SIEMENS

Data sheet 6EP1437-3BA00

SITOP modular/3AC/DC24V/40A

SITOP modular 40 A stabilized power supply input: 400-500 V 3 AC output: 24 V DC/40 A



type of the power supply network 3-phase AC supply voltage at AC 400 V • minimum rated value 500 V • full-scale value 550 V • full-scale value 550 V supply voltage at AC Starting from Vin > 340 V wide range input Yes overvoltage overdoad capability 2.3 × Vin rated, 1.3 ms buffering time for rated value of the output current in the event of power failure minimum 6 ms operating condition of the mains buffering at Vin = 400 V line frequency 5060 Hz line frequency 47 63 Hz input current 2.2 A val rated input voltage 400 V 2.2 A current limitation of inrush current at 25 °C maximum 70 A 12t value maximum 2.8 A*s fuse protection type in the feeder Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) output Voltage curve at output Controlled, isolated DC voltage output voltage at DC rated value 24 V output voltage adjustable Yes; via potentiometer	input		
minimum rated value maximum rated value maximum rated value initial value stuli-scale value supply voltage at AC starting from Vin > 340 V wide range input vervoltage 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 operating condition of the mains buffering line frequency 5060 Hz line frequency fine frequency fine frequency 47 63 Hz input current at rated input voltage 400 V 2,2 A current limitation of inrush current at 25 °C maximum 2,3 A²-8 fuse protection type in the feeder fuse protection type in the feeder voltage curve at output output voltage at output 1 at DC rated value voltput voltage at output voltage at output 1 at DC rated value voltput voltage at output voltage at output 1 at DC rated value voltput voltage at output voltage and suffering in the voltage and suffering in the voltage at output voltage and suffering in the voltage an	type of the power supply network	3-phase AC	
• maximum rated value • initial value • initial value • full-scale value supply voltage at AC supply voltage at AC supply voltage overload capability buffering time for rated value of the output current in the event of pover failure minimum operating condition of the mains buffering line frequency line frequency ine frequency ine frequency ine frequency ine frequency • at rated input voltage 400 V current limitation of incush current at 25 °C maximum 70 A 212 value maximum fuse protection type in the feeder output voltage at DC rated value • at output voltage at DC rated value output voltage • at output ovltage • at output ovltage • on slow fluctuation of the voltage • on slow fluctuation of put voltage • maximum fuse proferion normal operation fuse proferion of flow output voltage • maximum fuse proferion normal operation fuse proferion of flow output voltage • maximum fuse proferion of flow output voltage peak • maximum fuse proferion of flow output voltage of signal at output	supply voltage at AC		
• initial value • full-scale value 550 V supply voltage at AC wide range input Ves overvoltage overload capability buffering time for rated value of the output current in the event of power failure minimum operating condition of the mains buffering line frequency 10	minimum rated value	400 V	
e full-scale value supply voltage at AC starting from Vin > 340 V wide range input ves 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 operating condition of the mains buffering at Vin = 400 V sine frequency line frequency ine frequency ine frequency at rated input voltage 400 V current limitation of inrush current at 25 °C maximum 70 A 2.2 A current limitation of inrush current at 25 °C maximum 70 A 2.2 8 A² s fuse protection type none fuse protection type in the feeder or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) output voltage at DC rated value output voltage at DC rated value 24 V output voltage • at output 1 at DC rated value 24 V output voltage • at output 1 at DC rated value 24 V output voltage • at output 1 outpage • at output 1 outpage • at output 1 outpage • at output voltage • on slow fluctuation of input voltage • on slow fluctuation of the output voltage • on slow fluctuation of the output voltage • on slow fluctuation of ohm loading 0.2 % residual ripple • maximum 100 mV voltage peak • maximum display version for normal operation graph at output voltage signal at output volta	maximum rated value	500 V	
supply voltage at AC wide range input ves overvoltage overload capability buffering time for rated value of the output current in the event of power failure minimum operating condition of the mains buffering at Vin = 400 V line frequency line frequency so 50/60 Hz line frequency input current • at rated input voltage 400 V current limitation of inrush current at 25 °C maximum 2.8 A²-s current limitation of inrush current at 25 °C maximum 2.8 A²-s fuse protection type in the feeder routput voltage curve at output cutput voltage at Oc rated value output voltage at Oc rated value output voltage • at output 1 at DC rated value 24 V output voltage adjustable voltput voltage • at output 1 at DC rated value overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of input voltage • on slow fluctuation of input voltage • maximum 100 mV voltage peak • maximum 100 mV display version for normal operation 4 creen LED for 24 V OK type of signal at output voltage pasing a standard of the country of signal at output voltage pasing and so signaling module (6EP1961-3BA10)	• initial value	320 V	
wide range input overvoltage overload capability buffering time for rated value of the output current in the event of power failure minimum operating condition of the mains buffering line frequency line frequency 30:60 Hz line frequency 4763 Hz line frequency 4763 Hz line frequency 4763 Hz line frequency 100 A t rated input voltage 400 V 2.2 A current limitation of inrush current at 25 °C maximum 2.8 A²-8 1use protection type none fuse protection type in the feeder Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) voltage curve at output Voltage adjustable at output voltage at output voltage at output voltage at output voltage 24 V output voltage adjustable 42 V Ves; via potentiometer adjustable output voltage 24 V 28.8 V; max. 960 W relative overall tolerance of the voltage 25 version for hormol of hin loading 26 version for hormal operation 27 voltage peak 28 maximum 29 maximum 40 more 40	• full-scale value	550 V	
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input current • at rated input voltage 400 V current limitation of inrush current at 25 °C maximum 70 A 12t value maximum 2.8 A²-s fuse protection type none fuse protection type in the feeder Controlled, isolated DC voltage output voltage curve at output output voltage at DC rated value output voltage • at output 1 at DC rated value output voltage adjustable versit voltage adjustable versit voltage 24 V output voltage adjustable adjustable output voltage 24 28.8 V; max. 960 W relative overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum 100 mV voltage peak • maximum 200 mV display version for normal operation Green LED for 24 V OK type of signal at output via signaling module (6EP1961-3BA10)	line frequency	50/60 Hz	
