## **Data sheet**



SIMATIC PS307/1AC/24VDC/5A/Outdoor

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

hase AC by means of selector switch on the device  V/230 V 132 V 264 V  × Vin rated, 1.3 ms ns in = 93/187 V 60 Hz 63 Hz  A A A A A A A A A A A A A A A A A A	
V/230 V 132 V 264 V  × Vin rated, 1.3 ms ns in = 93/187 V 50 Hz 63 Hz  A A A A A A A A A A	
132 V 264 V  × Vin rated, 1.3 ms ns in = 93/187 V 60 Hz 63 Hz  A A A A A A A A A A A A A A A A A A	
264 V  × Vin rated, 1.3 ms  ns  in = 93/187 V  60 Hz  63 Hz  A  A  A  A  A  A  A  A  A  A  A  A  A	
× Vin rated, 1.3 ms ns in = 93/187 V 60 Hz 63 Hz A A A A A A A A A A A A A A A A A A A	
in = 93/187 V 50 Hz 63 Hz A A A A A A A	
in = 93/187 V 50 Hz 63 Hz A A A A A A A	
in = 93/187 V 60 Hz 63 Hz A A A A A A A A A	
S0 Hz 63 Hz A A A S A A <sup>2</sup> ·s	
63 Hz A A A S S A <sup>2</sup> ·s	
A A A S A <sup>2</sup> ·s	
A s A <sup>2</sup> ·s	
A s A <sup>2</sup> ·s	
s A <sup>2</sup> ·s	
s A <sup>2.</sup> s	
A <sup>2</sup> ·s	
A <sup>2</sup> ·s	
15 A/250 V (not accessible)	
ommended miniature circuit breaker: from 10 A characteristic C or from 6 A racteristic D	
trolled, isolated DC voltage	
24 V	
/	
-	
%	
%	
mV	
nV	
mV	
nV	
)	

