## SIEMENS

## Data sheet

## 6ES7307-1EA01-0AA0



SIMATIC PS307/1AC/24VDC/5A

SIMATIC S7-300 Regulated power supply PS307 input: 120/230 V AC, output: 24 V/5 A DC

| lype of the power supply network         1-phase AC           supply voltage at AC         Automatic range selection           input voltage 1 at AC         85132 V           input voltage 2 at AC         170264 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 for 8           operating condition of the mains buffering         at Vin = 93/187 V           line frequency         60/60 Hz           line frequency         47 63 Hz           ing to urrent         33 × 0           et at rated input voltage 120 V         23 A           et at rated input voltage 230 V         1.2 A           current limitation of invisit current at 25 °C         3 ms           i21 value maximum         1.2 A^* s           fuse protection type         1.3 15 A/250 V (not accessible)     <   | input   |  |
|---|---|--|
| supply voltage         120 V/230 V           input voltage 1 at AC         86132 V           input voltage 2 at AC         170284 V           wide range input         No           overvoltage overload capability         2.3 × Vin rated, 1.3 ms           Duffering time for rated value of the output current in the event of<br>power failure minimum         20 ms           operating condition of the mains buffering         at Vin = 93/187 V           line frequency         50/60 Hz           line frequency         47 63 Hz           input voltage 230 V         1.2 A           current limitation of inrush current at 25 °C         3 ms           e at rated input voltage 120 V         2.3 A           its protection type         17.15 A/250 V (not accessible)           fuse protection type in the feeder         Recommended miniature circuit breaker: from 6 A characteristic C           output voltage at DC rated value         24 V           output voltage at DC rated value         24 V           output voltage at JDC rated value         24 V           output voltage at DC rated value         24 V           output voltage adjustable         No; -           relative overall tolerance of the voltage         3 %           relative overall tolerance of the voltage         0.5 % <tr< td=""><td>type of the power supply network</td><td>1-phase AC</td></tr<>  | type of the power supply network                      | 1-phase AC   |
| 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<br>power failure minimum     20 ms       operating condition of the mains buffering     at Vin = 93/187 V       line frequency     50/60 Hz       line frequency     50/60 Hz       in frequency     2.3 A       • at rated input voltage 120 V     2.3 A       • at rated input voltage 230 V     2.3 A       current limitation of inrush current at 25 °C maximum     20 A       duration of inrush current at 25 °C maximum     3 ms       121 value maximum     1.2 A*s       fuse protection type     T 3.15 A/250 V (not accessible)       fuse protection type in the feeder     Recommended miniature circuit breaker: from 8 A characteristic C       output voltage at DC rated value     24 V       output voltage at DC rated value     24 V       output voltage at DC rated value     3 %       relative correll to erace of the voltage     3 %       relative correll to erace of the voltage     0.1 %       output voltage adjustable     No; -       erasimum     50 mV       • on slow fluctuation of hom loading     0.5 %       residual ripple </td <td>supply voltage at AC</td> <td>Automatic range selection</td>  | supply voltage at AC                                  | Automatic range selection  |
| input voltage 2 at AC       170 284 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       47 63 Hz         line frequency       47 63 Hz         input voltage 220 V       2.3 A         • at rated input voltage 120 V       2.3 A         • at rated input voltage 220 V       2.3 A         • at rated input voltage 220 V       2.3 A         uration of inrush current 11miting at 25 °C       • maximum         12 Value maximum       1.2 A*s         fuse protection type       T 3,15 A/250 V (not accessible)         fuse protection type       T 3,15 A/250 V (not accessible)         voltage curve at output       Controlled, isolated DC voltage         output voltage ad DC rated value       24 V         output voltage adjustable       No; -         relative course of the voltage       3 %         • at output 1 at DC rated value       24 V         output voltage adjustable       No; -         relative course of the voltage       0.1 %         • on slow fluctuation  | supply voltage  | 120 V/230 V  |
