## **SIEMENS**

## **Data sheet**



SIPLUS S7-1500 PM 1507 24V/8A

SIPLUS S7-1500 PM 1507 24V/8A based on 6EP1333-4BA00 with conformal coating, -40...+70 °C, stabilized power supply for SIMATIC S7-1500 input: 120/230 V AC output: 24 V DC/8 A

Figure similar

input		
type of the power supply network	1-phase AC	
supply voltage at AC	Automatic range selection	
supply voltage	120 V/230 V	
input voltage 1 at AC	85 132 V	
input voltage 2 at AC	170 264 V	
wide range input	No	
overvoltage overload capability	2.3 × Vin rated, 1.3 ms	
buffering time for rated value of the output current in the event of power failure minimum	20 ms	
operating condition of the mains buffering	at Vin = 93/187 V	
line frequency	50/60 Hz	
line frequency	45 65 Hz	
input current		
<ul> <li>at rated input voltage 120 V</li> </ul>	3.7 A	
at rated input voltage 230 V	1.7 A	
current limitation of inrush current at 25 °C maximum	62 A	
duration of inrush current limiting at 25 °C		
maximum	3 ms	
12t value maximum	12 A <sup>2</sup> ·s	
fuse protection type	T 6.3 A/250 V (not accessible)	
fuse protection type in the feeder	Recommended miniature circuit breaker: 16 A characteristic B or 10 A characteristic C	
output		
voltage curve at output	Controlled, isolated DC voltage	
output voltage at DC rated value	24 V	
output voltage		
at output 1 at DC rated value	24 V	
output voltage adjustable	No	
relative overall tolerance of the voltage	1 %	
relative control precision of the output voltage		
on slow fluctuation of input voltage	0.1 %	
on slow fluctuation of ohm loading	0.1 %	
residual ripple		
maximum	50 mV	
voltage peak		
maximum	150 mV	
display version for normal operation	LED green for 24 V OK; LED red for error; LED yellow for stand-by	
behavior of the output voltage when switching on	No overshoot of Vout (soft start)	