response delicy maximum  votage increase time of the output votage  • typical  • traded value  • raded value  •	behavior of the output voltage when switching on	No overshoot of Vout (soft start)
voltage increase time of the output voltage * lypical output current * lated value * stated value * cated drange * output current * lated value * output current * lated value * output current * lated value * lated value * output current * output during operation lypical * output current * output current * output current * output current * output voltage * of equipment * output voltage * of rated value of the output voltage with rapid * output voltage * o		
■ splead udupt current  ■ rated value ■ stated range ■ Ju. 5 A ■ Sa Supplied active power typical  \$120 W  short-term overload current ■ on short-circuiting during the start-up typical ■ ot short-circuit during operation typical ■ on short-circuiting during the start-up typical ■ on short-circuiting during the start-up ■ on short-circuit during operation  Intelligency in percent  Refilency in percent  Refilency in percent  Refilency outrel procession of the output voltage with rapid fucutation of the put voltage by vt. 15% typical  Resiductation of the put voltage by vt. 15% typical  Resiductation of the put voltage by vt. 15% typical  Resiductation of the put voltage by vt. 15% typical  Resiductation of the put voltage by vt. 15% typical  Resiductation of the put voltage by vt. 15% typical  Resiductation of the put voltage by vt. 15% typical  Resiductation of the put voltage by vt. 15% typical  Resiductation of the output voltage of the output voltage voltage output put output voltage voltage output put output youtput put the circuit proof  Residuction of the output voltage voltage output voltage v		35
output current  * rated value  * rated range  * on short-driven extend current  * on short-driven incread current  * on short-driven increases  * on short-driven		400
* rated value     * rated range     * rated range     * augurited active power typical     * supplied active power typical     * short-term overhead current     * on short-circulting during presention typical     * at short-diruting during operation typical     * at short-circulting during operation typical     * on short-circulting during operation typical     * on short-circulting operation typical     * on short-circulting operation typical     * on short-circulting operation     * on short-circult operation     * on short-circulting protection     * on short-circulting operation     * on sh	7.	100 ms
euplied active power typical supplied active power typical or a short-circulating during the start-up typical or and short circulating during the start-up typical or and short-circulating during the start-up typical or and short-circulating during the start-up to short or an another circulating during the start-up to short or an another circulating during the start-up to short or an another circulating during the start-up to short or an another circulating during the start-up to short or an another circulating during the start-up to short or an another circulating during the start-up to short or an another circulating during the start-up to short or an another circulating during the start or an another circulation or an	·	F.A.
supplied active power typical short-term overtoad current on short-circulting during the start-up typical at short circulting during operation typical at short-circulting during operation typical at short-circulting during operation on short-circulting operation and short-circulting operation and short-circulting operation origing of equalment short-circulting operation No elficiency in percent between the current typical clored-loop control restable control precision of the output voltage with rapid function of the input voltage by 1-5% bypical relative control precision of the output voltage load step of restable control precision of the output voltage load step of sessive load 500 r050/50% bypical aload step 50 to 100% bypical olad step 100 to 50% bypical olad step 50 to 100% bypical o		
short-decal during operation typical  of a short-decal during operation  of a short-decal during operation of the output voltage with rapid successing of a short-decal operation of the short-decal operation of a short-decal during operation  of a short-decal during operation of the output objects of a short-decal operation of a short-decal operation operation of the overvoltage protection  of a short-decal during operation of a short-decal operation ope	• rated range	0 5 A
e on short-circulting during peration typical at short-circult during operation typical duration of overloading capability for excess current on short-circulting during the start-up at short-circulting during peration birdiging of equipment So one solution of overloading capability for excess current on short-circulting operation No difficiency efficiency effic	supplied active power typical	120 W