| wide range input     No       overvoltage overload capability     2.3 × Vin rated, 1.3 ms       buffening time for rated value of the output current in the event of<br>power failure minimum     20 ms       operating condition of the mains buffering     at Vin = 93/187 V       line frequency     50/60 Hz       line frequency     47 63 Hz       input current     2.3 A       • at rated input voltage 120 V     2.3 A       • at rated input voltage 230 V     1.2 A       current limitation of inrush current at 25 °C     • maximum       1.2 A     0 A       duration of inrush current 125 °C     • maximum       1.2 A2×5     1 (not cocessible)       fuse protection type     T 3.15 A/250 V (not accessible)       fuse protection type in the feeder     Recommended miniature circuit breaker: from 6 A characteristic C       output voltage     24 V       output voltage at DC rated value     24 V       output voltage     3 %       relative correal to finance of the voltage     3 %       entaiture or finut voltage     0.1 %       • on asiom fluctuation of only voltage     0.1 %       • output voltage adjustable     No; -       relative correal to finance of the voltage     0.1 %       • on slow fluctuation of ohm loading     0.5 %       relative correal torence of the voltage   | input voltage 1 at AC                                 | 85 132 V   |
| overvoltage overload capability     2.3 × Vin rated, 1.3 ms       buffering time for rated value of the output current in the event of<br>power failure minimum     20 ms       operating condition of the mains buffering     at Vin = 93/167 V       line frequency     50/60 Hz       line frequency     50/60 Hz       input current     2.3 A       • at rated input voltage 120 V     2.3 A       • at rated input voltage 230 V     1.2 A       current limitation of inrush current at 25 °C maximum     20 A       duration of inrush current limiting at 25 °C     ams       • maximum     1.2 A* s       12t value maximum     1.2 A* s       fuse protection type     T 3,15 A/250 V (not accessible)       fuse protection type in the feeder     Recommended miniature circuit breaker; from 6 A characteristic C       output voltage at DC rated value     24 V       output voltage at DC rated value     24 V       output voltage adjustable     No; -       relative cortrol precision of the output voltage     3 %       e on slow fluctuation of input voltage     0.1 %       output voltage adjustable     No; -       relative cortrol precision of the output voltage     0.5 %       e at submum     50 mV       output voltage adjustable     0.5 %       output voltage peak     0.5 mV       e maximum <td>input voltage 2 at AC</td> <td>170 264 V</td>   | input voltage 2 at AC                                 | 170 264 V  |
| 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     47 63 Hz       input current     2.3 A       • at rated input voltage 120 V     2.3 A       • at rated input voltage 230 V     1.2 A       current limitation of inrush current at 25 °C maximum     20 A       duration of inrush current at 25 °C maximum     3 ms       12t value maximum     1.2 A*-s       fuse protection type     T 3, 15 A/250 V (not accessible)       fuse protection type     T 3, 15 A/250 V (not accessible)       fuse protection type in the feeder     Recommended miniature circuit breaker: from 6 A characteristic C       output voltage at DC rated value     24 V       output voltage adjustable     No; -       relative control precision of the voltage     3 %       relative control precision of the output voltage     3 %       output voltage adjustable     0.1 %       • on slow fluctuation of niput voltage     0.1 %       • on slow fluctuation of niput voltage     0.1 %       • on slow fluctuation of niput voltage     0.1 %       • on slow fluctuation of niput voltage     0.1 %       • on slow fluctuation of noh loading     0.5 %       relative contro  | wide range input                                      | No   |