volugic current * rated value * a pixel a * rated value * a rated value * supplied active power typical * rated value * rated valu	response delay mayimum	15 e
• typical  of micel value  protect value  of micel value  of m	response delay maximum  voltage increase time of the output voltage	1.5 s
output carrier  • roted range		10 ms
* related range     * related range     * related range     * supplied active power typical     * supplied active power typical     * at abort-circual during operation bypical     * at abort-circual during operation bypical     * at abort-circual during operation bypical     * and abort-circual during operation bypical     * on a hort-circual during operation bypical     * on a hort-circual during operation bypical     * on a hort-circual during operation     * on a hort-circual purediction     * on a hort-c		10 1115
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duration of overloading capability for excess current  • on short-circulting during the start-up • of a short-circulting during the start-up • of a short-circulting during the start-up • of short-circulting during the start-up  **To ms	<ul> <li>on short-circuiting during the start-up typical</li> </ul>	35 A
- all short-circuiting operation     - all short-circuit during operation     bridging of equipment     number of parallel-switched equipment resources for increasing the power     officiency     officiency     officiency     officiency     officiency     officiency     officiency     officiency     or a trained output voltage for rated value of the output     or a trained output voltage for rated value of the output     or a trained output voltage for rated value of the output     or a trained output voltage by *1-15% typical     relative control precision of the output voltage and step of resistive load 5010050 % typical     relative control precision of the output voltage at load step of resistive load 5010050 % typical     relative control precision of the output voltage at load step of resistive load 5010050 % typical     olad step 10 to 90% typical     olad step 10 to 90% typical     olad step 10 to 90% typical     olad step 90 to 10% typical     olad step 90 to 10% typical     olad step 90 to 10% typical     olad step 10 to 90% typical     olad step 10 to 90		35 A
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Incriber of parallel-switched equipment resources for increasing between the power of the power	at short-circuit during operation	70 ms
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• load step 90 to 10% typical • maximum  protection and monitoring  design of the overvoltage protection Additional control loop, limitation (closed loop control) at < 28.8 V  property of the output short-circuit proof Yes  design of short-circuit protection Electronic shutdown, automatic restart  response value current limitation • typical 9 A  safoty  galvanic isolation between input and output Yes galvanic isolation Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2  operating resource protection class Class I  leakage current • maximum • typical 9.5 mA 1.3 mA protection class IP  EMC  standard • for emitted interference • for mains harmonics limitation • for menited interference • for mains harmonics limitation • for interference immunity EN 61000-6-2  standards, specifications, approvals  certificate of suitability • CE marking Ves  MTBF at 40 °C 1 362 918 h  ambient temperature • in horizontal mounting position during operation • during transport • for interdal mounting position during operation • during transport	setting time	
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design of the overvoltage protection	<ul><li>load step 90 to 10% typical</li></ul>	5 ms
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection Electronic shutdown, automatic restart response value current limitation • typical 9 A  safety galvanic isolation between input and output Yes galvanic isolation Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2 operating resource protection class Class I leakage current • maximum • typical 1.3 mA • typical standard • for emitted interference • for mains harmonics limitation • for emitted interference immunity EN 61000-6-2  standard, specifications, approvals certificate of suitability • CE marking Ves  MTBF at 40 °C  ambient conditions ambient temperature • in horizontal mounting position during operation • during transport  Additional control loop, limitation (electronic shutdown, automatic restart response to the output voltage voltage.  Electronic shutdown, automatic restart response value interferent intention and support value intention (electronic shutdown, automatic restart response value value response value response value value response	• maximum	E
property of the output short-circuit proof design of short-circuit protection  Electronic shutdown, automatic restart  response value current limitation • typical safety  galvanic isolation between input and output Yes galvanic isolation  Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2  operating resource protection class leakage current • maximum • typical • for emitted interference • for mains harmonics limitation • for emitted interference immunity • for interference immunity  standards, specifications, approvals  certificate of suitability • CE marking • UKCA marking  MTBF at 40 °C  ambient conditions  ambient temperature • in horizontal mounting position during operation • during transport  - 40 +70 °C; with natural convection • during transport  - 40 +85		5 MS
design of short-circuit protection  response value current limitation  • typical  9 A  safety galvanic isolation between input and output  yes galvanic isolation between input and output  yes galvanic isolation  operating resource protection class  leakage current  • maximum  • typical  protection class IP  EMC  Standard  • for emitted interference  • for mains harmonics limitation  • for interference immunity  • for interference immunity  • CE marking  • UKCA marking  MTBF at 40 °C  ambient conditions  ambient temperature  • in horizontal mounting position during operation  • during transport  Electronic shutdown, automatic restart  8.4 9.6 A  9 A  Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2  Class I  Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 5118 and EN 5		5 ms
