SIEMENS

Data sheet



SIPLUS PS PSU8200

spare part SIPLUS PS PSU8200 3-phase DC 24V 40A based on 6EP1437-3BA10 with conformal coating, -25…+70 °C, stabilized power supply input: 400-500 V 3 AC output: 24 V DC/40 A

Figure similar

nput		
type of the power supply network	3-phase AC	
supply voltage at AC		
minimum rated value	400 V	
maximum rated value	500 V	
• initial value	320 V	
full-scale value	575 V	
wide range input	Yes	
buffering time for rated value of the output current in the event of power failure minimum	15 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 	2.6 A	
at rated input voltage 500 V	2.1 A	
current limitation of inrush current at 25 °C maximum	56 A	
I2t value maximum	2.24 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)	
utput		
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	3 %	
relative control precision of the output voltage		
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	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	

* neartourners** * rated value** * rated range** * or and active stores are stored active power typical stores from which active store them which active store stores are stored active stored active stores are stored active stores are stored active stored power stores stored active stored power stored power stored active stored power stored active stored power stored active stored power stored active stored power stored power stored active stored stor		500	
Instant value Instant range Instant	• maximum	500 ms	
• rated range upplied active power typical stort-ierm overload current • at abort-ierrous during operation typical cutation of voerdoad grapability for excess current • at abort-ierrous during operation typical cutation of voerdoad grapability for excess current • at abort-ierrous during operation • on short-ierrous during operation • or short-ierrous operation • operation • or overdoad capability • or overdoad capability • or overdoad capability • or overdoad capability • overcoad capab	•	40.4	
supplied active power typical solon-term overload current a sta bort-circuit during operation typical at a stanch-circuit during operation typical at a stanch-circuit during operation typical at stanch-circuit during operation a stanch-circuit during operation be of short-circuiting during the start-up typical bridging of equipment annihing of parallel-awtehed equipment resources for increasing the power start typical and the control precent power loss [W] at material original typical at the control precent power loss [W] at the control precent of the output voltage with rapid blockabil on the input voltage by 1+. 15% typical relative control precision of the output voltage with rapid blockabil on the input voltage by 1+. 15% typical relative control precision of the output voltage stanch original typical attention of the control precision of the output voltage with rapid blockabil on the input voltage by 1+. 15% typical relative control precision of the output voltage stanch original typical attention of the control precision of the output voltage with rapid blockabil on the input voltage by 1+. 15% typical setting time - maximum 10 ms protection and involvations property of the output short-circuit protection - §typical design of the original protection - §typical 44 A A volvation and involvation approximation overload capability - in commal operation enduring short circuit current RMS value - typical displays version for overload and short circuit - maximum - starting galvanic isolation between input and output - yes galvanic isolation between input and output - yes galvanic isolation between input and output - yes galvanic isolation protection class - between temperature - in assimum - in a formation involvation protection - in maximum - in a formation involvation relating to a maximum - in a formation relating to arbitration relating to a maximum - in a formation relating to ambient temperature - air pressure - installation altitude - in the control relating to ambient temperature - air pres			
short-farm during operation typical 4 st short-circuit during operation typical 5 st short-circuit during operation 4 st short-circuit during operation 5 st short-circuit during operation 5 st short-circuit during operation 5 st short-circuit during operation 6 on short-circuiting during the start-up typical 4 st display current 6 on short-circuiting during the start-up typical 7 strained or parallel-awitched equipment resources for increasing be power 8 strained or parallel-awitched equipment resources for increasing be power 8 strained or parallel-awitched equipment resources for increasing be power 9 strained or parallel-awitched equipment resources for increasing be power 9 strained or parallel-awitched equipment resources for increasing be power 9 strained or parallel-awitched equipment resources for increasing be power 9 strained or parallel-awitched equipment resources for increasing be power 9 strained or parallel-awitched equipment resources for increasing be power 9 strained or parallel-awitched equipment resources for increasing be power 9 strained or parallel-awitched equipment resources for increasing be power 9 strained or parallel-awitched equipment resources for increasing be power 9 strained or parallel-awitched equipment resources for increasing be power 9 strained or parallel-awitched equipment resources for increasing be power 9 strained or properties of the output voltage with rapid current typical 9 strained or put voltage power through the parallel para	• rated range	0 40 A; +60 +70 °C: Derating 3.75%/K	