| power failure minimum         at Vin = 93/187 V           ilne frequency         50/60 Hz           line frequency         47 63 Hz           input current         2.3 A           • at rated input voltage 120 V         2.3 A           • at rated input voltage 230 V         1.2 A           current limitation of inrush current at 25 °C         at rated input voltage 230 V           • dratade input voltage 230 V         1.2 A           current limitation of inrush current at 25 °C         at rated input voltage 120 V           • maximum         3 ms           121 value maximum         1.2 A*s           fuse protection type         T 3.15 A/250 V (not accessible)           fuse protection type in the feeder         Recommended miniature circuit breaker: from 6 A characteristic C           output         voltage curve at output         Controlled, isolated DC voltage           output voltage at DC rated value         24 V         output voltage adjustable           • at output 1 at DC rated value         24 V         output voltage adjustable           • on slow fluctuation of input voltage         3 %           relative control precision of the output voltage         0.1 %           • on slow fluctuation of nino loading         0.5 %           residual inpiple         50 mV  | overvoltage overload capability                       | 2.3 × Vin rated, 1.3 ms  |
| Ine frequency       50/60 Hz         line frequency       47 63 Hz         input current       2.3 A         • at rated input voltage 120 V       2.3 A         • at rated input voltage 230 V       1.2 A         current limitation of inrush current at 25 °C maximum       20 A         duration of inrush current limiting at 25 °C       •         • maximum       1.2 A <sup>2</sup> ·s         [Izt value maximum       1.2 A <sup>2</sup> ·s         fuse protection type       T 3.15 A/250 V (not accessible)         fuse protection type in the feeder       Recommended miniature circuit breaker: from 6 A characteristic C         output       Voltage         voltage at DC rated value       24 V         output voltage at DC rated value       24 V         output voltage adjustable       No; -         relative overall tolerance of the voltage       3 %         relative control precision of the output voltage       0.1 %         output voltage adjustable       No; -         relative control procision of the uotput voltage       0.5 %         residual ripple       0.1 %         output voltage peak       150 mV         vitypical       20 mV   |   | 20 ms  |
| line frequency       47 63 Hz         input current       2.3 A         • at rated input voltage 120 V       2.3 A         • at rated input voltage 230 V       1.2 A         current limitation of inrush current at 25 °C maximum       20 A         duration of inrush current limiting at 25 °C       • maximum         12t value maximum       1.2 A²-s         fuse protection type       T 3.15 A/250 V (not accessible)         fuse protection type in the feeder       Recommended miniature circuit breaker: from 6 A characteristic C         output       voltage curve at output       Controlled, isolated DC voltage         output voltage at DC rated value       24 V         output voltage adjustable       No; -         relative control precision of the voltage       3 %         relative control precision of the voltage       0.1 %         o on slow fluctuation of niput voltage       0.1 %         o on slow fluctuation of ohm loading       0.5 %         residual ripple       50 mV         • typical       10 mV         voltage peak       150 mV         • typical       20 mV  | operating condition of the mains buffering            | at Vin = 93/187 V  |
| input current<br>• at rated input voltage 120 V<br>• at rated input voltage 230 V<br>current limitation of inrush current at 25 °C maximum<br>20 A<br>duration of inrush current at 25 °C maximum<br>20 A<br>duration of inrush current limiting at 25 °C<br>• maximum<br>1.2 A <sup>2</sup> s<br>fuse protection type<br>T 3,15 A/250 V (not accessible)<br>fuse protection type in the feeder<br>relative at output<br>voltage curve at output<br>• at output 1 at DC rated value<br>• on slow fluctuation of the output voltage<br>• on slow fluctuation of the output voltage<br>• on slow fluctuation of ohm loading<br>• on slow fluctuation of ohm loading<br>• typical<br>• maximum<br>• typical<br>• typical | line frequency  | 50/60 Hz   |
| • at rated input voltage 120 V       2.3 A         • at rated input voltage 230 V       1.2 A         current limitation of inrush current at 25 °C maximum       20 A         duration of inrush current limiting at 25 °C   | line frequency  | 47 63 Hz   |