response value current limitation  • typical  • typical  safety  galvanic isolation between input and output  Yes  galvanic isolation  Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2  operating resource protection class  Class I  leakage current  • maximum  • typical  • for emitted interference  • for mains harmonics limitation  • for interference immunity  EN 61000-3-2  standard  • for interference immunity  EN 61000-6-2  standards, specifications, approvals  certificate of suitability  • CE marking  • UKCA marking  MTBF at 40 °C  ambient conditions  ambient temperature  • in horizontal mounting position during operation  • during transport  -40 +70 °C; with natural convection  • during transport	protection and monitoring	
• typical 9 A  safety galvanic isolation between input and output Yes galvanic isolation galvanic isolation Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2  operating resource protection class  leakage current • maximum • typical	protection and monitoring design of the overvoltage protection	Additional control loop, limitation (closed loop control) at < 28.8 V
galvanic isolation between input and output galvanic isolation Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2 operating resource protection class  [leakage current	protection and monitoring  design of the overvoltage protection  property of the output short-circuit proof	Additional control loop, limitation (closed loop control) at < 28.8 V Yes
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galvanic isolation  Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2  operating resource protection class  Class I  leakage current  • maximum  • typical  protection class IP  IP20  EMC  standard  • for emitted interference  • for mains harmonics limitation  • for interference immunity  EN 61000-3-2  • for interference immunity  EN 61000-6-2  standards, specifications, approvals  certificate of suitability  • CE marking  • UKCA marking  MTBF at 40 °C  ambient conditions  ambient temperature  • in horizontal mounting position during operation  • during transport  Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2  Class I  Las I  Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 5017	protection and monitoring  design of the overvoltage protection  property of the output short-circuit proof  design of short-circuit protection  response value current limitation	Additional control loop, limitation (closed loop control) at < 28.8 V  Yes  Electronic shutdown, automatic restart  8.4 9.6 A
operating resource protection class    leakage current	protection and monitoring  design of the overvoltage protection  property of the output short-circuit proof  design of short-circuit protection  response value current limitation  • typical	Additional control loop, limitation (closed loop control) at < 28.8 V  Yes  Electronic shutdown, automatic restart  8.4 9.6 A
leakage current  • maximum  • typical  protection class IP  IP20  EMC  standard  • for emitted interference  • for mains harmonics limitation  • for interference immunity  EN 61000-3-2  • for interference immunity  EN 61000-6-2  standards, specifications, approvals  certificate of suitability  • CE marking  • UKCA marking  MTBF at 40 °C  ambient conditions  ambient temperature  • in horizontal mounting position during operation  • during transport  3.5 mA  1.3 mA  IP20  EN 61000  EN 55022 Class B  EN 61000-3-2  EN 61000-6-2  Standards, specifications, approvals  EN 61000-6-2  1 362 918 h  1 362 918 h  -40 +70 °C; with natural convection  -40 +85	protection and monitoring  design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection response value current limitation  • typical safety	Additional control loop, limitation (closed loop control) at < 28.8 V  Yes  Electronic shutdown, automatic restart  8.4 9.6 A  9 A
maximum	protection and monitoring  design of the overvoltage protection  property of the output short-circuit proof  design of short-circuit protection  response value current limitation  • typical  safety  galvanic isolation between input and output  galvanic isolation	Additional control loop, limitation (closed loop control) at < 28.8 V  Yes  Electronic shutdown, automatic restart  8.4 9.6 A  9 A  Yes  Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2
typical     protection class IP  EMC  standard      • for emitted interference     • for mains harmonics limitation     • for interference immunity     • for interference immunity  standards, specifications, approvals  certificate of suitability     • CE marking     • UKCA marking  MTBF at 40 °C  ambient conditions  ambient temperature     • in horizontal mounting position during operation     • during transport  1.3 mA  IP20  EN 61000  EN 55022 Class B  EN 61000-3-2  EN 61000-6-2  Standards, specifications, approvals  EN 61000-6-2  1 362 918 h  1 362 918 h  -40 +70 °C; with natural convection -40 +85	protection and monitoring  design of the overvoltage protection  property of the output short-circuit proof  design of short-circuit protection  response value current limitation  • typical  safety  galvanic isolation between input and output  galvanic isolation	Additional control loop, limitation (closed loop control) at < 28.8 V  Yes  Electronic shutdown, automatic restart  8.4 9.6 A  9 A  Yes  Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2
protection class IP  EMC  standard  • for emitted interference • for mains harmonics limitation • for interference immunity • for interference immunity  EN 61000-3-2  standards, specifications, approvals  certificate of suitability • CE marking • UKCA marking  MTBF at 40 °C  ambient conditions  ambient temperature • in horizontal mounting position during operation • during transport  IP20  EN 61000-  EN 55022 Class B  EN 61000-3-2  EN 61000-6-2  Standards, specifications, approvals  EN 61000-6-2  1 362 918 h  2 Yes  4 +70 °C; with natural convection -40 +85	design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection response value current limitation • typical safety galvanic isolation between input and output galvanic resource protection class	Additional control loop, limitation (closed loop control) at < 28.8 V  Yes  Electronic shutdown, automatic restart  8.4 9.6 A  9 A  Yes  Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2
standard  • for emitted interference • for mains harmonics limitation • for interference immunity • for interference immunity • FN 61000-3-2 • for interference immunity • EN 61000-6-2  standards, specifications, approvals  certificate of suitability • CE marking • UKCA marking  MTBF at 40 °C  1 362 918 h  ambient conditions  ambient temperature • in horizontal mounting position during operation • during transport  -40 +70 °C; with natural convection • during transport	design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection response value current limitation • typical safety galvanic isolation between input and output galvanic resource protection class leakage current	Additional control loop, limitation (closed loop control) at < 28.8 V  Yes  Electronic shutdown, automatic restart  8.4 9.6 A  9 A  Yes  Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2  Class I