a at short-circuit during operation typical of white-circuit during poperation at short-circuit during operation at short-circuit during operation bridging of equipment No  Efficiency  at at short-circuit during operation No  Efficiency  at a trained output voitage protection output typical at a trained output voitage for rated value of the output ournet typical output look special fluctuation of the input voitage for rated value of the output ournet typical output look special fluctuation of the input voitage by +1-15% typical relative control procision of the output voitage with rapid fluctuation of the input voitage by +1-15% typical relative control procision of the output voitage and step of resistive load 50100509 k typical setting time  includes special to 100 50% k typical setting time  includes special to 10 50% k typical setting time  includes special to 10 50% k typical setting time  includes special typical setting time  includes special typical setting time  includes special typical design of the overvoitage protection Additional control loop, shutdown at approx. 30 V, automatic restart response value current limitation fresponse value cur		
duration of overloading capability for excess current  on short-circulting during the start-up  of short-circulting during persiston  bridging of equipment  filterinery  efficiency  efficiency  efficiency in percent  power loss [W]  of a rated output vottage for rated value of the output current typical  closed-doop control  relative control precision of the output vottage with rapid fluctuation of the input votlage by 4*- 15% typical  relative control precision of the output vottage load step of resistive load 5010050 % typical  setting time  olad step 50 to 100% typical  olad step 100 to 50% typical  olad step 100 to 50% typical  or maximum  protection and monitoring  design of short-circuit protection  property of the output short-circuit proof  design of short-circuit protection  property of the output short-circuit proof  design of short-circuit protection  enduring short circuit current RMS value  maximum  spanianic isolation between input and output  galvanic isolation  operating resource protection class  leakage current  enaximum  oyocia  of maximum  oyocia  for emitted interference  of maximum  oyocia  of or lefterence immunity  Endough Standard  for emitted interference  of maximum  vycia  standards  of or lefterence immunity  Endough Standard  File E143289, CSA (CSA C22 2 No. 142)  Yes  UL-listed (UL-508), File E143289, CSA (CSA C22 2 No. 142)  Yes  UL-listed (UL-508), File E143289, CSA (CSA C22 2 No. 142)  Yes  UL-listed (UL-508), File E143289, CSA (CSA C22 2 No. 142)  Yes  UL-listed (UL-508), File E143289, CSA (	<ul> <li>on short-circuiting during the start-up typical</li> </ul>	20 A
or at short-circuit during operation     at a short-circuit during operation     bridging of equipment     No  difficiency  difficiency in percent     power loss [W]     at a rade output, voltage for rated value of the output     arrade output, voltage for rated value of the output     arrade output, voltage for rated value of the output     arrade output, voltage for rated value of the output     arrade output, voltage for rated value of the output     arrade output, voltage operation     relative control procision of the output voltage with rapid     fluctuation of the input voltage by 4* 15% typical     relative control procision of the output voltage load step of     resistive load 50/100/90 typical     setting time     ioad step 50 to 100% typical     ioad step 50 to 100%	at short-circuit during operation typical	20 A
at a short-circuit during operation bridging of equipment  officiency  efficiency  efficiency in percent	duration of overloading capability for excess current	
bridging of equipment  officiency  efficiency in percent  at a trade output voltage for rated value of the output current hybrid  closed-stoop control  relative control precision of the output voltage with rapid fucutation of the input voltage by 4r. 15% typical  relative control precision of the output voltage load step of resistive load 50/100000 % typical  setting time  a load step 50 to 100% typical  cload step 60 to 1000 typi	<ul> <li>on short-circuiting during the start-up</li> </ul>	180 ms
efficiency in percent power loss [W] at rated output voltage for rated value of the output current typical  classed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by rf. 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time load step 50 to 100% typical load step 100 to 50% typical load typica		80 ms
efficiency in percent power loss [W]	bridging of equipment	No
power loss [W]  a trated output voltage for rated value of the output current typical  closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by 4: 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time  load step 50 to 100% typical  load step 100 to 50% typical  voltage by 4: 15% typical  setting time  maximum  string protection and monitoring  design of the overvoltage protection  property of the output short-circuit proof  design of short-circuit protection  property of the output short-circuit protection  property of the output short-circuit protection  property of the output short-circuit protection  setting time  maximum  short circuit current RMS value  maximum  short circuit current RMS value  maximum  short circuit current control to the strength of the strength output and output  galvanic isolation between input and output  galvanic isolation between input and output  galvanic isolation short circuit protection  maximum  short circuit protection class  leakage current  maximum  shipical  spical  s	efficiency	
