## SIEMENS

## Data sheet

## 6EP4347-7RB00-0AX0



## SITOP RED1200/RED.M./DC24/48V/2X20A

SITOP RED1200 redundancy module Input/output: 24/48 V DC/40 A Suitable for decoupling two SITOP power supplies with max. 20 A output current each

kpp of the power supply network         DC voltage           supply voltage         1248 V           input voltage         1058 V           otat DC         1058 V           Output         Controlled DC voltage           voltage curve at output         Controlled DC voltage           output voltage at DC rated value         24 V           formula for output voltage         Vin - exprox. 0.6 V           output voltage at DC rated value         24 V           output voltage at DC rated value         24 V           output voltage at DC rated value         24 V           product function output voltage adjustable         No           output voltage adjustable         No           output voltage of equipment         40 A           product feature         -           • bridging of equipment         97.5 %           power loss [M]         25 W           current typical         0.1 W           started value         10	Input	
• at DC       12 48 V         input voltage       -         • at DC       10 58 V         Output       Controlled DC voltage         number of outputs       1         output voltage at DC rated value       24 V         formula for output voltage       Vin - approx. 0.6 V         output voltage at DC rated value       24 V         formula for output voltage adjustable       No         output voltage adjustable       No         output current       -         • at output 1 at DC rated value       40 A         product function output voltage adjustable       No         output current       -         • bridging of equipment       No         • bridging of equipment       97.5 %         provertorss [W]       -         • at rated voltput voltage for rated value of the output current typical       0.1 W         • at rated voltput voltage for rated value of the output current typical       0.1 W         • at rated voltput voltage for rated value of the output current typical       0.1 W         • at rated voltput voltage for rated value of the output current typical       No         • at rated voltput voltage for rated value of the output current typical       No         • at rated voltput voltage for rated value of the output	type of the power supply network	DC voltage
Input voltage       1058 V         Output       Controlled DC voltage         number of outputs       1         output voltage at DC rated value       24 V         formula for output voltage       Vin - approx. 0.6 V         output voltage       24 V         output voltage       Vin - approx. 0.6 V         output voltage       24 V         output voltage       24 V         output voltage       40 A         product function output voltage adjustable       No         output voltage digitable       No         output teature       40 A         product feature       40 A         product feature       40 A         bridging of equipment       No         Efficiency       97.5 %         power loss [M]       41 Tede output voltage for rated value of the output current typical         - during no-load operation maximum       0.1 W         Safety       galvanic isolation between input and output         operating resource protection class       Class III         protection class IP       IP20         Approvals       Yes, cluss-Listed (UL 500, CSA C22 2 No. 107.1), File E197259         CSA approval       Yes, CSA C22 2 No. 62368-1         - CE marking	supply voltage	
• at DC       10 58 V         Output       Controlled DC voltage         number of outputs       1         output voltage at DC rated value       24 V         formula for output voltage       Vin - approx. 0.6 V         output voltage       24 V         e at output voltage ad DC rated value       24 V         product function output voltage adjustable       No         output drated value       40 A         product feature       40 A         e rated value       40 A         power loss [W]       97.5 %         power loss [W]       25 W         efficiency in percent       97.5 %         power loss [W]       0.1 W         Safety       0.1 W         galvanic isolation between input and output       0.1 W         Safety       IP20         approvals       IP20         Approvals       Ves         certificate of suitability       Yes         • CE marking       Yes: CLus-Listed (UL 508, CSA C22 2 No. 107.1), File E197259         • CSA approval       Yes: CLus-Listed (UL 508, CSA C22 2 No. 107.1), File E197259         • CSA approval       Yes: CLus-Listed (UL 508, CSA C22 2 No. 107.1), File E197259         • CSA approval       Yes: CLus-Listed (UL 508, CS	• at DC	12 48 V
