick       No         • Shipbuilding approval       Yes         • Shipbuilding approval       Yes         • DNV GL       Yes         • DNV GL       Yes         • for mitted interference       EN 55022 Class B         • for interference immunity       EN 61000-6-2         environmental conditions       EN 61000-6-2	Signaling	
• in buffering mode       LED yellow for "buffered mode"         Interface       Ethernet/PROFINET via power supply unit PSU8600         Safety       operating resource protection class         operating resource protection class       Class III         protection class IP       IP20         Approvals       certificate of suitability         • CE marking       Yes         • UL approval       Yes         • as approval for USA       cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)         • cCSAus, Class 1, Division 2       No         • ATEX       No         type of certification CB-certificate       Yes         certificate of suitability       Yes         • CTick       No         • CTick       No         • Aspipuliding approval       Yes         • CTick       No         • American Bureau of Shipping Europe Ltd. (ABS)       Yes         • DNV GL       Yes         • DNV GL       Yes         • for emitted interference       EN 55022 Class B         • for interference immunity       EN 61000-6-2         onvitronmental conditions       EN 61000-6-2	display version	
Interface         Ethernet/PROFINET via power supply unit PSU8600           Safety         operating resource protection class         Class III           operating resource protection class         Class III         protection class IP           Approvals         IP20           certificate of suitability         Yes           • CE marking         Yes           • UL approval         Yes           • ult approval for USA         CULus-Listed (UL 508, CSA C22, 2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)           • cCSAus, Class 1, Division 2         No           • ATEX         No           type of certification CB-certificate         Yes           c-tTick         No           • Shipbuilding approval         Yes           • ATEX         No           • Shipbuilding approval         Yes           • C-Tick         No           • American Bureau of Shipping Europe Ltd. (ABS)         Yes           • DNV GL         Yes           • DNV GL         Yes           • for emitted interference         EN 55022 Class B           • for interference immunity         EN 61000-6-2	<ul> <li>for normal operation</li> </ul>	
design of the interface       Ethernet/PROFINET via power supply unit PSU8600         Safety       Operating resource protection class       Class III         protection class IP       IP20         Approvals       certificate of suitability       IP20         certificate of suitability       Yes         • CE marking       Yes         • UL approval       Yes         • La approval for USA       cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)         • cCSAus, Class 1, Division 2       No         • cCSAus, Class 1, Division 2       No         • ATEX       No         type of certification CB-certificate       Yes         certificate of suitability       Yes         • EAC approval       Yes         • C-Tick       No         • shipbuilding approval       ABS, DNV GL         Marine classification association       American Bureau of Shipping Europe Ltd. (ABS)         • PNV GL       Yes         EMC       Standard         • for emitted interference       EN 55022 Class B         • for initerference immunity       EN 61000-6-2         environmental conditions       Environmental conditions	in buffering mode	LED yellow for "buffered mode"
Safety       Class III         operating resource protection class       IP20         Approvals       IP20         certificate of suitability       Yes         • CE marking       Yes         • UL approval       Yes         • as approval for USA       cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)         • cCSAus, Class 1, Division 2       No         • ATEX       No         type of certification CB-certificate       Yes         certificate of suitability       Yes         • EAC approval       Yes         • C-Tick       No         • shipbuilding approval       Yes         shipbuilding approval       Yes         • DNV GL       Yes         • DNV GL       Yes         • for emitted interference       EN 55022 Class B         • for interference immunity       EN 61000-6-2         environmental conditions       EN 61000-6-2	Interface	
operating resource protection class         Class III           protection class IP         IP20           Approvals         IP20           certificate of suitability         Yes           • CE marking         Yes           • UL approval         Yes           • as approval for USA         CULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)           • cCSAus, Class 1, Division 2         No           • ATEX         No           type of certification CB-certificate         Yes           certificate of suitability         Yes           • EAC approval         Yes           • C-Tick         No           • shipbuilding approval         Yes           • Shipbuilding approval         Yes           • DNV GL         Yes           • DNV GL         Yes           • DNV GL         Yes           • for emitted interference         EN 55022 Class B           • for interference immunity         EN 61000-6-2	design of the interface	Ethernet/PROFINET via power supply unit PSU8600