a tar are doubput voltage for rated value of the output current typical closed-Bop control relative control precision of the output voltage with rapid fluctuation of the input voltage by 4-1 f5% typical relative control precision of the output voltage load step of resistive load \$100,050 % typical setting time  load step 50 to 100% bypical  load step 50 to 100% bypical  load step 50 to 100% bypical  load step 100 to 50% typical  load step 100 to 50% typical  load step 100 to 50% typical  load step 50 to 100% bypical  load step 50 to 100% b	efficiency in percent	84 %
current typical  closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +1 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time    load step 50 to 100% typical   load step 100 to 50% typical   load step 50 to 100% typical   load step 100 to 50% typical step 100 typical   load step 100 to 50% typical   load step 100 typical   load		
relative control precision of the output voltage with rapid fluctuation of the input voltage by +-1.5% which is relative control precision of the unput voltage load step of resistive load 50/100/50 % bytical setting time  • load step 50 to 100% typical • load step 100 to 50% typical • load step 100 to 50% typical • load step 100 to 50% typical • maximum  • maximum  • maximum  protection and monitoring  design of the overvoltage protection Additional control loop, shutdown at approx. 30 V, automatic restart  property of the output short-circuit proof  design of short-circuit protection  property of the output short-circuit proof  design of short-circuit protection  property of the output short-circuit proof  design of short-circuit protection  property of the output short-circuit protection  property of the out		23 W
fluctuation of the input voltage by \$\psi\$- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time    load step 50 to 100% typical   0.2 ms	closed-loop control	
resistive load 50/100/50 % typical setting time load step 50 to 100% typical load typical step 50 to 100% typical load typical step 50 to 100% typical load typical load step 50 to 100% typical load typical load typical		0.3 %
load step 50 to 100% typical   0.2 ms     load step 100 to 50% typical   0.2 ms     load step 100 to 50% typical   0.2 ms     emainium   5 ms     protection and monitoring     design of the overvoltage protection   Additional control loop, shutdown at approx. 30 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     emainium   5 A     safety     galvanic isolation between input and output   Yes     galvanic oloticul closes   Class		3 %
e load step 100 to 50% typical setting time  ● maximum  5 ms  protection and monitoring  design of the overvoltage protection Additional control loop, shutdown at approx. 30 V, automatic restart property of the output short-circuit proof Yes design of short-circuit protection response value current limitation enduring short circuit current RMS value ● maximum  5 A  safety  galvanic isolation between input and output Yes galvanic isolation between input and output galvanic isolation operating resource protection class Class I leakage current ● maximum ● (Nice)  ● (Nice)  **EMC	setting time	
setting time  • maximum  mortection and monitoring  design of the overvoltage protection property of the output short-circuit	<ul><li>load step 50 to 100% typical</li></ul>	0.2 ms
maximum  brotection and monitoring  design of the overvoltage protection  property of the output short-circuit proof  design of short-circuit protection  property of the output short-circuit proof  design of short-circuit protection  Electronic shutdown, automatic restart  response value current limitation  • maximum  5 A  safety  galvanic isolation between input and output  galvanic isolation between input and output  yes  galvanic isolation between input and output  operating resource protection class  Class I  leakage current  • maximum  • typical  operating resource protection class  I leakage current  • maximum  • typical  on 3.5 mA  • typical  of or emitted interference  • for mains harmonics limitation  • for interference immunity  EN 61000-8-2  standards, specifications, approvals  certificate of suitability  • CE marking  ∪ Lapproval  ∪ Lapproval  • EAC approval  • REC Class 2  No  type of certification  • CB-certificate  No	load step 100 to 50% typical	0.2 ms
design of the overvoltage protection  design of the overvoltage protection  property of the output short-circuit proof  design of short-circuit protection  response value current limitation  • maximum  • maximum  5 A  safety  galvanic isolation between input and output  yes  galvanic isolation  operating resource protection class  leakage current  • maximum  • maximum  3.5 mA  • typical  oprotection class IP  EMC  standard  • for emitted interference  • for mains harmonics limitation  • for interference immunity  • CE marking  • CE marking  • CE marking  • Ut approval  • CSA approval  • EAC approval  • NEC Class 2  type of certification  • CB-certificate  • CB-certificate   Additional control loop, shutdown at approx. 30 V, automatic restart  Pees design of the output short-circuit proof  Flectoric shutdown, automatic restart  Pees design of short-circuit proof.  