Output         Controlled DC voltage           number of outputs         1           output voltage at DC rated value         24 V           formula for output voltage         Vin - approx. 0.6 V           output voltage         Vin - approx. 0.6 V           output voltage         24 V           output voltage at DC rated value         24 V           • at output 1 at DC rated value         24 V           output outge adjustable         No           output output at DC rated value         24 V           e rated value         Podue           product feature         40 A           • bridging of equipment         No           Efficiency         efficiency           • at rated output voltage for rated value of the output current typical         0.1 W           • at rated output voltage for rated value of the output current typical         0.1 W           Safety         galvanic isolation between input and output         No           operating resource protection class         Class III           protection class IP         IP20           Approval         Yes; CULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259           • CSA approval         Yes; CSA C22.2 No. 62368-1           • Outporval         Yes; CSA C22.2 No. 62368-1	input voltage	
voltage curve at output         Controlled DC voltage           number of outputs         1           output voltage at DC rated value         24 V           formula for output voltage         Vin - approx. 0.6 V           output voltage adjustable         No           output current         24 V           • rated value         40 A           product function output voltage adjustable         No           output current         •           • bridging of equipment         No           Efficiency         efficiency           øuting no-load operation maximum         0.1 W           Safety         galvanic isolation between input and output           operating resource protection class         Class III           protection class IP         IP20           Approvals         Yes           • GL marking         Yes; CSA C22.2 No. 62368-1           • CSA approval	• at DC	10 58 V
number of outputs       1         output voltage at DC rated value       24 V         formula for output voltage       Vin - approx. 0.6 V         output voltage       24 V         • at output 1 at DC rated value       24 V         product function output voltage adjustable       No         output voltage adjustable       No         output current       40 A         • rated value       40 A         product feature       40 A         • bridging of equipment       No         Efficiency       efficiency         • at rated output voltage for rated value of the output current typical       25 W         • during no-load operation maximum       0.1 W         Safety       galvanic isolation between input and output         galvanic isolation between input and output       No         operating resource protection class       Class III         protocals IP       IP20         Approvals       Yes         • OL approval       Yes         • CE marking       Yes         • CE marking       Yes         • CE narking       Yes         • CESA approval       Yes         • CESA supcoval       No         ocestificate of suitability <td< td=""><td>Output</td><td></td></td<>	Output	
output voltage at DC rated value         24 V           formula for output voltage         Vin - approx. 0.6 V           output voltage         Vin - approx. 0.6 V           output voltage         24 V           product function output voltage adjustable         No           output current         40 A           e rated value         40 A           product function output voltage adjustable         No           output current         40 A           e rated value         40 A           product feature         40 A           e bridging of equipment         No           Efficiency         Protect feature           e dridging of equipment         97.5 %           power loss [W]         25 W           e at rate doutput voltage for rated value of the output current typical         0.1 W           Safety         25 W           galvanic isolation between input and output         No           operating resource protection class         Class III           protection class IP         IP20           Approvals         Certificate of suitability           ectificate of suitability         Yes; cULus-Listed (UL 508, CSA C22, 2 No. 107.1), File E197259           Yes; CSA approval         Yes; CSA C22, 2 No. 62368.1	voltage curve at output	Controlled DC voltage