protection class IP       IP20         Approvals       Certificate of suitability       CE marking       Yes         • CE marking       Yes       Yes       Yes         • UL approval       Yes       CULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)         • cCSAus, Class 1, Division 2       No       No         • cCSAus, Class 1, Division 2       No         • ATEX       No         type of certification CB-certificate       Yes         certificate of suitability       Ves         • EAC approval       Yes         • C-Tick       No         • shipbuilding approval       Yes         • shipbuilding approval       Yes         • bipbuilding approval       Yes         • bonv GL       Yes         • DNV GL       Yes         • DNV GL       Yes         • DNV GL       Yes         • for emitted interference       EN 55022 Class B         • for interference immunity       EN 61000-6-2         environmental conditions       Environmental conditions	Safety	
Approvals       certificate of suitability       • CE marking       • UL approval       • UL approval       • as approval for USA       • cCSAus, Class 1, Division 2       • a cCSAus, Class 1, Division 2       • a cCSAus, Class 1, Division 2       • a cTEX       • a cTEX       • a contraction CB-certificate       • certificate of suitability       • EAC approval       • CTick       • contraction association       • American Bureau of Shipping Europe Ltd. (ABS)       • box       • for emitted interference       • for emitted interference       • for interference immunity	operating resource protection class	Class III
certificate of suitability       Yes         • CE marking       Yes         • UL approval       Yes         • as approval for USA       cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1)         • cCSAus, Class 1, Division 2       No         • ATEX       No         type of certification CB-certificate       Yes         certificate of suitability       Yes         • EAC approval       Yes         • C-Tick       No         • shipbuilding approval       Yes         shipbuilding approval       Yes         • American Bureau of Shipping Europe Ltd. (ABS)       Yes         • DNV GL       Yes         EMC       standard         • for emitted interference       EN 55022 Class B         • for interference immunity       EN 61000-6-2         environmental conditions       Environmental conditions	protection class IP	IP20
• CE markingYes• UL approvalYes• as approval for USAcULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)• cCSAus, Class 1, Division 2No• cCSAus, Class 1, Division 2No• ATEXNotype of certification CB-certificateYescertificate of suitabilityYes• EAC approvalYes• C-TickNo• shipbuilding approvalYes• shipbuilding approvalYes• shipbuilding approvalYes• Armerican Bureau of Shipping Europe Ltd. (ABS)Yes• DNV GLYes <b>EMC</b> Standard• for emitted interferenceEN 55022 Class B• for interference immunityEN 61000-6-2environmental conditionsEN 61000-6-2	Approvals	
• UL approvalYes• as approval for USAcULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)• cCSAus, Class 1, Division 2No• ATEXNo• ATEXNotype of certification CB-certificateYescertificate of suitabilityYes• EAC approvalYes• C-TickNo• shipbuilding approvalYes• shipbuilding approvalABS, DNV GLMarine classification associationYes• DNV GLYes <b>EMC</b> standardFor emitted interference• for interference immunityEN 55022 Class B• for interference immunityEN 61000-6-2	certificate of suitability	
<ul> <li>as approval for USA</li> <li>cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)</li> <li>cCSAus, Class 1, Division 2</li> <li>ATEX</li> <li>No</li> <li>Vpe of certification CB-certificate</li> <li>Yes</li> <li>cEAC approval</li> <li>C-Tick</li> <li>Shipbuilding approval</li> <li>ABS, DNV GL</li> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> <li>DNV GL</li> <li>Yes</li> <li>EMC</li> <li>standard</li> <li>for emitted interference</li> <li>for interference immunity</li> <li>EN 55022 Class B</li> <li>for interference immunity</li> <li>EN 61000-6-2</li> </ul>	CE marking	Yes
• cCSAus, Class 1, Division 2       No         • ATEX       No         type of certification CB-certificate       Yes         certificate of suitability       Yes         • C-Tick       No         • shipbuilding approval       Yes         shipbuilding approval       ABS, DNV GL         Marine classification association       Yes         • DNV GL       Yes         EMC       Yes         effort emitted interference       EN 55022 Class B         • for interference immunity       EN 61000-6-2	<ul> <li>UL approval</li> </ul>	Yes