Safety extra low output voltage Vout according to EN 60950-1 and EN 50178, creepage distances and clearances > 5 mm  Class I  Pees design of the output voltage Vout according to EN 60950-1 and EN 50178, creepage distances and clearances > 5 mm  Class I  Pees design of the output voltage Vout according to EN 60950-1 and EN 50178, creepage distances and clearances > 5 mm  Class I  Pees design of the output voltage Vout according to EN 60950-1 and EN 50178, creepage distances and clearances > 5 mm  Class I  Pees design of the output voltage Vout according to EN 60950-1 and EN 50178, creepage distances and clearances > 5 mm  Class I  Pees design of the output voltage Vout according to EN 60950-1 and EN 50178, creepage distances and clearances > 5 mm  Class I  Pees design of the output voltage Vout according to EN 60950-1 and EN 50178, creepage distances and clearances > 5 mm  Class I  Pees design of the output voltage Vout according to EN 60950-1 and EN 50178, creepage distances and clearances > 5 mm  Class I  Pees de	setting time	
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • maximum 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 • for interference immunity • CE marking • CE marking • UL-Listed (UL 508), File E143289; CSA (CSA C22.2 No. 142) • CSA approval • CB-certificate • No  type of certificate  versificate or  versification • CSB-certificate • No	maximum	5 ms
property of the output short-circuit proof design of short-circuit protection response value current limitation • maximum  5 A  safety galvanic isolation between input and output yes aleakage current • maximum  3.5 mA • typical • maximum  3.5 mA • typical  of or emitted interference • for mains harmonics limitation • for or interference immunity  standards, specifications, approvals  certificate of suitability • CE marking • UL approval • NEC Class 2  type of certification  verbifications  Ves  tandard • CB-certificate  OR Approval • NEC Class 2  type of certification • CB-certificate  No	protection and monitoring	<u>_</u>
design of short-circuit protection response value current limitation enduring short circuit current RMS value • maximum  safety galvanic isolation between input and output  yes galvanic isolation operating resource protection class  leakage current • maximum  3.5 mA • typical  of or emitted interference • for emitted interference • for mains harmonics limitation • for interference immunity • CE marking • UL approval • CE marking • CSA approval • NEC Class 2  type of certification • CB-certification • CB-certificate  versure safety  standard  vesses  yes  vesses  vesse	design of the overvoltage protection	Additional control loop, shutdown at approx. 30 V, automatic restart
response value current limitation enduring short circuit current RMS value	property of the output short-circuit proof	Yes
enduring short circuit current RMS value  ● maximum  5 A  safety  galvanic isolation between input and output  galvanic isolation  Safety extra low output voltage Vout according to EN 60950-1 and EN 50178, creepage distances and clearances > 5 mm  operating resource protection class  leakage current  ● maximum  ● typical  ● typical  protection class IP  EMC  Standard  ● for emitted interference  ● for mitterference immunity  ● for interference immunity  ■ for interference immunity  standards, specifications, approvals  certificate of suitability  ● CE marking  ● UL approval  ● CSA approval  ● NEC Class 2  No  type of certification  ● CB-certification  ● CB-certificate  No	design of short-circuit protection	Electronic shutdown, automatic restart
maximum 5 A      safety  galvanic isolation between input and output Yes galvanic isolation Safety extra low output voltage Vout according to EN 60950-1 and EN 50178, creepage distances and clearances > 5 mm operating resource protection class    leakage current	response value current limitation	5.5 6.5 A
galvanic isolation between input and output galvanic isolation Safety extra low output voltage Vout according to EN 60950-1 and EN 50178, creepage distances and clearances > 5 mm  operating resource protection class  leakage current	enduring short circuit current RMS value	
galvanic isolation between input and output  galvanic isolation  Safety extra low output voltage Vout according to EN 60950-1 and EN 50178, creepage distances and clearances > 5 mm  operating resource protection class  Class I  leakage current  • maximum  • typical  • typical  protection class IP  IP20  EMC  standard  • for emitted interference  • for mains harmonics limitation  • for interference immunity  EN 61000-6-2  standards, specifications, approvals  certificate of suitability  • CE marking  • UL approval  • CSA approval  • EAC approval  • EAC approval  • No  type of certification  • CB-certification		5 A
galvanic isolation  Safety extra low output voltage Vout according to EN 60950-1 and EN 50178, creepage distances and clearances > 5 mm  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 61000-6-2  standards, specifications, approvals  certificate of suitability  • CE marking  • UL approval  • CSA approval  • CSA approval  • EAC approval  • No  type of certification  • CB-certificate  No	safety	
creepage distances and clearances > 5 mm  operating resource protection class  leakage current	galvanic isolation between input and output	Yes
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  • UL approval  • CSA approval  • EN 55011 Class A  - (an interference immunity  EN 61000-6-2  standards, specifications, approvals  certificate of suitability  • CE marking  • UL approval  • CSA approval  • CSA approval  • EAC approval  • EAC approval  • No  No	galvanic isolation	