• at rated input voltage 400 V current limitation of inrush current at 25 °C maximum 70 A 12t value maximum 2.8 A²-s fuse protection type none fuse protection type in the feeder Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) output voltage curve at output output voltage at DC rated value • at output 1 at DC rated value • at output 1 at DC rated value output voltage adjustable adjustable output voltage relative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum voltage peak • maximum display version for normal operation type of signal at output via signaling module (6EP1961-3BA10)	line frequency	47 63 Hz	
current limitation of inrush current at 25 °C maximum 12t value maximum 2.8 A²-s fuse protection type fuse protection type in the feeder cercipitation of inrush current at 25 °C maximum 2.8 A²-s none Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) output voltage curve at output coutput voltage at DC rated value output voltage at output 1 at DC rated value 24 V output voltage adjustable yes; via potentiometer adjustable output voltage 24 28.8 V; max. 960 W relative overall tolerance of the voltage a) s% relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading 0.2 % residual ripple maximum 100 mV voltage peak maximum display version for normal operation Green LED for 24 V OK type of signal at output via signaling module (6EP1961-3BA10)	input current		
12t value maximum 2.8 A²-s fuse protection type none fuse protection type in the feeder Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) output	 at rated input voltage 400 V 	2.2 A	
fuse protection type in the feeder Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) 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 Yes; via potentiometer adjustable output voltage 24 28.8 V; max. 960 W relative overall tolerance of the voltage 0.1 % • on slow fluctuation of input voltage 0.2 % residual ripple • maximum 100 mV voltage peak • maximum 200 mV display version for normal operation Green LED for 24 V OK type of signal at output voltage (GEP1961-3BA10)	current limitation of inrush current at 25 °C maximum	70 A	
Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) 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 Yes; via potentiometer adjustable output voltage 24 28.8 V; max. 960 W relative overall tolerance of the voltage 0.1 % • on slow fluctuation of input voltage 0.2 % residual ripple • maximum 100 mV voltage peak • maximum 200 mV display version for normal operation Green LED for 24 V OK type of signal at output voltage in the feeder or circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) Controlled, isolated DC voltage 24 V output voltage DC voltage 24 V output voltage A) or 3RV2711-1DD10 (UL 489) 24 V output voltage adjustable DC voltage 24 V output voltage adjustable Av V 3 %	12t value maximum	2.8 A ² ·s	
or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) output voltage curve at output output voltage at DC rated value output voltage • at output 1 at DC rated value output voltage adjustable ves; via potentiometer adjustable output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) Controlled, isolated DC voltage 24 V 24 V output voltage 24 V output voltage adjustable Yes; via potentiometer 24 28.8 V; max. 960 W relative overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading 100 mV voltage peak • maximum display version for normal operation Green LED for 24 V OK type of signal at output via signaling module (6EP1961-3BA10)	fuse protection type	none	
voltage curve at output output voltage at DC rated value output voltage • at output 1 at DC rated value 24 V output voltage • at output 1 at DC rated value 24 V output voltage adjustable yes; via potentiometer adjustable output voltage 24 28.8 V; max. 960 W relative overall tolerance of the voltage 3 % relative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading 0.2 % residual ripple • maximum 100 mV voltage peak • maximum 200 mV display version for normal operation type of signal at output via signaling module (6EP1961-3BA10)	fuse protection type in the feeder		
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 at output 1 at DC rated value 24 V output voltage adjustable adjustable output voltage 24 28.8 V; max. 960 W relative overall tolerance of the voltage 3 % relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading 0.2 % residual ripple maximum voltage peak maximum display version for normal operation type of signal at output 24 28.8 V; max. 960 W 3 % 0.1 % 0.2 % 0.1 % 0.2 % 0.2 % Feed to the voltage of the	output voltage at DC rated value	24 V	
output voltage adjustable adjustable output voltage 24 28.8 V; max. 960 W relative overall tolerance of the voltage relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum 100 mV voltage peak maximum 200 mV display version for normal operation Green LED for 24 V OK type of signal at output	output voltage		
adjustable output voltage relative overall tolerance of the voltage relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum 100 mV voltage peak maximum 200 mV display version for normal operation type of signal at output voltage pade via signaling module (6EP1961-3BA10)	at output 1 at DC rated value	24 V	
adjustable output voltage relative overall tolerance of the voltage relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum 100 mV voltage peak maximum 200 mV display version for normal operation type of signal at output voltage pade via signaling module (6EP1961-3BA10)	output voltage adjustable	Yes: via potentiometer	
relative overall tolerance of the voltage relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading on slow fluctuation of ohm loading residual ripple maximum on maximu			
relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum 100 mV voltage peak maximum 200 mV display version for normal operation type of signal at output voltage signal at output via signaling module (6EP1961-3BA10)			
 on slow fluctuation of input voltage on slow fluctuation of ohm loading 0.2 % residual ripple maximum voltage peak maximum a maximum b maximum c maximum display version for normal operation 	<u> </u>		
on slow fluctuation of ohm loading residual ripple maximum 100 mV voltage peak maximum 200 mV display version for normal operation Green LED for 24 V OK type of signal at output via signaling module (6EP1961-3BA10)	· · · · · · · · · · · · · · · · · · ·	0.1 %	
residual ripple • maximum voltage peak • maximum 200 mV display version for normal operation type of signal at output certain a signaling module (6EP1961-3BA10)	on slow fluctuation of ohm loading	0.2 %	
● maximum voltage peak ● maximum 200 mV display version for normal operation type of signal at output 100 mV 200 mV Green LED for 24 V OK via signaling module (6EP1961-3BA10)			
● maximum display version for normal operation display version for normal operation Green LED for 24 V OK type of signal at output via signaling module (6EP1961-3BA10)	• •	100 mV	
● maximum display version for normal operation display version for normal operation Green LED for 24 V OK type of signal at output via signaling module (6EP1961-3BA10)	voltage peak		
type of signal at output via signaling module (6EP1961-3BA10)		200 mV	
type of signal at output via signaling module (6EP1961-3BA10)	display version for normal operation	Green LED for 24 V OK	
	···	via signaling module (6EP1961-3BA10)	