formula for output voltage     Vin - approx. 0.6 V       output voltage     24 V       e at output 1 at DC rated value     24 V       product function output voltage adjustable     No       output current     40 A       e ital value     40 A       product feature     40 A       e bridging of equipment     No       Efficiency     97.5 %       power loss [W]     25 W       e atted output voltage for rated value of the output current typical     0.1 W       Safety     34 Vin - approxa       galvanic isolation between input and output     No       operating resource protection class     Class III       protection class IP     IP20       Approvals     Certificate of suitability       • CE marking     Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259       Yes; CSA C22.2 No. 62368-1     No       • ATEX     No       • ECC Class 2     No       • UL hazloc approval     No       • ECC Class 2     No       • UL hazloc approval     No	number of outputs	1
output voltage       24 V         • at output 1 at DC rated value       24 V         product function output voltage adjustable       No         output current       40 A         • rated value       40 A         product feature       40 A         • rated value       40 A         efficiency       efficiency         efficiency       97.5 %         power loss [W]       41 rated output voltage for rated value of the output ourrent typical         • during no-load operation maximum       0.1 W         Safety       galvanic isolation between input and output         galvanic isolation between input and output       No         operating resource protection class       Class III         protection class IP       IP20         Approvals       Ves; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259         • CSA approval       Yes; CSA C22.2 No. 62368-1         • CSAs Approval       Yes; CSA C22.2 No. 62368-1         • ATEX       No         certificate of suitability       Ves; CSA C22.2 No. 62368-1         • ECE x       No         • No       No         certificate of suitability       Ves; CSA C22.2 No. 62368-1         • No       No         • ECEx <t< td=""><td>output voltage at DC rated value</td><td>24 V</td></t<>	output voltage at DC rated value	24 V
• at output 1 at DC rated value         24 V           product function output voltage adjustable         No           output current         40 A           product feature         40 A           • bridging of equipment         No           Efficiency         No           efficiency in percent         97.5 %           power loss [W]         40 A           • at rate do utput voltage for rated value of the output current typical         25 W           • during no-load operation maximum         0.1 W           Sataty	formula for output voltage	Vin - approx. 0.6 V
product function output voltage adjustable No output current  • fated value  • bridging of equipment  • bridging of equip	output voltage	
output current     40 A       • rated value     40 A       product feature     No       • bridging of equipment     No       Efficiency     97.5 %       power loss [W]     97.5 %       • at rated output voltage for rated value of the output current typical     0.1 W       Safety     0.1 W       galvanic isolation between input and output     No       operating resource protection class     Class III       protection class IP     IP20       Approvals     Ves; CULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259       • CSA approval     Yes; CSA C22.2 No. 62368-1       • CCSAus, Class 1, Division 2     No       • ATEX     No       certificate of suitability     Ves; CSA C22.2 No. 62368-1       • CCSAus, Class 1, Division 2     No       • ATEX     No       certificate of suitability     Ves; CSA C22.2 No. 62368-1       • IECEx     No       • NEC Class 2     No       • NEC Class 2     No       • UL hazloc approval     No	<ul> <li>at output 1 at DC rated value</li> </ul>	24 V
• rated value40 Aproduct feature-• bridging of equipmentNoEfficiency97.5 %efficiency in percent97.5 %power loss [W]-• at rated output voltage for rated value of the output25 Wourrent typical0.1 W• during no-load operation maximum0.1 WSafety-galvanic isolation between input and outputNooperating resource protection classClass IIIprotection class IPIP20Approvals-certificate of suitabilityYes• UL approvalYes; CSA C22.2 No. 62368-1• CSAus, Class 1, Division 2No• ATEXNocertificate of suitabilityYes; CSA C22.2 No. 62368-1• CESAus, Class 2No• NEC Class 2No• NEC Class 2No• ULhazloc approvalNo• ULhazloc approvalNo	product function output voltage adjustable	No
product feature       No         Efficiency       Power loss [W]         efficiency in percent       97.5 %         power loss [W]       25 W         • at rated output voltage for rated value of the output current typical       25 W         • during no-load operation maximum       0.1 W         Safety	output current	
