SIEMENS

Data sheet 6EP1437-3BA00

SITOP modular/3AC/24VDC/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 • Initial value 550 V • full-scale value 550 V supply voltage at AC Starting from Vin > 340 V wide range input Yes overvoltage overload capability 2.3 × Vin rated, 1.3 ms buffeing time for rated value of the output current in the event of power failure minimum 6 ms opperating condition of the mains buffering at Vin = 400 V line frequency 5060 Hz line frequency 6 ms input current 7 ms • at rated input voltage 400 V 2.2 A current limitation of inrush current at 25 °C maximum 70 A IZ value maximum 2.8 A *s fuse protection type in the feeder Required: 3-pole connected miniature circuit breaker 10 18 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 adjustable 42 V output voltage adjustable Yes; via potentiometer adjustable curput voltage	nput			
 minimum rated value maximum rated value minital value sinital value full-scale value full-scale value full-scale value supply voltage at AC starting from Vin > 340 V wide range input 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 line frequency forguency at Vin = 400 V line frequency at rated input voltage 400 V 2.2 A line trimitation of inrush current at 25 °C maximum 2.3 A²-8 fuse protection type fuse protection type fuse protection type fuse protection type in the feeder cor circuit breaker 3RV2011-1DA10 (setting 3.A) or 3RV2711-1DD10 (UL 488) voltage curve at output output voltage at DC rated value 24 V output voltage adjustable at output 1 at DC rated value 24 V output voltage adjustable at output voltage adjustable at output voltage at output volt	type of the power supply network	3-phase AC		
• maximum rated value 500 V • initial value 320 V • full-scale value 550 V supply voltage at AC Starting from Vin > 340 V wide range input Yes 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 6 ms operating condition of the mains buffering at Vin = 400 V line frequency 50/60 Hz line frequency 47 63 Hz input current • at rated input voltage 400 V current limitation of inrush current at 25 °C maximum 70 A 12½ 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 3.4) or 3RV2711-1DD10 (UL 489) obstitute Voltage curve at output Controlled, isolated DC voltage output voltage at DC rated value 24 V output voltage adjustable Yes; via potentiometer adjustable output voltage 24 28.8 V; max. 960 W relative control precision of the output voltage 0.1 % on slow fluct	supply voltage at AC			
• Initial value 320 V • full-scale value 550 V supply voltage at AC Statring from Vin > 340 V wide range input Yes overvoltage overload capability 2.3 × Vin rated, 1.3 ms buffering time for rated value of the output current in the event of ower failure minimum 6 ms operating condition of the mains buffering at Vin = 400 V line frequency 7606 Hz line frequency 47 63 Hz input current 2.2 A current limitation of inrush current at 25 °C maximum 70 A Izt value maximum 2.8 A²s 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 at DC rated value 24 V output voltage ad Justable Yes; via potentiometer adjustable output voltage 4 x 28.8 V; max. 960 W relative overall tolerance of the voltage 0.1 % • on slow fluctuation of input voltage 0.1 % • on slow fluctuation of input voltage 0.1 %	minimum rated value	400 V		
• full-scale value 550 V supply voltage at AC Starting from Vin > 340 V wide range input Yes 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 6 ms power fallure minimum at Vin = 400 V line frequency 50/60 Hz line frequency input current 4 ms • at rated input voltage 400 V 2.2 A current limitation of inrush current at 25 °C maximum 70 A 12t value maximum 2.8 A² s fuse protection type in the feeder 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 at DC rated value 24 V output voltage 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 0.1 % • on slow fluctuation of input volt	maximum rated value	500 V		
supply voltage at AC Starting from Vin > 340 V wide range input Yes 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 at Vin = 400 V line frequency 50/60 Hz line frequency 50/60 Hz line frequency 47 63 Hz input current 2.2 A external limitation of inrush current at 25 °C maximum 70 A l2t 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) voltput Voltage act ove at output voltput voltage at DC rated value 24 V output voltage adjustable 24 V a dijustable output voltage 4 28.8 V; max. 960 W relative control precision of the output voltage 3 % e on slow fluctuation of input voltage 0.1 % e on slow fluctuation of input voltage 0.1 % e on slow fluctuation of input voltage 100 mV	• initial value	320 V		
wide range input Yes 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 6 ms operating condition of the mains buffering at Vin = 400 V line frequency 50/60 Hz line frequency 47 63 Hz input current 2.2 A • at rated input voltage 400 V 2.2 A current limitation of inrush current at 25 °C maximum 70 A 12t value maximum 2.8 A²-8 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) butput voltage curve at output Controlled, isolated DC voltage voltput voltage 4 V output voltage 4 V output voltage adjustable Yes; via potentiometer adjustable output voltage 24 V on slow fluctuation of input voltage 3 % on slow fluctuation of input voltage 0.1 % on slow fluctuation of input voltage 0.2 % on slow fluc	• full-scale value	550 V		
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 6 ms operating condition of the mains buffering at Vin = 400 V line frequency 50/60 Hz line frequency 47 63 Hz input current • at rated input voltage 400 V 2.2 A current limitation of inrush current at 25 °C maximum 70 A 12t value maximum 2.8 A²-s fuse protection type 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 • at output voltage at DC rated value 24 V output voltage at DC rated value 24 V • at output 1 at DC rated value 24 V output voltage adjustable 24 v • at output 1 outpage 24 v 28.8 V; max. 960 W relative control precision of the output voltage 24 v 28.8 V; max. 960 W relative control precision of the output voltage 0.1 % • on slow fluctuation of input voltage 0.2 % • on slow fluctuation of input voltage 0.2 % •	supply voltage at AC	Starting from Vin > 340 V		
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	wide range input	Yes		
power failure minimum operating condition of the mains buffering line frequency line frequency line frequency line frequency 47 63 Hz linut current • at rated input voltage 400 V 2.2 A current limitation of inrush current at 25 °C maximum 70 A l2t value maximum 2.8 A²-s fuse protection type none fuse protection type in the feeder recircuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) butput voltage curve at output voltage at DC rated value 0 tuput voltage at DC rated value 1 at output 1 at DC rated value 1 at output 1 at DC rated value 2 4 V output voltage adjustable 1 at output voltage 1 at output voltage 2 at 28.8 V; max. 960 W relative control precision of the output voltage 1 on slow fluctuation of input voltage 1 on slow fluctuation of input voltage 2 on slow fluctuation of input voltage 1 on slow fluctuation of ohm loading 2 on slow fluctuation of ohm loading 2 on wimmin 2 on maximum 2 on maximum 2 on wimmin 2 on minimum 2 on wimmin 2 on wimmin 2 on on V display version for normal operation 3 or ean LED for 24 V OK type of signal at output 4 volaging module (6EP1961-3BA10)	overvoltage overload capability	2.3 × Vin rated, 1.3 ms		