| • at rated input voltage 230 V       1.2 A         current limitation of inrush current at 25 °C maximum       20 A         duration of inrush current limiting at 25 °C       -         • maximum       3 ms         I2t value maximum       1.2 A <sup>2</sup> ·s         fuse protection type in the feeder       Recommended miniature circuit breaker: from 6 A characteristic C         output       voltage curve at output       Controlled, isolated DC voltage         output voltage at DC rated value       24 V         output voltage adjustable       No; -         relative overall tolerance of the voltage       3 %         relative control precision of the output voltage       0.1 %         on slow fluctuation of ohm loading       0.5 %         residual ripple       0.1 %         output voltage peak       10 mV         voltage peak       20 mV   | input current   |  |
| current limitation of inrush current at 25 °C maximum       20 A         duration of inrush current limiting at 25 °C       3 ms         I2t value maximum       1.2 A <sup>2</sup> ·s         fuse protection type       T 3,15 A/250 V (not accessible)         fuse protection type in the feeder       Recommended miniature circuit breaker: from 6 A characteristic C         output       Voltage curve at output       Controlled, isolated DC voltage         output voltage at DC rated value       24 V         output voltage       24 V         output voltage adjustable       No; -         relative overall tolerance of the voltage       3 %         relative control precision of the output voltage       0.1 %         o on slow fluctuation of input voltage       0.5 %         residual ripple       50 mV         • maximum       50 mV         • typical       10 mV  | <ul> <li>at rated input voltage 120 V</li> </ul>      | 2.3 A  |
| duration of inrush current limiting at 25 °C <ul> <li>maximum</li> <li>3 ms</li> <li>12t value maximum</li> <li>1.2 A<sup>2</sup>·s</li> <li>fuse protection type</li> <li>T 3,15 A/250 V (not accessible)</li> <li>Recommended miniature circuit breaker: from 6 A characteristic C</li> <li>output</li> <li>voltage curve at output</li> <li>controlled, isolated DC voltage</li> <li>output voltage at DC rated value</li> <li>e at output 1 at DC rated value</li> <li>output voltage adjustable</li> <li>No; -</li> <li>relative control precision of the output voltage</li> <li>on slow fluctuation of input voltage</li> <li>on slow fluctuation of him loading</li> <li>0.5 %</li> <li>residual ripple</li> <li>maximum</li> <li>50 mV</li> <li>typical</li> <li>150 mV</li> <li>20 mV</li> <li>150 mV</li> <li>20 mV</li></ul>  | at rated input voltage 230 V                          | 1.2 A  |
| • maximum3 msI2t value maximum1.2 A²-sfuse protection typeT 3,15 A/250 V (not accessible)fuse protection type in the feederRecommended miniature circuit breaker: from 6 A characteristic CoutputVoltage curve at outputvoltage at DC rated value24 Voutput voltage24 Voutput voltage adjustableNo; -relative overall tolerance of the voltage3 %relative control precision of the output voltage0.1 %outs with fuctuation of input voltage0.1 %outs with residual ripple50 mVexaminum50 mVvoltage peak150 mVe maximum150 mVe typical20 mV  | current limitation of inrush current at 25 °C maximum | 20 A   |
| I2t value maximum       1.2 A <sup>2</sup> ·s         fuse protection type       T 3,15 A/250 V (not accessible)         fuse protection type in the feeder       Recommended miniature circuit breaker: from 6 A characteristic C         output       Controlled, isolated DC voltage         output voltage at DC rated value       24 V         output voltage adjustable       No; -         relative overall tolerance of the voltage       3 %         relative control precision of the output voltage       0.1 %         on slow fluctuation of input voltage       0.1 %         e and solw fluctuation of ohm loading       0.5 %         residual ripple       10 mV         woltage peak       10 mV         e typical       20 mV  | duration of inrush current limiting at 25 °C          |  |