response delay maximum	2.5 s	
voltage increase time of the output voltage		
• maximum	500 ms	
output current		
rated value	40 A	
rated range	0 40 A; +60 +70 °C: Derating 2%/K	
supplied active power typical	960 W	
short-term overload current		
at short-circuit during operation typical	120 A	
duration of overloading capability for excess current		
at short-circuit during operation	25 ms	
constant overload current		
on short-circuiting during the start-up typical	46 A	
bridging of equipment	Yes; switchable characteristic	
number of parallel-switched equipment resources for increasing	2	
the power	2	
efficiency		
efficiency in percent	90 %	
power loss [W]		
at rated output voltage for rated value of the output	106 W	
current typical		
closed-loop control		
relative control precision of the output voltage with rapid	1 %	
fluctuation of the input voltage by +/- 15% typical		
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	2 %	
setting time		
load step 50 to 100% typical	4 ms	
load step 100 to 50% typical	4 ms	
setting time		
• maximum	10 ms	
protection and monitoring		
design of the overvoltage protection	< 35 V	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Alternatively, constant current characteristic approx. 46 A or latching shutdown	
	46 A	
typical		
typical enduring short circuit current RMS value		
enduring short circuit current RMS value	46 A	
enduring short circuit current RMS value • typical	46 A LED vellow for "overload". LED red for "latching shutdown".	
enduring short circuit current RMS value • typical display version for overload and short circuit	46 A LED yellow for "overload", LED red for "latching shutdown"	
enduring short circuit current RMS value • typical display version for overload and short circuit safety	LED yellow for "overload", LED red for "latching shutdown"	
enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output	LED yellow for "overload", LED red for "latching shutdown" Yes	
enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation	LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class	LED yellow for "overload", LED red for "latching shutdown" Yes	
enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I	
enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA	
enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP	LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I	
enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP EMC	LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA	
enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP EMC standard	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA IP20	
enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP EMC standard • for emitted interference	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA IP20 EN 55022 Class B	
enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP EMC standard • for emitted interference • for mains harmonics limitation	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA IP20 EN 55022 Class B EN 61000-3-2	
enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP EMC standard • for emitted interference	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA IP20 EN 55022 Class B	
enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP EMC standard • for emitted interference • for mains harmonics limitation	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA IP20 EN 55022 Class B EN 61000-3-2	
enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA IP20 EN 55022 Class B EN 61000-3-2	
enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA IP20 EN 55022 Class B EN 61000-3-2	
enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2	
enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; UL-Listed (UL 508), File E197259; CSA (CSA C22.2 No. 14, CSA C22.2 No. 107.1) Yes; UL-Listed (UL 508), File E197259, CSA (CSA C22.2 No. 14, CSA C22.2	
enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum 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	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; UL-Listed (UL 508), File E197259; CSA (CSA C22.2 No. 14, CSA C22.2 No. 107.1) Yes; UL-Listed (UL 508), File E197259, CSA (CSA C22.2 No. 14, CSA C22.2 No. 107.1)	
enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum 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 • UKCA marking	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; UL-Listed (UL 508), File E197259; CSA (CSA C22.2 No. 14, CSA C22.2 No. 107.1) Yes; UL-Listed (UL 508), File E197259, CSA (CSA C22.2 No. 14, CSA C22.2 No. 107.1) Yes	
enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum 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 • UKCA marking • EAC approval	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; UL-Listed (UL 508), File E197259; CSA (CSA C22.2 No. 14, CSA C22.2 No. 107.1) Yes; UL-Listed (UL 508), File E197259, CSA (CSA C22.2 No. 14, CSA C22.2 No. 107.1) Yes; UL-Listed (UL 508), File E197259, CSA (CSA C22.2 No. 14, CSA C22.2 No. 107.1) Yes Yes	
enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum 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 • UKCA marking	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; UL-Listed (UL 508), File E197259; CSA (CSA C22.2 No. 14, CSA C22.2 No. 107.1) Yes; UL-Listed (UL 508), File E197259, CSA (CSA C22.2 No. 14, CSA C22.2 No. 107.1) Yes	