line frequency 47 63 Hz line frequency 47 63 Hz input current • at rated input voltage 400 V 2.2 A current limitation of inrush current at 25 °C maximum 70 A l2t value maximum 2.8 A².s fuse protection type none fuse protection type in the feeder circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) butput voltage curve at output Controlled, isolated DC voltage output voltage at DC rated value 24 V output voltage ad DC rated value 24 V output voltage adjustable Yes; via potentiometer adjustable output voltage 24 28.8 V; max. 960 W relative control precision of the output voltage • on slow fluctuation of input 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 Srean LED for 24 V V Kias signaling module (6EP1961-3BA10)		6 ms		
line frequency input current	operating condition of the mains buffering	at Vin = 400 V		
input current at rated input voltage 400 V 2.2 A current limitation of inrush current at 25 °C maximum 70 A 12t value maximum 2.8 A²-s fuse protection type 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) butput voltage curve at output voltage at DC rated value output voltage at DC rated value at output 1 at DC rated value Yes; via potentiometer adjustable adjustable adjustable adjustable output voltage e at output voltage relative overall tolerance of the voltage on slow fluctuation of input voltage on slow fluctuation of input voltage maximum on slow fluctuation of ohm loading maximum on woltage peak maximum 200 mV display version for normal operation Green LED for 24 V OK type of signal at output voltaging module (6EP1961-3BA10)	line frequency	50/60 Hz		
• at rated input voltage 400 V 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 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) butput voltage curve at output voltage at DC rated value output voltage at DC rated value • at output 1 at DC rated value output voltage • at output voltage versit lolerance of the voltage output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum 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	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 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) relative output voltage at DC rated value output voltage adjustable at output voltage adjustable ves; via potentiometer adjustable output voltage at output voltage at output voltage at output voltage at output voltage 24 28.8 V; max. 960 W relative overall tolerance of the voltage at on slow fluctuation of input voltage at on slow fluctuation of input voltage at on slow fluctuation of ohm loading considual 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)	input current			
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) voltage curve at output Controlled, isolated DC voltage output voltage 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 24 28.8 V; max. 960 W on slow fluctuation of input voltage 0.1 % on slow fluctuation of ohm loading 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 via signaling module (6EP1961-3BA10)	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) **Total Controlled, isolated DC voltage** **Voltage curve at output** **Voltage at DC rated value** **Voltage at DC rated value** **Voltage at DC rated value** **Voltage adjustable Adjustab	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) **Tournament of the properties of the output of the output voltage at DC rated value **Tournament of the output voltage adjustable output voltage adjustable output voltage adjustable output voltage adjustable output voltage **Tournament of the output voltage on slow fluctuation of input voltage **Tournament of the output voltage on slow fluctuation of ohm loading on slow fluctuation of ohm loading on slow fluctuation of ohm loading on slow fluctuation of one of the voltage on maximum on slow fluctuation of normal operation of the output voltage of signal at output voltage of signal at output output output output output output voltage of signal at output	I2t 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 • at output 1 at DC rated value output voltage adjustable adjustable output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum outgage pak • maximum display version for normal operation for eight and in a survey or signal at output voltage adjustable output 24 V 24 V 24 V 24 V 00 Utput voltage adjustable 24 ··· 28.8 V; max. 960 W 3 % 7 Elative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of him loading 0.2 % 7 Elative control precision of the output voltage • on slow fluctuation of on normal operation for een LED for 24 V OK 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 adjustable 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 display version for normal operation Green LED for 24 V OK type of signal at output voltage (SEP1961-3BA10)	fuse protection type in the feeder			
output voltage at DC rated value output voltage • at output 1 at DC rated value 24 V output voltage adjustable output voltage adjustable adjustable output voltage 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 voltage maximum vitage ndiput voltage output voltage o	output			
output voltage	voltage curve at output	Controlled, isolated DC voltage		
adjustable output voltage adjustable adjustable output voltage 24 28.8 V; max. 960 W relative overall tolerance of the voltage a on slow fluctuation of input voltage a on slow fluctuation of ohm loading residual ripple a maximum voltage peak a maximum display version for normal operation type of signal at output Yes; via potentiometer 24 28.8 V; max. 960 W 7.	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 • 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 24 28.8 V; max. 960 W 3 % 100 mV 0.1 % 0.2 % 100 mV 6reen LED for 24 V OK via signaling module (6EP1961-3BA10)	at output 1 at DC rated value	24 V		
adjustable output voltage 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 type of signal at output 24 28.8 V; max. 960 W 3 % 100 mV 0.1 % 0.2 % 100 mV 6reen LED for 24 V OK 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 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)	<u> </u>			
relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple omaximum 100 mV voltage peak omaximum 200 mV display version for normal operation type of signal at output voltage Green LED for 24 V OK type of signal at output via signaling module (6EP1961-3BA10)	,			
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)	relative control precision of the output voltage			
		0.1 %		
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)		0.2 %		
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)	maximum	100 mV		
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)	maximum	200 mV		
type of signal at output via signaling module (6EP1961-3BA10)	display version for normal operation	Green LED for 24 V OK		
	<u> </u>	via signaling module (6EP1961-3BA10)		
		No overshoot of Vout (soft start)		