• ATEXNotype of certification CB-certificateYescertificate of suitability• EAC approvalYes• C-TickNo• shipbuilding approvalYes• shipbuilding approvalABS, DNV GLMarine classification associationYes• American Bureau of Shipping Europe Ltd. (ABS)Yes• DNV GLYesEMCStandard• for emitted interferenceEN 55022 Class B• for interference immunityEN 61000-6-2environmental conditions	<ul> <li>as approval for USA</li> </ul>	
type of certification CB-certificateYescertificate of suitabilityYes• EAC approvalYes• C-TickNo• shipbuilding approvalYesshipbuilding approvalABS, DNV GLMarine classification associationYes• American Bureau of Shipping Europe Ltd. (ABS)Yes• DNV GLYestencestandardENC• for emitted interferenceEN 55022 Class B• for interference immunityEN 61000-6-2environmental conditions	<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No
certificate of suitability       Face approval         • EAC approval       Yes         • C-Tick       No         • shipbuilding approval       Yes         shipbuilding approval       ABS, DNV GL         Marine classification association       Yes         • American Bureau of Shipping Europe Ltd. (ABS)       Yes         • DNV GL       Yes         EMC       Standard         • for emitted interference       EN 55022 Class B         • for interference immunity       EN 61000-6-2         environmental conditions       EN 61000-6-2	• ATEX	No
EAC approvalYes• C-TickNo• shipbuilding approvalYesshipbuilding approvalABS, DNV GLMarine classification association• American Bureau of Shipping Europe Ltd. (ABS)Yes• DNV GLYesEMCstandard• for emitted interferenceEN 55022 Class B• for interference immunityEN 61000-6-2environmental conditions	type of certification CB-certificate	Yes
<ul> <li>C-Tick</li> <li>shipbuilding approval</li> <li>shipbuilding approval</li> <li>ABS, DNV GL</li> <li>Marine classification association</li> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> <li>PNV GL</li> <li>Yes</li> </ul> EMC           standard           • for emitted interference           • for interference immunity           • for interference immunity	certificate of suitability	
• shipbuilding approvalYesshipbuilding approvalABS, DNV GLMarine classification association-• American Bureau of Shipping Europe Ltd. (ABS)Yes• DNV GLYes• DNV GLYesEMC-standard-• for emitted interferenceEN 55022 Class B• for interference immunityEN 61000-6-2environmental conditions	<ul> <li>EAC approval</li> </ul>	Yes
shipbuilding approval     ABS, DNV GL       Marine classification association     -       • American Bureau of Shipping Europe Ltd. (ABS)     Yes       • DNV GL     Yes       EMC     -       standard     -       • for emitted interference     EN 55022 Class B       • for interference immunity     EN 61000-6-2	• C-Tick	No
Marine classification association       American Bureau of Shipping Europe Ltd. (ABS)       Yes         • DNV GL       Yes         EMC       Yes         standard       EN 55022 Class B         • for emitted interference       EN 55022 Class B         • for interference immunity       EN 61000-6-2         environmental conditions       EN 61000-6-2	<ul> <li>shipbuilding approval</li> </ul>	Yes
American Bureau of Shipping Europe Ltd. (ABS) Yes DNV GL Yes     Yes     EMC     standard     ofor emitted interference EN 55022 Class B ofor interference immunity EN 61000-6-2     environmental conditions	shipbuilding approval	ABS, DNV GL
EMC         standard         • for emitted interference         EN 55022 Class B         • for interference immunity         EN 61000-6-2         environmental conditions		
standard     EN 55022 Class B       • for emitted interference     EN 61000-6-2       environmental conditions     EN 61000-6-2	• DNV GL	Yes
for emitted interference EN 55022 Class B     for interference immunity EN 61000-6-2 environmental conditions	EMC	
for interference immunity EN 61000-6-2 environmental conditions	standard	
environmental conditions	<ul> <li>for emitted interference</li> </ul>	EN 55022 Class B
	for interference immunity	EN 61000-6-2
ambient temperature	environmental conditions	
	ambient temperature	

• during operation	-25 +60 °C; with natural convection
<ul> <li>during transport</li> </ul>	-40 +70 °C
<ul> <li>during storage</li> </ul>	-40 +70 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
type of electrical connection	Plug-in terminal with screw connectors
• at input	-
at output	-
<ul> <li>for control circuit and status message</li> </ul>	X1, X2 (control contact) and 13,14, 23, 24 (message signals): 1 screw terminal each for 0.2 1.5 $mm^2$
type of connection to system components	Via integrated connector
width of the enclosure	60 mm
height of the enclosure	125 mm
depth of the enclosure	150 mm
required spacing	
• top	50 mm
bottom	50 mm
• left	0 mm
• right	0 mm
net weight	1.25 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x15
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
MTBF at 40 °C	1 374 707 h
reference code according to IEC 81346-2	RB
other information	Specifications at rated input voltage and ambient temperature +25 $^\circ\text{C}$ (unless otherwise specified)

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