standard  • for emitted interference  • for mains harmonics limitation  • for interference immunity  • for interference immunity  • The formal interference immunity  • The fo	design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection response value current limitation • typical safety galvanic isolation between input and output galvanic resource protection class leakage current • maximum	Additional control loop, limitation (closed loop control) at < 28.8 V  Yes  Electronic shutdown, automatic restart  8.4 9.6 A  9 A  Yes  Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2  Class I  3.5 mA
<ul> <li>for emitted interference</li> <li>for mains harmonics limitation</li> <li>EN 61000-3-2</li> <li>for interference immunity</li> <li>EN 61000-6-2</li> </ul> standards, specifications, approvals <ul> <li>certificate of suitability</li> <li>CE marking</li> <li>UKCA marking</li> <li>Yes</li> </ul> MTBF at 40 °C <ul> <li>1 362 918 h</li> </ul> ambient conditions <ul> <li>ambient temperature</li> <li>in horizontal mounting position during operation</li> <li>during transport</li> <li>-40 +70 °C; with natural convection</li> <li>during transport</li> </ul>	design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection response value current limitation • typical  safety galvanic isolation between input and output galvanic isolation  operating resource protection class leakage current • maximum • typical protection class IP	Additional control loop, limitation (closed loop control) at < 28.8 V  Yes  Electronic shutdown, automatic restart  8.4 9.6 A  9 A  Yes  Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2  Class I  3.5 mA  1.3 mA
for mains harmonics limitation     for interference immunity     EN 61000-3-2  standards, specifications, approvals  certificate of suitability     CE marking     Ves     UKCA marking  MTBF at 40 °C  ambient conditions  ambient temperature     in horizontal mounting position during operation     during transport  EN 61000-3-2  EN 61000-6-2   **EN 61000-6-2  **In 61000-6-2  *	design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection response value current limitation • typical  safety galvanic isolation between input and output galvanic isolation  operating resource protection class leakage current • maximum • typical protection class IP	Additional control loop, limitation (closed loop control) at < 28.8 V  Yes  Electronic shutdown, automatic restart  8.4 9.6 A  9 A  Yes  Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2  Class I  3.5 mA  1.3 mA
● for interference immunity  standards, specifications, approvals  certificate of suitability  ● CE marking  ● UKCA marking  MTBF at 40 °C  ambient conditions  ambient temperature  ● in horizontal mounting position during operation  ● during transport  ● for interference immunity  EN 61000-6-2  Yes  Yes  1 362 918 h  -40 +70 °C; with natural convection  -40 +85	design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection response value current limitation • typical safety galvanic isolation between input and output galvanic isolation  operating resource protection class leakage current • maximum • typical protection class IP EMC	Additional control loop, limitation (closed loop control) at < 28.8 V  Yes  Electronic shutdown, automatic restart  8.4 9.6 A  9 A  Yes  Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2  Class I  3.5 mA  1.3 mA
standards, specifications, approvals  certificate of suitability  • CE marking  • UKCA marking  MTBF at 40 °C  ambient conditions  ambient temperature  • in horizontal mounting position during operation  • during transport  • during transport  Yes  Yes  1 362 918 h  -40 +70 °C; with natural convection  -40 +85	design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection response value current limitation • typical  safety galvanic isolation between input and output galvanic isolation  operating resource protection class leakage current • maximum • typical protection class IP  EMC  standard	Additional control loop, limitation (closed loop control) at < 28.8 V  Yes  Electronic shutdown, automatic restart  8.4 9.6 A  9 A  Yes  Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2  Class I  3.5 mA  1.3 mA  IP20
certificate of suitability  • CE marking  • UKCA marking  MTBF at 40 °C  ambient conditions  ambient temperature  • in horizontal mounting position during operation  • during transport  • CE marking  Yes  1 362 918 h  1 362 918 h  -40 +70 °C; with natural convection  -40 +85	design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection response value current limitation • typical safety galvanic isolation between input and output galvanic isolation  operating resource protection class leakage current • maximum • typical protection class IP  EMC standard • for emitted interference	Additional control loop, limitation (closed loop control) at < 28.8 V  Yes  Electronic shutdown, automatic restart  8.4 9.6 A  9 A  Yes  Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2  Class I  3.5 mA  1.3 mA  IP20  EN 55022 Class B
CE marking  Ves  UKCA marking  Yes  MTBF at 40 °C  1 362 918 h  ambient conditions  ambient temperature  in horizontal mounting position during operation  during transport  Yes  1 362 918 h  -40 +70 °C; with natural convection  -40 +85	design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection response value current limitation • typical safety galvanic isolation between input and output galvanic isolation  operating resource protection class leakage current • maximum • typical protection class IP  EMC standard • for emitted interference • for mains harmonics limitation	Additional control loop, limitation (closed loop control) at < 28.8 V Yes Electronic shutdown, automatic restart 8.4 9.6 A 9 A  Yes Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I  3.5 mA 1.3 mA IP20  EN 55022 Class B EN 61000-3-2
● UKCA marking  MTBF at 40 °C  1 362 918 h  ambient conditions  ambient temperature  ● in horizontal mounting position during operation  • during transport  • UKCA marking  Yes  1 362 918 h  -40 +70 °C; with natural convection  -40 +85	design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection response value current limitation • typical  safety galvanic isolation between input and output galvanic isolation  operating resource protection class leakage current • maximum • typical protection class IP  EMC  standard • for emitted interference • for mains harmonics limitation • for interference immunity	Additional control loop, limitation (closed loop control) at < 28.8 V Yes Electronic shutdown, automatic restart 8.4 9.6 A 9 A  Yes Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I  3.5 mA 1.3 mA IP20  EN 55022 Class B EN 61000-3-2