e at short-circuit during operation typical duration of overloading capability for excess current • at short-circuit during operation onstant overload current • on short-circuit during uping the start-up typical 44 A bridging of equipment unumber of paralle-witched equipment resources for increasing the power efficiency efficiency in percent power loss (IV) • at rated output voltage for rated value of the output current typical classed-loop control restative control procision of the output voltage with rapid fluctuation of the input voltage by *f- 15% typical restative control procision of the output voltage with rapid fluctuation of the input voltage by *f- 15% typical restative control procision of the output voltage with rapid fluctuation of the input voltage by *f- 15% typical restative control procision of the output voltage with rapid fluctuation of the input voltage by *f- 15% typical restative control procision of the output voltage with rapid fluctuation of the input voltage by *f- 15% typical restative load \$0700050 %; typical stelling lime • maximum • normal operation • typical • for control protection • typical • for mains harmonics limitation • for mains harmonics	supplied active power typical	960 W	
duration of overloading capability for excess current • at short-circuit during operation • on short-circuiting during the start-up typical • on short-circuiting during the start-up typical • on short-circuiting during the start-up typical **Toriging of equipment **Torigin of equipment **Torigin of equipment **T	short-term overload current		
entation-recurrent control coursing during the start-up typical 44.4 A Vess, switchable characteristic 2 version of the couple o		120 A	
constant overload current on other training during the start-up typical bridging of equipment number of parallel-switched equipment resources for increasing the power difficiency feliciency in percent power loss [M] of at atale dutput 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 500 (10% % typical) setting time omaximum protection and monitoring design of the overvoltage protection property of the output short-crout proof design of short-circuit protection Alternatively, constant oursent characteristic approx. 44 A or latching shutdown v-typical display version for overload and short circuit enduring short circuit current RNS value otypical display version for overload and short circuit enduring short circuit current RNS value otypical display version for overload and short circuit palvanic lookston between input and output yes galvanic lookston between input and output galvanic lookston between input and output operating resource protection class leakage current or maximum Sistey Final Andreads Final Starting Final			
e on short-circulting during the start-up typical bridging of equipment unuibor of parallel-witched equipment resources for increasing the power officiency efficiency in percent power loss (IV) • at rated output voltage for rated value of the output current typical clossed-doop centrol retative control precision of the output voltage with rapid fluctuation of the input voltage by ±1.5% typical retative control precision of the output voltage with rapid fluctuation of the input voltage by ±1.5% typical retative control precision of the output voltage load step of resistive load 50/100/50 % typical enabling time • maximum protection and monitoring property of the output short-circuit proof 44.A Ovecurrent overloade protection • typical overcourrent overloade capability • in normal operation enduring short circuit protection • typical display version for overload and short circuit glavanic isolation between input and output galvanic isolation between input and output • typical • for emitted interference • for mains harmonics limitation • for interference immunity • Cis marking The processor retative control of the output short of the output output output youtage Lout acc. to EN 60950-1 and EN 50178 Operating resource protection class leakage current • maximum of the office of short output		25 ms	
bridging of equipment number of parallel-switched equipment resources for increasing number of parallel-switched equipment resources for increasing the power difficiency Gifficiency • at a tated output voltage for rated value of the output relative control precision of the output voltage with reald fluctuation of the input voltage by 1-15% bytical relative control precision of the output voltage with reald fluctuation of the input voltage by 1-15% bytical relative control precision of the output voltage load step of resisting control precision of the output voltage load step of resisting control precision of the output voltage load step of resisting inine • maximum • no maximum • no maximum • yolical design of short-circuit protection • typical • yolical • yolical • yolical • yolical overload capability • in normal operation overload capability 150 % lout rated up to 5 strinin enduring short circuit current RMS value • typical display version for overload and short circuit * yelload overload and short circuit * yelload overload and short circuit * yelload overload capability • in normal operation overload capability 150 % lout rated up to 5 strinin enduring short circuit current RMS value • typical display version for overload and short circuit * yelload overload capability • playload for overload and short circuit * yelload overload capability • playload for overload and short circuit * yelload capability 150 % lout rated up to 5 strinin enduring short orcuit current RMS value • typical • typical • typical • typical • typical * yelload capability 150 % lout rated up to 5 strinin enduring short orcuit current RMS value • typical •			