| fuse protection type       T 3,15 A/250 V (not accessible)         fuse protection type in the feeder       Recommended miniature circuit breaker: from 6 A characteristic C         output       Voltage curve at output       Controlled, isolated DC voltage         output voltage at DC rated value       24 V         output voltage adjustable       24 V         output voltage adjustable       No; -         relative overall tolerance of the voltage       3 %         relative control precision of the output voltage       0.1 %         on slow fluctuation of input voltage       0.1 %         e on slow fluctuation of ohm loading       0.5 %         residual ripple       50 mV         e typical       10 mV         voltage peak       150 mV         e typical       20 mV   | • maximum   | 3 ms   |
| fuse protection type in the feeder       Recommended miniature circuit breaker: from 6 A characteristic C         output       Controlled, isolated DC voltage         output voltage at DC rated value       24 V         output voltage       24 V         output voltage adjustable       24 V         output voltage adjustable       No; -         relative overall tolerance of the voltage       3 %         relative control precision of the output voltage       0.1 %         on slow fluctuation of input voltage       0.5 %         residual ripple       50 mV         • typical       10 mV         voltage peak       150 mV         • typical       20 mV   | I2t value maximum                                     | 1.2 A <sup>2</sup> ·s  |
| output         voltage curve at output       Controlled, isolated DC voltage         output voltage at DC rated value       24 V         output voltage       24 V         output voltage adjustable       No; -         relative overall tolerance of the voltage       3 %         relative control precision of the output voltage       0.1 %         outs will tripple       0.5 %         residual ripple       10 mV         voltage peak       150 mV         • maximum       150 mV         • typical       20 mV  | fuse protection type                                  | T 3,15 A/250 V (not accessible)                                  |
| voltage curve at output         Controlled, isolated DC voltage           output voltage at DC rated value         24 V           output voltage         24 V           output voltage adjustable         24 V           output voltage adjustable         No; -           relative overall tolerance of the voltage         3 %           relative control precision of the output voltage         0.1 %           output inple         0.5 %           residual ripple         10 mV           voltage peak         150 mV           • maximum         150 mV           • typical         20 mV   | fuse protection type in the feeder                    | Recommended miniature circuit breaker: from 6 A characteristic C |
| output voltage at DC rated value24 Voutput voltage24 V• at output 1 at DC rated value24 Voutput voltage adjustableNo; -relative overall tolerance of the voltage3 %relative control precision of the output voltage0.1 %• on slow fluctuation of input voltage0.1 %• on slow fluctuation of ohm loading0.5 %residual ripple50 mV• typical10 mVvoltage peak150 mV• typical20 mV  | output  |  |
| output voltage       24 V         output voltage adjustable       No; -         relative overall tolerance of the voltage       3 %         relative control precision of the output voltage       0.1 %         • on slow fluctuation of input voltage       0.1 %         • on slow fluctuation of ohm loading       0.5 %         residual ripple       10 mV         • typical       10 mV         voltage peak       150 mV         • typical       20 mV  | voltage curve at output                               | Controlled, isolated DC voltage                                  |
| • at output 1 at DC rated value24 Voutput voltage adjustableNo; -relative overall tolerance of the voltage3 %relative control precision of the output voltage0.1 %• on slow fluctuation of input voltage0.1 %• on slow fluctuation of ohm loading0.5 %residual ripple50 mV• typical10 mVvoltage peak150 mV• typical20 mV  | output voltage at DC rated value                      | 24 V   |
| output voltage adjustableNo; -relative overall tolerance of the voltage3 %relative control precision of the output voltage0.1 %• on slow fluctuation of input voltage0.1 %• on slow fluctuation of ohm loading0.5 %residual ripple-• maximum50 mV• typical10 mVvoltage peak-• maximum150 mV• typical20 mV   | output voltage  |  |
| relative overall tolerance of the voltage       3 %         relative control precision of the output voltage       0.1 %         • on slow fluctuation of input voltage       0.1 %         • on slow fluctuation of ohm loading       0.5 %         residual ripple       50 mV         • typical       10 mV         voltage peak       150 mV         • typical       20 mV  | <ul> <li>at output 1 at DC rated value</li> </ul>     | 24 V   |