<ul> <li>maximum</li> <li>typical</li> <li>protection class IP</li> <li>IP20</li> <li>EMC</li> <li>standard</li> <li>for emitted interference</li> <li>for mains harmonics limitation</li> <li>for interference immunity</li> <li>EN 61000-6-2</li> <li>standards, specifications, approvals</li> <li>certificate of suitability</li> <li>CE marking</li> <li>UL approval</li> <li>CSA approval</li> <li>CSA approval</li> <li>EAC approval</li> <li>NEC Class 2</li> <li>type of certification</li> <li>CB-certificate</li> <li>No</li> </ul>	operating resource protection class	Class I
typical     protection class IP  EMC  standard      • for emitted interference     • for mains harmonics limitation     • for interference immunity     • for interference immunity     • FN 61000-6-2  standards, specifications, approvals  certificate of suitability     • CE marking     • UL approval     • UL approval     • CSA approval     • CSA approval     • EAC approval     • NEC Class 2     • NEC Class 2     type of certificate     • CB-certificate      • No	-	
protection class IP  EMC  standard  • for emitted interference • for mains harmonics limitation • for interference immunity  EN 61000-6-2  standards, specifications, approvals  certificate of suitability • CE marking • UL approval • UL approval • CSA approval • CSA approval • CSA approval • EAC approval • NEC Class 2  type of certificate • CB-certificate  No	• maximum	
standard  • for emitted interference • for mains harmonics limitation • for interference immunity • EN 61000-6-2  standards, specifications, approvals  certificate of suitability • CE marking • UL approval • UL approval • CSA approval • CSA approval • EAC approval • NEC Class 2  type of certification • CB-certificate    EN 55011 Class A  - Ren 61000-6-2  EN 61000-6-2  Standards, specifications, approvals  - Ren 61000-6-2  Standards, specifications, approvals  - Ren 61000-6-2  Standards, specifications, approvals  - Ren 61000-6-2  Standards, specifications - Ren 61000-6-2  Standards, specification immunity - Ren	· · · · · · · · · · · · · · · · · · ·	
standard  • for emitted interference • for mains harmonics limitation • for interference immunity  EN 61000-6-2  standards, specifications, approvals  certificate of suitability • CE marking • UL approval • UL approval • CSA approval • CSA approval • EAC approval • NEC Class 2  type of certification • CB-certificate  EN 55011 Class A  - CB 5011 Class A		IP20
<ul> <li>for emitted interference</li> <li>for mains harmonics limitation</li> <li>for interference immunity</li> <li>EN 61000-6-2</li> <li>standards, specifications, approvals</li> <li>certificate of suitability</li> <li>CE marking</li> <li>UL approval</li> <li>CSA approval</li> <li>CSA approval</li> <li>EAC approval</li> <li>NEC Class 2</li> <li>type of certification</li> <li>CB-certificate</li> <li>No</li> </ul>	EMC	
<ul> <li>for mains harmonics limitation</li> <li>for interference immunity</li> <li>EN 61000-6-2</li> <li>standards, specifications, approvals</li> <li>certificate of suitability</li> <li>CE marking</li> <li>UL approval</li> <li>CSA approval</li> <li>EAC approval</li> <li>NEC Class 2</li> <li>type of certification</li> <li>CB-certificate</li> <li>No</li> </ul>	standard	
<ul> <li>◆ for interference immunity</li> <li>■ Standards, specifications, approvals</li> <li>Certificate of suitability</li> <li>◆ CE marking</li> <li>◆ UL approval</li> <li>◆ CSA approval</li> <li>◆ EAC approval</li> <li>◆ NEC Class 2</li> <li>◆ NEC Class 2</li> <li>◆ CB-certificate</li> <li>No</li> </ul>	• for emitted interference	EN 55011 Class A
standards, specifications, approvals  certificate of suitability	• for mains harmonics limitation	-
certificate of suitability  CE marking  UL approval  CSA approval  EAC approval  NEC Class 2  type of certificate  CB-certificate  Yes  Yes  Yes  Yes  Yes; UL-Listed (UL 508), File E143289; CSA (CSA C22.2 No. 142)  Yes; UL-Listed (UL 508), File E143289, CSA (CSA C22.2 No. 142)  Yes  No  No	for interference immunity	EN 61000-6-2
<ul> <li>CE marking</li> <li>UL approval</li> <li>CSA approval</li> <li>EAC approval</li> <li>NEC Class 2</li> <li>CB-certification</li> <li>CB-certificate</li> </ul> Yes <ul> <li>Yes</li> <li>Yes</li> <li>UL-Listed (UL 508), File E143289, CSA (CSA C22.2 No. 142)</li> <li>Yes</li> <li>No</li> </ul> No <ul> <li>No</li> </ul>	standards, specifications, approvals	
<ul> <li>UL approval</li> <li>CSA approval</li> <li>EAC approval</li> <li>NEC Class 2</li> <li>CB-certification</li> <li>CB-certificate</li> </ul> Yes; UL-Listed (UL 508), File E143289; CSA (CSA C22.2 No. 142) Yes No No No	certificate of suitability	
<ul> <li>CSA approval</li> <li>EAC approval</li> <li>NEC Class 2</li> <li>type of certification</li> <li>CB-certificate</li> <li>No</li> </ul>	CE marking	Yes
<ul> <li>EAC approval</li> <li>NEC Class 2</li> <li>No</li> <li>type of certification</li> <li>CB-certificate</li> <li>No</li> </ul>	UL approval	Yes; UL-Listed (UL 508), File E143289; CSA (CSA C22.2 No. 142)
NEC Class 2  type of certification     CB-certificate     No	CSA approval	Yes; UL-Listed (UL 508), File E143289, CSA (CSA C22.2 No. 142)
type of certification  • CB-certificate  No	EAC approval	Yes
CB-certificate     No	NEC Class 2	No
	type of certification	
MTBF at 40 °C 2 231 610 h	00 15	N.
	CB-certificate	No