• bridging of equipment         No           Efficiency efficiency in percent         97.5 %           power loss [W]         97.5 %           • at rated output voltage for rated value of the output current typical         25 W           • during no-load operation maximum         0.1 W           Safety         97.5 %           galvanic isolation between input and output         No           operating resource protection class         Class III           protection class IP         IP20           Approvals         Certificate of suitability           • CE marking         Yes; CULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259           • CSA approval         Yes; CSA C22.2 No. 62368-1           • CCSAus, Class 1, Division 2         No           • ATEX         No           vertificate of suitability         IECEx           • NEC Class 2         No           • NEC Class 2         No           • UL hazloc approval         No	<ul> <li>rated value</li> </ul>	40 A
Efficiency         efficiency         efficiency in percent         power loss [W]         • at rated output voltage for rated value of the output current typical         • during no-load operation maximum         0.1 W         Safety         galvanic isolation between input and output         operating resource protection class         protection class IP         IP20         Approvals         certificate of suitability         • CE marking         • CSA approval         • CSA approval         • CALSS I, Division 2         • ATEX         No         certificate of suitability         • CE marking         Yes; CULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259         Yes; CSA C22.2 No. 62368-1         • CCSAus, Class 1, Division 2         • ATEX         No         certificate of suitability         • IECEx         • NEC Class 2         • VLhazloc approval         • ULhazloc approval         • ULhazloc approval	product feature	
efficiency in percent       97.5 %         power loss [W]       • at rated output voltage for rated value of the output current typical       25 W         • during no-load operation maximum       0.1 W         Safety	<ul> <li>bridging of equipment</li> </ul>	No
power loss [W]       at rated output voltage for rated value of the output current typical       25 W         • during no-load operation maximum       0.1 W         Safety       0.1 W         galvanic isolation between input and output       No         operating resource protection class       Class III         protection class IP       IP20         Approvals          certificate of suitability       Yes         • CE marking       Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259         • CSA approval       Yes; CSA C22.2 No. 62368-1         • cCSAus, Class 1, Division 2       No         • ATEX       No         certificate of suitability	Efficiency	
• at rated output voltage for rated value of the output current typical25 W• during no-load operation maximum0.1 WSafety0.1 Wgalvanic isolation between input and outputNooperating resource protection classClass IIIprotection class IPIP20ApprovalsYescertificate of suitabilityYes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259• CE markingYes; CSA C22.2 No. 62368-1• CCSAus, Class 1, Division 2No• ATEXNocertificate of suitabilityNo• LECExNo• NEC Class 2No• UL hazloc approvalNo• ULbhazloc approvalNo	efficiency in percent	97.5 %
current typical0.1 Wsafety0.1 Wgalvanic isolation between input and outputNooperating resource protection classClass IIIprotection class IPIP20ApprovalsCertificate of suitabilitycertificate of suitabilityYesUL approvalYes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259cCSA approvalYes; CSA C22.2 No. 62368-1ccCSAus, Class 1, Division 2Nocertificate of suitabilityNocertificate of suitabilityYes; CSA C22.2 No. 62368-1woNocertificate of suitabilityNocCSAus, Class 1, Division 2NoeATEXNocertificate of suitabilityIECExNeC Class 2NoNeC Class 2NoULhazloc approvalNoNoNo	power loss [W]	
Safety       No         galvanic isolation between input and output       No         operating resource protection class       Class III         protection class IP       IP20         Approvals       retrificate of suitability         certificate of suitability       Yes         UL approval       Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259         CSA approval       Yes; CSA C22.2 No. 62368-1         ccCSAus, Class 1, Division 2       No         ATEX       No         certificate of suitability       IECEx         NEC Class 2       No         NEC Class 2       No         ULhazloc approval       No		25 W