number of parallel-ewitched equipment resources for increasing 2 efficiency in percent power loss [V] • at rated output voilage for rated value of the output current tybroll elastic control precision of the output voilage with rapid fluctuation of the input voilage by 4*. 15% typical relative control precision of the output voilage with rapid fluctuation of the input voilage by 4*. 15% typical relative control precision of the output voilage loss and sep of resistive load 50/10.060 % typical setting time • maximum 10 ms protection and monitorion design of the overvoilage protection • typical overcurrent overload capability • in normal operation • typical overcurrent overload dapability • in normal operation overcurrent overload dapability • in normal operation overcurrent overload and short circuit affety galvanic isolation between input and output galvanic isolation between input and output yeap assimation isolation between input and output • maximum or overcurrent overload sand short circuit - in or emitted interference • for mains harmonics limitation • for interference immunity • maximum or over mains harmonics limitation • for interference immunity • maximum or overload capability • CE marking Yes standard • for emitted interference • for mains harmonics limitation • for interference immunity • maximum • maximum or overload capability • CE marking Yes standard • for emitted interference • for mains harmonics limitation • for interference immunity • maximum • for emitted interference • for mains harmonics limitation • CE marking • CE marki	. ,,		
fiftiency efficiency in percent power loss [W] at rated output voltage for rated value of the output corrent typical clossed-loop control relative control precision of the output voltage with rapid fluctuation of the input voltage by +f- 15% typical relative control precision of the output voltage with rapid fluctuation of the input voltage by set 15% typical relative control precision of the output voltage load step of resistive load 5070055 % typical setting time maximum protection and monitoring design of the overvoltage protection yes a setting time Alternatively, constant current characteristic approx. 44 A or latching shutdown + typical overcurrent overload capability in normal operation overload capability 150 % lout rated up to 5 s/min enduring short circuit current EMS value + typical display version for overload and short circuit safety galvanic isolation between input and output yes galvanic isolation between input and output galvanic isolation operating resource protection class Class			
efficiency in percent power loss [W] a trated output voltage for rated value of the output current typical closed-Joop control relative control precision of the output voltage with rapid fluctuation of the input voltage with rapid fluctuation of the number output voltage load step of resistive load 50/100/50 % typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time maximum notection and monitoring design of the overvoltage protection where the output short-circuit proof design of short-circuit protection all protection and monitoring design of the overvoltage protection all protection and monitoring design of the overvoltage protection all protection and monitoring design of the overvoltage protection all protection and monitoring design of short-circuit protection all protection and monitoring design of short-circuit protection all protection and monitoring design of short-circuit protection all protection and poperation overload capability in normal operation enduring short circuit current RMS value all ypical all protection design of the output and output galvanic isolation between input and output galvanic isolation design protection class Class I leakage current and the output protection class IP EMC standard a for emitted interference for mains harmonics limitation for interference immunity EN 61000-6-2 standards, specifications, approvals certificate of suitability Certificate of suitability AC marking MTBF at 40 "C ambient conditions ambient conditions ambient conditions installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure installation altitude of the position of the ambient temperature by S KITODO military in the output by S Fire and the output voltage to the output voltage load to the ambient temperature by S Fire and t		2	
efficiency in percent power loss [W]	·		
power loss [W] a trated output voltage for rated value of the output current typical closed-fictop control retails central precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% pipical relative central precision of the output voltage load step of resistive load 50/100/50 % typical relative central procession of the output voltage load step of resistive load 50/100/50 % typical setting time * maximum		02 %	
a tarated output voltage for rated value of the output current typical closed-loop control precision of the output voltage with rapid fluctuation of the input voltage by +*- 15% typical relative control precision of the output voltage load step of resistive load 501/0050 % typical setting time maximum protoction and monitoring design of the overvoltage protection yes of other overvoltage protection yes of short-circuit protection Alternatively, constant current characteristic approx. 44 A or latching shutdown typical overcurent overload capability in normal operation overcurent overload capability in normal operation overcurent overload and short circuit protoction and short circuit protection Alternatively, constant current characteristic approx. 44 A or latching shutdown typical overcurent overload capability in normal operation overcurent overload and short circuit protoction of coverload and short circuit Elbyellow for "overload", LED red for "latching shutdown" safety galvanic isolation between input and output yes galvanic isolation between input and output galvanic isolation between input and output maximum protection class IP EN 55022 Class B EN 55022 Class B EN 55022 Class B EN 55003-2 Class B EN 55000-3-2 tentificate of suitability of or interference immunity EN 61000-3-2 End france immunity Nes 1000-3-2 Tentificate of suitability of marking Alternatively constant current characteristic approx. 44 A or latching shutdown and the conditions ambient conditions ambient condition relating to ambient temperature - air pressure installation altitude at height above sea level maximum microal france immunity In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %-1000 m or reduction of the ambient temperature by 5 Ki1000 m In case of operation of the ambient temperature by 5 Ki1000 m In case of operation of the ambient temperature by 5 Ki1000 m In case of operation of the ambient temperature by 5 Ki1000 m In case of op	· ·	92 /0	