| relative overall tolerance of the voltage       3 %         relative control precision of the output voltage       0.1 %         • on slow fluctuation of input voltage       0.1 %         • on slow fluctuation of ohm loading       0.5 %         residual ripple       50 mV         • typical       10 mV         voltage peak       150 mV         • typical       20 mV  | output voltage adjustable                             | No: -  |
| relative control precision of the output voltage       0.1 %         • on slow fluctuation of input voltage       0.1 %         • on slow fluctuation of ohm loading       0.5 %         residual ripple  |   |  |
| • on slow fluctuation of input voltage0.1 %• on slow fluctuation of ohm loading0.5 %residual ripple-• maximum50 mV• typical10 mVvoltage peak-• maximum150 mV• typical20 mV  |   |  |
| • on slow fluctuation of ohm loading     0.5 %       residual ripple     -       • maximum     50 mV       • typical     10 mV       voltage peak     -       • maximum     150 mV       • typical     20 mV  |   | 0.1 %  |
| residual ripple     50 mV       • maximum     50 mV       • typical     10 mV       voltage peak     150 mV       • maximum     150 mV       • typical     20 mV  |   |  |
| • maximum     50 mV       • typical     10 mV       voltage peak     10 mV       • maximum     150 mV       • typical     20 mV   |   |  |
| • typical     10 mV       voltage peak     -       • maximum     150 mV       • typical     20 mV   |   | 50 mV  |
| voltage peak       • maximum       • typical   150 mV 20 mV   |   |  |
| • maximum         150 mV           • typical         20 mV  |   |  |
| • typical 20 mV   |   | 150 mV   |
|   |   |  |
|   | display version for normal operation                  |  |
| behavior of the output voltage when switching on No overshoot of Vout (soft start)  |   | No overshoot of Vout (soft start)                                |

|   | _  |
|---|--|
| response delay maximum  | 2 s  |
| voltage increase time of the output voltage   |  |
| • typical   | 10 ms  |
| output current  |  |
| <ul> <li>rated value</li> </ul>   | 5 A  |
| rated range   | 0 5 A  |
| supplied active power typical   | 120 W  |
| short-term overload current   |  |
| <ul> <li>on short-circuiting during the start-up typical</li> </ul>   | 20 A   |
| at short-circuit during operation typical   | 20 A   |
| duration of overloading capability for excess current   |  |
| <ul> <li>on short-circuiting during the start-up</li> </ul>   | 100 ms   |
| at short-circuit during operation   | 100 ms   |
| bridging of equipment   | Yes  |
| efficiency  |  |
| efficiency in percent   | 87 %   |
| power loss [W]  |  |
| <ul> <li>at rated output voltage for rated value of the output<br/>current typical</li> </ul>                   | 18 W   |
| closed-loop control   |  |
| relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical | 0.1 %  |
| relative control precision of the output voltage load step of   | 1 %  |
| resistive load 50/100/50 % typical  |  |
| setting time  |  |
| <ul> <li>load step 50 to 100% typical</li> </ul>  | 0.3 ms   |
| <ul> <li>load step 100 to 50% typical</li> </ul>  | 0.3 ms   |
| protection and monitoring   |  |
| design of the overvoltage protection  | Additional control loop, shutdown at < 28.8 V, automatic restart     |
| property of the output short-circuit proof  | Yes  |
| design of short-circuit protection  | Electronic shutdown, automatic restart                               |
| response value current limitation   | 5.5 6.5 A  |
| enduring short circuit current RMS value  |  |
| • maximum   | 7 A  |
| safety  |  |
| galvanic isolation between input and output   | Yes  |
| galvanic isolation  | Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 |
| operating resource protection class   | Class I  |
| leakage current   |  |
| • maximum   | 3.5 mA   |
| • typical   | 0.5 mA   |
| protection class IP   | IP20   |
| EMC   |  |
| standard  |  |
| <ul> <li>for emitted interference</li> </ul>  | EN 55022 Class B   |
| <ul> <li>for mains harmonics limitation</li> </ul>  | EN 61000-3-2   |
| for interference immunity   | EN 61000-6-2   |
| standards, specifications, approvals  |  |
| certificate of suitability  |  |