standards, specifications, approvals hazardous environments	
certificate of suitability	
• IECEx	No
• ATEX	No
ULhazloc approval	No
• cCSAus, Class 1, Division 2	No
• FM registration	No
standards, specifications, approvals marine classification	
shipbuilding approval	No
Marine classification association	140
	No
American Bureau of Shipping Europe Ltd. (ABS)      French marine elegation against (D)()	No No
French marine classification society (BV)  Pat Name Verifica (BN)()	No No
Det Norske Veritas (DNV)	No
Lloyds Register of Shipping (LRS)	No
standards, specifications, approvals Environmental Product Dec	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	640.4 kg
during manufacturing	10.8 kg
during operation	629.1 kg
after end of life	0.39 kg
ambient conditions	
ambient temperature	
during operation	-25 +70 °C; with natural convection
during transport	-40 +85 °C
during storage	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K5, transient condensation permitted
connection method	,
type of electrical connection	screw terminal
• at input	L, N, PE: 1 screw terminal each for 0.5 2.5 mm² 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	
	00 :: 405 :: 400 ::::
width × height × depth of the enclosure	80 × 125 × 120 mm
installation width × mounting height	80 mm × 225 mm
required spacing	
<ul> <li>top</li> </ul>	50 mm
• bottom	50 mm
• left	0 mm
right	0 mm
fastening method	Can be mounted onto S7 rail
DIN-rail mounting	No
S7 rail mounting	Yes
wall mounting	No
housing can be lined up	Yes
net weight	0.57 kg
accessories	
mechanical accessories	Mounting adapter for standard mounting rail (6ES7390-6BA00-0AA0)
further information internet links	
internet link	
	https://mall.industry.siemens.com
• to website: Industry Mall	https://mall.industry.siemens.com https://www.siemens.com/tstcloud
<ul><li>to website: Industry Mall</li><li>to web page: selection aid TIA Selection Tool</li></ul>	https://www.siemens.com/tstcloud
<ul> <li>to website: Industry Mall</li> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: CAx-Download-Manager</li> </ul>	https://www.siemens.com/tstcloud https://siemens.com/cax
<ul> <li>to website: Industry Mall</li> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: CAx-Download-Manager</li> <li>to website: Industry Online Support</li> </ul>	https://www.siemens.com/tstcloud
<ul> <li>to website: Industry Mall</li> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: CAx-Download-Manager</li> <li>to website: Industry Online Support</li> </ul> additional information	https://www.siemens.com/tstcloud https://siemens.com/cax https://support.industry.siemens.com
<ul> <li>to website: Industry Mall</li> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: CAx-Download-Manager</li> <li>to website: Industry Online Support</li> </ul>	https://www.siemens.com/tstcloud https://siemens.com/cax https://support.industry.siemens.com  Specifications at rated input voltage and ambient temperature +25 °C (unless
to website: Industry Mall     to web page: selection aid TIA Selection Tool     to website: CAx-Download-Manager     to website: Industry Online Support     additional information     other information	https://www.siemens.com/tstcloud https://siemens.com/cax https://support.industry.siemens.com
to website: Industry Mall     to web page: selection aid TIA Selection Tool     to website: CAx-Download-Manager     to website: Industry Online Support     additional information     other information  security information	https://www.siemens.com/tstcloud https://siemens.com/cax https://support.industry.siemens.com  Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
to website: Industry Mall     to web page: selection aid TIA Selection Tool     to website: CAx-Download-Manager     to website: Industry Online Support     additional information     other information	https://www.siemens.com/tstcloud https://siemens.com/cax https://support.industry.siemens.com  Specifications at rated input voltage and ambient temperature +25 °C (unless

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)

	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** 

Maritime application

Manufacturer Declara-<u>tion</u>

**Declaration of Con-**









Maritime application

Environment



NK / Nippon Kaiji Ky-<u>okai</u>





last modified:

4/4/2025