relative control precision of the output voltage with rapid fluctuation of the input voltage by ++ 15% typical relative control precision of the output voltage load step of resistive load \$970,005 % typical setting time	at rated output voltage for rated value of the output	83 W	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • maximum			
fluctuation of the input voltage by vf-15% typical retailwe control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • maximum • maximum 10 ms protection and monitoring design of the overvoltage protection • typical voercurrent overload capability • in normal operation • overcurrent overload capability • in normal operation • overcurrent overload and short circuit • typical view of the output short-circuit proof yes • typical voercurrent overload dapability • typical voercurrent overload and short circuit • typical version for overl	-	1 %	
resistive load 50/10/50 % typical setting time			
• maximum protection and monitoring design of the overvoltage protection properly of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit by typical display version for overload and short circuit safety galvanic isolation between input and output • maximum protection class IP EMC Standard • for emitted interference • for mains harmonics limitation • for interference immunity • for mains harmonics limitation • for mitterference immunity • CE marking MTBF at 40 °C ambient conditions arbitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - in stallation altitude and the condition of the ambient temperature by 5 Kr1000 m Alternatively, constant current characteristic approx. 44 A or latching shutdown 44 A 44 A 44 A 44 A 45 By Heimanity 150 % lout rated up to 5 s/min overload capability 150 % lout rated up to 5 s/min overload capability 150 % lout rated up to 5 s/min overload capability 150 % lout rated up to 5 s/min overload capability 150 % lout rated up to 5 s/min overload capability 150 % lout rated up to 5 s/min overload capability 150 % lout rated up to 5 s/min overload capability 150 % lout rated up to 5 s/min overload capability 150 % lout rated up to 5 s/min overload capability 150 % lout rated up to 5 s/min overload capability 150 % lout rated up to 5 s/min overload capability 150 % lout rated up to 5 s/min overload capability 150 % lout rated up to 5 s/min overload capability 150 % lout rated up to 5 s/min overload capability 150 % lout rated up to 5 s/min overload capability 150 % lout rated up to 5 s/min overload capability 150 % lout rated up to 5 s/min overload capability 150 % lout rated up to 5 s/min overload capability 150 % lout rated up to 5 s/min overload capability 150 % lout rated up to 5 s/min overload capability 150 % lo		3 %	
design of the overvoltage protection	setting time		
design of the overvoltage protection		10 ms	
property of the output short-circuit protection design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical • typical d4 A display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation between input and output • maximum protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for emitted interference immunity • for mains harmonics limitation • for initerference immunity • CE marking MTEF at 40 °C ambient condition saltitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude and the form overload apability 150 % lout rated up to 5 s/min 44 A Alternatively, constant current characteristic approx. 44 A or latching shutdown 44 A Alternatively, constant current characteristic approx. 44 A or latching shutdown 44 A A A Alternatively, constant current characteristic approx. 44 A or latching shutdown 44 A A A A A A A A A A A A A A	protection and monitoring		
design of short-circuit protection vypical	design of the overvoltage protection	< 35 V	
vypical vercurrent overload capability in normal operation enduring short circuit current RMS value typical	property of the output short-circuit proof	Yes	
overcurrent overload capability • in normal operation overload capability 150 % lout rated up to 5 s/min enduring short circuit current RMS value • typical display version for overload and short circuit LED yellow for "overload", LED red for "latching shutdown" safety galvanic isolation between input and output yes galvanic isolation between input and output • maximum operating resource protection class leakage current • maximum protection class IP IP20 standard • for emitted interference • for mains harmonics limitation • for emitted interference immunity standards, specifications, approvals certificate of suitability • CE marking MTBF at 40 °C mabient conditions ambient temperature • in horizontal mounting position during operation • during storage installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude of the ambient temperature by 5 K/1000 m loverload capability 150 % lout rated up to 5 s/min 44 A 45 B 46 B 47 B 48 B 47 B 48 B 48 B 49 B 40 B	design of short-circuit protection	Alternatively, constant current characteristic approx. 44 A or latching shutdown	