MTBF at 40 °C  ambient conditions  ambient temperature  • in horizontal mounting position during operation  • during transport  1 362 918 h  -40 +70 °C; with natural convection  -40 +85	design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection response value current limitation • typical safety galvanic isolation between input and output galvanic isolation  operating resource protection class leakage current • maximum • typical protection class IP  EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals	Additional control loop, limitation (closed loop control) at < 28.8 V Yes Electronic shutdown, automatic restart 8.4 9.6 A 9 A  Yes Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I  3.5 mA 1.3 mA IP20  EN 55022 Class B EN 61000-3-2
ambient conditions  ambient temperature  ● in horizontal mounting position during operation  • during transport	design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection response value current limitation • typical  safety galvanic isolation between input and output galvanic isolation  operating resource protection class leakage current • maximum • typical protection class IP  EMC  standard • for emitted interference • for mains harmonics limitation • for interference immunity  standards, specifications, approvals certificate of suitability	Additional control loop, limitation (closed loop control) at < 28.8 V Yes Electronic shutdown, automatic restart 8.4 9.6 A 9 A  Yes Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I  3.5 mA 1.3 mA IP20  EN 55022 Class B EN 61000-3-2 EN 61000-6-2
ambient temperature	design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection response value current limitation • typical safety galvanic isolation between input and output galvanic isolation  operating resource protection class leakage current • maximum • typical protection class IP  EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking	Additional control loop, limitation (closed loop control) at < 28.8 V Yes Electronic shutdown, automatic restart 8.4 9.6 A 9 A  Yes Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I  3.5 mA 1.3 mA IP20  EN 55022 Class B EN 61000-3-2 EN 61000-6-2
<ul> <li>in horizontal mounting position during operation</li> <li>during transport</li> <li>-40 +70 °C; with natural convection</li> <li>-40 +85</li> </ul>	design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection response value current limitation • typical  safety galvanic isolation between input and output galvanic isolation  operating resource protection class leakage current • maximum • typical protection class IP  EMC  standard • for emitted interference • for mains harmonics limitation • for interference immunity  standards, specifications, approvals certificate of suitability • CE marking • UKCA marking	Additional control loop, limitation (closed loop control) at < 28.8 V  Yes  Electronic shutdown, automatic restart  8.4 9.6 A  9 A  Yes  Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2  Class I  3.5 mA  1.3 mA  IP20  EN 55022 Class B  EN 61000-3-2  EN 61000-6-2
• during transport -40 +85	design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection response value current limitation • typical  safety galvanic isolation between input and output galvanic isolation  operating resource protection class leakage current • maximum • typical protection class IP  EMC  standard • for emitted interference • for mains harmonics limitation • for interference immunity  standards, specifications, approvals certificate of suitability • CE marking • UKCA marking  MTBF at 40 °C	Additional control loop, limitation (closed loop control) at < 28.8 V  Yes  Electronic shutdown, automatic restart  8.4 9.6 A  9 A  Yes  Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2  Class I  3.5 mA  1.3 mA  IP20  EN 55022 Class B  EN 61000-3-2  EN 61000-6-2
	design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection response value current limitation • typical  safety galvanic isolation between input and output galvanic isolation  operating resource protection class leakage current • maximum • typical  protection class IP  EMC  standard • for emitted interference • for mains harmonics limitation • for interference immunity  standards, specifications, approvals  certificate of suitability • CE marking • UKCA marking  MTBF at 40 °C  ambient conditions	Additional control loop, limitation (closed loop control) at < 28.8 V  Yes  Electronic shutdown, automatic restart  8.4 9.6 A  9 A  Yes  Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2  Class I  3.5 mA  1.3 mA  IP20  EN 55022 Class B  EN 61000-3-2  EN 61000-6-2
	design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection response value current limitation • typical  safety galvanic isolation between input and output galvanic isolation  operating resource protection class leakage current • maximum • typical  protection class IP  EMC  standard • for emitted interference • for mains harmonics limitation • for interference immunity  standards, specifications, approvals  certificate of suitability • CE marking • UKCA marking  MTBF at 40 °C  ambient conditions ambient temperature	Additional control loop, limitation (closed loop control) at < 28.8 V Yes Electronic shutdown, automatic restart 8.4 9.6 A 9 A  Yes Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I  3.5 mA 1.3 mA IP20  EN 55022 Class B EN 61000-3-2 EN 61000-6-2  Yes Yes Yes 1 362 918 h
• during storage -40 +85	design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection response value current limitation • typical  safety galvanic isolation between input and output galvanic isolation  operating resource protection class leakage current • maximum • typical  protection class IP  EMC  standard • for emitted interference • for mains harmonics limitation • for interference immunity  standards, specifications, approvals certificate of suitability • CE marking • UKCA marking  MTBF at 40 °C  ambient conditions  ambient temperature • in horizontal mounting position during operation	Additional control loop, limitation (closed loop control) at < 28.8 V Yes Electronic shutdown, automatic restart 8.4 9.6 A 9 A  Yes Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2 Class I  3.5 mA 1.3 mA IP20  EN 55022 Class B EN 61000-3-2 EN 61000-6-2  Yes Yes 1 362 918 h