galvanic isolation between input and output       No         operating resource protection class       Class III         protection class IP       IP20         Approvals       Ves         certificate of suitability       Yes         • CE marking       Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259         • CSA approval       Yes; CSA C22.2 No. 62368-1         • cCSAus, Class 1, Division 2       No         • ATEX       No         certificate of suitability       IECEx         • NEC Class 2       No         • ULhazloc approval       No	<ul> <li>during no-load operation maximum</li> </ul>	0.1 W
operating resource protection classClass IIIprotection class IPIP20Approvalscertificate of suitability• CE markingYes• UL approvalYes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259• CSA approvalYes; CSA C22.2 No. 62368-1• cCSAus, Class 1, Division 2No• ATEXNocertificate of suitability• IECExNo• NEC Class 2No• UL approvalNo• UL approvalNo• UL approvalNo• UL approvalNo• OUL approvalNo• OUL approvalNo• OUL approvalNo• UL approvalNo• UL approvalNo• UL approvalNo• UL approvalNo• OUL approvalNo• OUL approvalNo• UL bazloc approvalNo	Safety	
protection class IPIP20Approvalscertificate of suitability • CE marking • UL approval • CSA approvalYes• UL approval 	galvanic isolation between input and output	No
Approvals         certificate of suitability          • CE marking       Yes         • UL approval       Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259         • CSA approval       Yes; CSA C22.2 No. 62368-1         • cCSAus, Class 1, Division 2       No         • ATEX       No         • IECEx       No         • NEC Class 2       No         • ULhazloc approval       No	operating resource protection class	Class III
certificate of suitability     Yes       • CE marking     Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259       • UL approval     Yes; cSA C22.2 No. 62368-1       • cCSAus, Class 1, Division 2     No       • ATEX     No       certificate of suitability     IECEx       • NEC Class 2     No       • ULhazloc approval     No	protection class IP	IP20
• CE markingYes• UL approvalYes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259• CSA approvalYes; CSA C22.2 No. 62368-1• cCSAus, Class 1, Division 2No• ATEXNocertificate of suitabilityImage: Certificate of suitability• IECExNo• NEC Class 2No• ULhazloc approvalNo	Approvals	
• UL approvalYes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259• CSA approvalYes; CSA C22.2 No. 62368-1• cCSAus, Class 1, Division 2No• ATEXNocertificate of suitabilityImproved to the suitability• IECExNo• NEC Class 2No• ULhazloc approvalNo	certificate of suitability	
• CSA approvalYes; CSA C22.2 No. 62368-1• cCSAus, Class 1, Division 2No• ATEXNocertificate of suitabilityImage: Certificate of suitability• IECExNo• NEC Class 2No• ULhazloc approvalNo	CE marking	Yes
• cCSAus, Class 1, Division 2     No       • ATEX     No       • certificate of suitability     No       • IECEx     No       • NEC Class 2     No       • ULhazloc approval     No	UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
• ATEX     No       certificate of suitability        • IECEx     No       • NEC Class 2     No       • ULhazloc approval     No	CSA approval	Yes; CSA C22.2 No. 62368-1
certificate of suitability     No       • IECEx     No       • NEC Class 2     No       • ULhazloc approval     No	<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No
• IECEx     No       • NEC Class 2     No       • ULhazloc approval     No	• ATEX	No
NEC Class 2     No     ULhazloc approval     No	certificate of suitability	
ULhazloc approval     No	• IECEx	No
	NEC Class 2	No
FM registration     No	ULhazloc approval	No
	• FM registration	No

certificate of suitability shipbuilding approval	No
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	No
<ul> <li>French marine classification society (BV)</li> </ul>	No
• DNV GL	No
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	No
EMC	
standard	
<ul> <li>for emitted interference</li> </ul>	EN 61000-6-3
<ul> <li>for interference immunity</li> </ul>	EN 61000-6-2
environmental conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-30 +70 °C; with natural convection
<ul> <li>during transport</li> </ul>	-40 +85 °C
during storage	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
type of electrical connection	push-in terminals
at input	In1, In2: each for 0.75 16 mm <sup>2</sup>
at output	Out1: 0.75 16 mm <sup>2</sup>
width of the enclosure	45 mm
height of the enclosure	135 mm
depth of the enclosure	125 mm
required spacing	
• top	45 mm
bottom	45 mm
• left	0 mm
• right	0 mm
net weight	0.51 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
MTBF at 40 °C	6 100 000 h
other information	Specifications at rated input voltage and ambient temperature +25 $^\circ\text{C}$ (unless otherwise specified)

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