in normal operation overload capability 150 % lout rated up to 5 s/min enduring short circuit current RMS value • typical display version for overload and short circuit LED yellow for "overload", LED red for "latching shutdown" safety galvanic isolation between input and output yes galvanic isolation persource protection class Class I leakage current • maximum protection class IP ENC standard • for emitted interference • for mains harmonics limitation • for emitted interference • for interference immunity standards, specifications, approvals certificate of suitability • CE marking MTBF at 40 °C 885 739 h mibient conditions ambient temperature • in horizontal mounting position during operation • during transport • during storage installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude leak A 44 A 44 A 44 A 44 A 45 44 A 44 A 45 44 A 45 45 46 47 48 48 49 40 40 40 40 40 40 40 40 40	• typical	44 A	
enduring short circuit current RMS value • typical display version for overload and short circuit LED yellow for "overload", LED red for "latching shutdown" safety galvanic isolation between input and output yes galvanic isolation Operating resource protection class leakage current • maximum protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity EN 61000-8-2 standards, specifications, approvals certificate of suitability • CE marking MTBF at 40 °C ambient conditions ambient temperature • in horizontal mounting position during operation • during transport • during transport • during storage installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude in case of operation at altitudes of 2000 - 6000 m above sea level: Output power derarting of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m	overcurrent overload capability		
o typical display version for overload and short circuit LED yellow for "overload", LED red for "latching shutdown" safety galvanic isolation between input and output yes galvanic isolation Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 operating resource protection class leakage current o maximum protection class IP IP20 EMC standard of or emitted interference for mains harmonics limitation of interference immunity EN 61000-3-2 of or interference immunity EN 61000-8-2 standards, specifications, approvals certificate of suitability OE marking MTBF at 40 °C ambient conditions ambient temperature in horizontal mounting position during operation of during transport during storage installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure installation altitude in case of operation at altitudes of 2000 - 6000 m above sea level: Output power derarting of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m in case of operation at altitudes of 2000 - 6000 m above sea level: Output power derarting of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m	in normal operation	overload capability 150 % lout rated up to 5 s/min	
display version for overload and short circuit safety galvanic isolation between input and output yes galvanic isolation between input and output yes galvanic isolation between input and output Yes class I Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Operating resource protection class leakage current • maximum protection class IP IP20 EMC Standard • for emitted interference • for mains harmonics limitation • for interference immunity EN 61000-3-2 • for interference immunity certificate of suitability • CE marking MTBF at 40 °C 885 739 h ambient conditions ambient temperature • in horizontal mounting position during operation • during transport • during storage installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude INDED TO VER OF THE ALL	enduring short circuit current RMS value		
galvanic isolation between input and output galvanic isolation between input and output galvanic isolation operating resource protection class Class I leakage current • maximum protection class IP EMC Standard • for emitted interference • for mains harmonics limitation • for interference immunity • for interference immunity • considered interference immunity • CE marking MTBF at 40 °C ambient conditions ambient temperature • in horizontal mounting position during operation • during transport • during storage installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude in case of operation output voltage Uout acc. to EN 60950-1 and EN 50178 Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Page 140 Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 EN 60950-1 and EN 50178 Page 140 Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 EN 60950-1 and EN 50178 EN 6000-3-2 EN 61000-3-2 EN 61	• typical	44 A	
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 MTBF at 40 °C ambient conditions ambient temperature • in horizontal mounting position during operation • during transport • during storage installation altitude at height above sea level maximum ambient condition relating to ambient temperature - installation altitude in case of operation output voltage Uout acc. to EN 60950-1 and EN 50178 Class I Leass	display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"	
galvanic isolation Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 operating resource protection class leakage current	safety		
operating resource protection class leakage current • maximum protection class IP EMC Standard • for emitted interference • for mains harmonics limitation • for interference immunity • for interference immunity • EN 61000-3-2 • for interference immunity • EN 61000-6-2 Standards, specifications, approvals certificate of suitability • CE marking MTBF at 40 °C ambient conditions ambient temperature • in horizontal mounting position during operation • during transport • during storage installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude in latitude in latitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude in case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m	galvanic isolation between input and output	Yes	