| • CE marking  | Yes  |
| UL approval   | Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289          |
| CSA approval  | Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289          |
| UKCA marking  | Yes  |
|   |  |
| <ul> <li>EAC approval</li> </ul>  | Yes  |
| <ul><li>EAC approval</li><li>NEC Class 2</li></ul>  | Yes<br>No  |
|   |  |
| NEC Class 2   |  |
| NEC Class 2 type of certification   | No   |
| NEC Class 2 type of certification     BIS   | No<br>Yes; R-41183539  |
| NEC Class 2 type of certification     BIS     CB-certificate  | No<br>Yes; R-41183539<br>Yes   |

| • IECEx  | Yes; IECEx Ex nA nC IIC T3 Gc   |  |  |
|--|---|--|--|
| • ATEX   |   |  |  |
|  | Yes; ATEX (EX) II 3G Ex nA nC IIC T3 Gc   |  |  |
| ULhazloc approval  | Yes   |  |  |
| • cCSAus, Class 1, Division 2  | No  |  |  |
| UKEX     CCC for bozordoup zone cooperating to CR standard                                   | Yes   |  |  |
| <ul> <li>CCC for hazardous zone according to GB standard</li> <li>FM registration</li> </ul> | Yes   |  |  |
| standards, specifications, approvals marine classification                                   | Yes; Class I, Div. 2, Group ABCD, T4  |  |  |
| shipbuilding approval  | Yes   |  |  |
| Marine classification association  |   |  |  |
| American Bureau of Shipping Europe Ltd. (ABS)  | No  |  |  |
| French marine classification society (BV)  | No  |  |  |
| Det Norske Veritas (DNV)   | Yes   |  |  |
| Lloyds Register of Shipping (LRS)  | Yes   |  |  |
| standards, specifications, approvals Environmental Product De                                |   |  |  |
| Environmental Product Declaration  | Yes   |  |  |
| Global Warming Potential [CO2 eq]  |   |  |  |
| • total  | 575.4 kg  |  |  |
| during manufacturing   | 11.8 kg   |  |  |
| during operation   | 563.1 kg  |  |  |
| after end of life  | 0.38 kg   |  |  |
| ambient conditions   |   |  |  |
| ambient temperature  |   |  |  |
| during operation   | 0 60; with natural convection   |  |  |
| during transport   | -40 +85   |  |  |
| during storage   | -40 +85   |  |  |
| environmental category according to IEC 60721  | Climate class 3K3, 5 95% no condensation  |  |  |
| connection method  |   |  |  |
| type of electrical connection  | screw terminal  |  |  |
| • at input   | L, N, PE: 1 screw terminal each for 0.5 2.5 mm <sup>2</sup> single-core/finely stranded   |  |  |
| • at output  | L+, M: 3 screw terminals each for 0.5 2.5 mm <sup>2</sup>   |  |  |
| for auxiliary contacts   | _ ,   |  |  |
| mechanical data  |   |  |  |
| width × height × depth of the enclosure  | 60 × 125 × 120 mm   |  |  |
| installation width × mounting height   | 60 mm × 205 mm  |  |  |
| required spacing   |   |  |  |
| • top  | 40 mm   |  |  |
| bottom   | 40 mm   |  |  |
| • left   | 0 mm  |  |  |
| ● right  | 0 mm  |  |  |
| fastening method   | Can be mounted onto S7 rail   |  |  |
| standard rail mounting   | No  |  |  |
| • S7 rail mounting   | Yes   |  |  |
| wall mounting  | No  |  |  |
| housing can be lined up  | Yes   |  |  |
| net weight   | 0.6 kg  |  |  |
| accessories  |   |  |  |
| mechanical accessories   | Mounting adapter for standard mounting rail (6EP1971-1BA00)   |  |  |
| further information internet links   |   |  |  |
| internet link  |   |  |  |
| • to website: Industry Mall  | https://mall.industry.siemens.com   |  |  |
| • to web page: selection aid TIA Selection Tool  | https://www.siemens.com/tstcloud  |  |  |
| • to website: CAx-Download-Manager   | https://siemens.com/cax   |  |  |
| • 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 undergo continuous development to make them more secure. Siemens strongly 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            |
|                          |          |         | •              |
| UK Ce Confirmation       | <u> </u> | COC     | kà.            |
|                          |          | LUL     |                |
|                          | UL       |         | 104.00         |
|                          |          |         |                |
|                          |          |         |                |

 
 Test Certificates
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 Railway
 Environment

 Type Test Certificates/Test Report
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 Confirmation
 Special Test Certificate
 Environmental Confirmations

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