installation altitude at height above see level maximum	6 000 m	
installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure		
- installation altitude	In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m	
relative humidity with condensation according to IEC 60068-2-38 maximum	100 %; RH incl. condensation/frost (no commissioning if condensation is present), horizontal installation	
chemical resistance to commercially available cooling lubricants	Yes; incl. diesel and oil droplets in the air	
resistance to biologically active substances conformity according to EN 60721-3-3	Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request	
resistance to chemically active substances conformity according to EN 60721-3-3	Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)	
resistance to mechanically active substances conformity according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust	
resistance to biologically active substances conformity according to EN 60721-3-6	Yes; Class 6B2 mold, fungal, sponge spores (except fauna)	
resistance to chemically active substances conformity according to EN 60721-3-6	Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)	
resistance to mechanically active substances conformity according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust	
coating for equipped printed circuit board according to EN 61086	Yes; Class 2 for high availability	
type of coating protection against pollution according to EN 60664-3	Yes; Type 1 protection	
type of test of the coating according to MIL-I-46058C	Yes; Discoloration of the coating during service life possible	
product conformity of the coating Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal Coating, Class A	
connection method		
type of electrical connection	Screw-/spring clamp connection	
• at input	L, N, PE: 1 screw terminal each for 0.5 2.5 mm <sup>2</sup>	
at output	L+, M: 2 spring-loaded terminals each for 0.5 to 2.5 mm <sup>2</sup>	
removable terminal at input	Yes	
removable terminal at output	Yes	
mechanical data		
width × height × depth of the enclosure	75 × 147 × 129 mm	
installation width × mounting height	75 mm × 205 mm	
required spacing	10 111111 200 111111	
• top	40 mm	
• bottom		
• left	40 mm	
	0 mm	
◆ right  fastening method	0 mm	
· ·	Can be mounted onto S7-1500 rail	
DIN-rail mounting     C7 rail mounting	No	
• S7 rail mounting  Yes		
wall mounting	No	
housing can be lined up	Yes 0.74 kg	
net weight	0.74 kg	
further information internet links		
internet link		
to website: Industry Mall	https://mall.industry.siemens.com	
to website: Industry Online Support	https://support.industry.siemens.com	
additional information		
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	
security information		
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions	

recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Classifications

	Version	Classification
eClass	14	27-04-07-01
eClass	12	27-04-07-01
eClass	9.1	27-04-07-01
eClass	9	27-04-07-01
eClass	8	27-04-90-02
eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

**General Product Approval** 

EMV

Miscellaneous

Manufacturer Declara-<u>tion</u>







<u>KC</u>

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Marine / Shipping





last modified:

11/14/2024