leakage current • maximum protection class IP IP20 EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity • for interference immunity • for interference immunity standards, specifications, approvals certificate of suitability • ©E marking MTBF at 40 °C ambient conditions ambient temperature • in horizontal mounting position during operation • during transport • during storage installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude in case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m	galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
maximum jordection class IP ip20 EMC standard	operating resource protection class	Class I	
protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity EN 61000-3-2 • for interference immunity EN 61000-6-2 standards, specifications, approvals certificate of suitability • CE marking MTBF at 40 °C 885 739 h ambient conditions ambient temperature • in horizontal mounting position during operation • during transport • during transport • during storage installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m	leakage current		
standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking MTBF at 40 °C ambient conditions ambient temperature • in horizontal mounting position during operation • during transport • during storage installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude in case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m			
standard • for emitted interference • for mains harmonics limitation • for interference immunity • for interference immunity standards, specifications, approvals certificate of suitability • CE marking MTBF at 40 °C ambient conditions ambient temperature • in horizontal mounting position during operation • during transport • during storage installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude • for emitted interference EN 55022 Class B EN 61000-3-2 EN 61000-6-2 **Sea *** **Yes *** **85 739 h *** *** *** *** *** *** ** **		IP20	
For emitted interference For mains harmonics limitation For interference immunity For interference immunity For interference immunity For interference immunity For interference immunity For interference immunity For interference immunity For interference immunity For interference For interference immunity For interference For interference immunity For interference interference immunity For interference immunity For interference immunity For interference inter			
for mains harmonics limitation			
• for interference immunity standards, specifications, approvals certificate of suitability • CE marking MTBF at 40 °C ambient conditions ambient temperature • in horizontal mounting position during operation • during transport • during storage installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude • for interference immunity Yes 885 739 h 885 739 h -25 +70 °C; with natural convection -40 +85 °C 6 000 m In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m			
standards, specifications, approvals certificate of suitability • CE marking MTBF at 40 °C ambient conditions ambient temperature • in horizontal mounting position during operation • during transport • during storage installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m			
certificate of suitability CE marking MTBF at 40 °C 885 739 h ambient conditions ambient temperature in horizontal mounting position during operation during transport during storage during storage installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude ln case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m		EN 61000-6-2	
CE marking MTBF at 40 °C 885 739 h ambient conditions ambient temperature • in horizontal mounting position during operation • during transport • during storage installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m **To C installation altitude at height above sea level maximum In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m			
MTBF at 40 °C ambient conditions ambient temperature • in horizontal mounting position during operation • during transport • during storage • during storage installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude -885 739 h -25 +70 °C; with natural convection -40 +85 °C -40 +85 °C 6 000 m In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m	•		
ambient conditions ambient temperature • in horizontal mounting position during operation • during transport • during storage • during storage installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude -25 +70 °C; with natural convection -40 +85 °C -40 +85 °C 6 000 m In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m			
ambient temperature • in horizontal mounting position during operation • during transport • during storage • during storage • during storage installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m		885 /39 h	
 in horizontal mounting position during operation during transport during storage 40 +85 °C during storage -40 +85 °C installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m 			
 ◆ during transport → during storage → 40 +85 °C → 40 +85 °C installation altitude at height above sea level maximum 6 000 m In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m 	·		
● during storage -40 +85 °C installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m			
installation altitude at height above sea level maximum ambient condition relating to ambient temperature - air pressure - installation altitude In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m			
ambient condition relating to ambient temperature - air pressure - installation altitude In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m		maximum 6 000 m	
- installation altitude power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m	·		
relative humidity with condensation according to IEC 60068-2- 100 %; RH incl. condensation/frost (no commissioning if condensation is		power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5	
	relative humidity with condensation according to IEC 60068-2-	100 %; RH incl. condensation/frost (no commissioning if condensation is	