• SEMI F47	Yes
type of certification	100
CB-certificate	No
MTBF at 40 °C	485 437 h
standards, specifications, approvals hazardous environments	403 437 11
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	
American Bureau of Shipping Europe Ltd. (ABS)	No
French marine classification society (BV)	No
Det Norske Veritas (DNV)	No
Lloyds Register of Shipping (LRS)	No
standards, specifications, approvals Environmental Product Dec	claration
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	3 368.7 kg
during manufacturing	50.4 kg
 during operation 	3 316.8 kg
after end of life	0.72 kg
ambient conditions	
ambient temperature	
 during operation 	0 70; with natural convection
during transport	-40 +85
during storage	-40 +85
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
<u> </u>	
connection method	
<u> </u>	screw terminal
connection method	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded
connection method type of electrical connection	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely
type of electrical connection • at input	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm ² single-core/finely stranded
type of electrical connection	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm²
connection method type of electrical connection • at input • at output • for auxiliary contacts	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm²
connection method type of electrical connection • at input • at output • for auxiliary contacts mechanical data	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² -
connection method type of electrical connection	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm
connection method type of electrical connection	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm
connection method type of electrical connection	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 50 mm
connection method type of electrical connection	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 50 mm 0 mm
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connection method type of electrical connection	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x15
type of electrical connection	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes
type of electrical connection	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No
connection method type of electrical connection	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No
type of electrical connection	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 50 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No
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connection method type of electrical connection	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 50 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No
connection method type of electrical connection	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No Yes 3.2 kg
connection method type of electrical connection	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 50 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No Yes 3.2 kg Buffer module, signaling module
connection method type of electrical connection	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No Yes 3.2 kg
connection method type of electrical connection	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 50 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No Yes 3.2 kg Buffer module, signaling module
connection method type of electrical connection	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 50 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No Yes 3.2 kg Buffer module, signaling module https://mall.industry.siemens.com/tstcloud
connection method type of electrical connection	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm²

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)

	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



Manufacturer Declara-

Declaration of Conformity





Miscellaneous

General Product Approval

Environment





last modified:

11/19/2024