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	165
CB-certificate	No
MTBF at 40 °C	485 437 h
standards, specifications, approvals hazardous environments	100 101 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 °C; with natural convection
during transport	-40 +85 °C
during storage	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	
type of electrical connection	screw terminal
• at input	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm ² single-core/finely stranded
at output	+, -: 2 screw terminals each for 0.33 10 mm ²
for auxiliary contacts	
mechanical data	
unidate un besimbat un demate ef the entre element	
width × height × depth of the enclosure	240 × 125 × 125 mm
installation width × mounting height	240 × 125 × 125 mm 240 mm × 225 mm
installation width × mounting height required spacing	240 mm × 225 mm
installation width × mounting height required spacing • top	240 mm × 225 mm 50 mm
installation width × mounting height required spacing • top • bottom	240 mm × 225 mm 50 mm 50 mm
installation width × mounting height required spacing • top • bottom • left	240 mm × 225 mm 50 mm 50 mm 0 mm
installation width × mounting height required spacing	240 mm × 225 mm 50 mm 0 mm 0 mm
installation width × mounting height required spacing	240 mm × 225 mm 50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x15
installation width × mounting height required spacing	240 mm × 225 mm 50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes
installation width × mounting height required spacing	240 mm × 225 mm 50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No
installation width × mounting height required spacing	240 mm × 225 mm 50 mm 50 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No
installation width × mounting height required spacing	240 mm × 225 mm 50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No Yes
installation width × mounting height required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting housing can be lined up net weight	240 mm × 225 mm 50 mm 50 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No
installation width × mounting height required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting housing can be lined up net weight accessories	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
installation width × mounting height required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting housing can be lined up net weight accessories electrical accessories	240 mm × 225 mm 50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No Yes
installation width × mounting height required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting housing can be lined up net weight accessories electrical accessories further information internet links	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
installation width × mounting height required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting housing can be lined up net weight accessories electrical accessories further information internet links internet link	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 Buffer module, signaling module
installation width × mounting height required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting housing can be lined up net weight accessories electrical accessories further information internet links internet link • to website: Industry Mall	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 Buffer module, signaling module
installation width × mounting height required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting housing can be lined up net weight accessories electrical accessories further information internet links internet link • to website: Industry Mall • to web page: selection aid TIA Selection Tool	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 Buffer module, signaling module https://mall.industry.siemens.com https://www.siemens.com/tstcloud
installation width × mounting height required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting housing can be lined up net weight accessories electrical accessories further information internet links internet link • to website: Industry Mall • to web page: selection aid TIA Selection Tool • to website: CAx-Download-Manager	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 Buffer module, signaling module
installation width × mounting height required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting housing can be lined up net weight accessories electrical accessories further information internet links internet link • to website: Industry Mall • to web page: selection aid TIA Selection Tool	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 Buffer module, signaling module https://mall.industry.siemens.com https://www.siemens.com/tstcloud https://siemens.com/cax

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



Manufacturer Declaration Declaration of Conformity







General Product Approval

Environment

Miscellaneous





last modified:

4/4/2025