38 maximum	present), horizontal installation	
chemical resistance to commercially available cooling lubricants	Yes; incl. diesel and oil droplets in the air	
resistance to biologically active substances conformity according to EN 60721-3-3	Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request	
resistance to chemically active substances conformity according to EN 60721-3-3	Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)	
resistance to mechanically active substances conformity according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust	
resistance to biologically active substances conformity according to EN 60721-3-6	Yes; Class 6B2 mold, fungal, sponge spores (except fauna)	
resistance to chemically active substances conformity according to EN 60721-3-6	Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)	
resistance to mechanically active substances conformity according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust	
coating for equipped printed circuit board according to EN 61086	Yes; Class 2 for high availability	
type of coating protection against pollution according to EN 60664-3	Yes; Type 1 protection	
type of test of the coating according to MIL-I-46058C	Yes; Discoloration of the coating during service life possible	
product conformity of the coating Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal Coating, Class A	
connection method		
type of electrical connection	screw 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 mm²	
for auxiliary contacts	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm ²	
mechanical data		
width × height × depth of the enclosure	150 × 125 × 150 mm	
installation width × mounting height	150 mm × 225 mm	
required spacing		
• top	50 mm	
• bottom	50 mm	
• left	0 mm	
• right	0 mm	
fastening method	Snaps onto DIN rail EN 60715 35x15	
standard rail mounting	Yes	
 S7 rail mounting 	No	
wall mounting	No	
housing can be lined up	Yes	
net weight	3.4 kg	
accessories		
electrical accessories	Buffer module	
mechanical accessories	Device identification label 20 mm × 7 mm, pale turquoise 3RT1900-1SB20	
further information internet links internet link		
to website: Industry Online Support	https://support.industry.siemens.com	
additional information		
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	
security information		
security information	Siemens provides products and solutions with industrial cybersecurity functions	
	that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase	

customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Classifications

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

Approvals Certificates

General Product Approval

EMV





last modified:

6/26/2024