## **SIEMENS**

## Data sheet

6EP3436-8SB00-0AY0



SITOP PSU8200 24 V/20 A STABILIZED POWER SUPPLY INPUT: 3 400-500 V AC OUTPUT: 24 V/20 A DC

Fechnical specifications  Product	SITOP PSU8200
Power supply, type	24 V/20 A
nput	
Input	3-phase AC
Rated voltage value Vin rated	400 500 V
Voltage range AC	320 575 V
Wide-range input	Yes
Mains buffering at lout rated, min.	15 ms; at Vin = 400 V
Rated line frequency	50 60 Hz
Rated line range	47 63 Hz
Input current at rated input voltage 400 V Rated	1.2 A
value	
Input current at rated input voltage 500 V Rated	1 A
value	
Switch-on current limiting (+25 °C), max.	18 A
I²t, max.	0.8 A <sup>2</sup> ·s
Built-in incoming fuse	none
Protection in the mains power input (IEC 898)	Required: 3-pole connected miniature circuit breaker 6 16 A
	characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or
	3RV2711-1DD10 (UL 489)
Dutput	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
Total tolerance, static ±	3 %

Static load balancing, approx.  Steic load balancing, approx.  Spikes peak-peak, max.  Spikes peak-peak, max.  Spikes peak-peak, max.  Adjustment range  Output voltage adjustable  Output voltage setting  Status display  Green LED for 24 V OK  Status display  Green LED for 24 V OK  Status display  On/off behavior  No overshoot of Vout (soft start)  Startup delay, max.  Voltage increase time of the output voltage maximum  Rated current value lout rated  20 A  Our-current range  Note  Note  Active power supplied typical  Short-term overload current at short-circuiting during the start-up typical  Short-term overload current at short-circuit during operation typical  Short-term overload current at short-circuit during operation typical  Short-term overload current at short-circuit during operation typical  Short-term overload performance  Yes; switchable characteristic  Wumbers of parallel switchable units for enhanced performance  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  1 %  Power loss at Vout rated, lout rated, approx.  1 %  Power loss at Vout rated, lout rated at 15 %), max.  Load step setting time 50 to 100%, typ.  Load step setting time 50 to 100%, typ.  2 ms  Setting time maximum  10 ms  Protection and monitoring  Output overvoltage protection  Alternatively, constant current characteristic approx. 23 A or latching short circuit protecton  Enduring short circuit current RMS value typical  Enduring short circuit current RMS value typical		
Residual ripple peak-peak, max.  Spikes peak-peak, max. (bandwidth: 20 MHz)  Adjustment range  Product function Output voltage adjustable  Ves  Output voltage setting  Via potentiometer; max. 480 W  Status display  Green LED for 24 V OK  Signaling  Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"  No overshoot of Vout (soft start)  Startup delay, max.  Voltage increase time of the output voltage maximum  Rated current value fout rated  20 A  Current range  Note  Note  Active power supplied typical  Constant overload current at short-circuit during operation typical  Duration of overloading capability for excess current at short-direct during operation typical  Duration of overloading capability for excess current at short-direct during operation shorts for arallel switching for enhanced performance  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Prover loss at Vout rated, lout rated, approx.  94 %  Power loss at Vout rated, lout rated, approx.  94 %  Power loss at Vout rated, lout rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 1/4p.  Load step setting time 50 to 100%, typ.  2 ms  Setting time maximum  10 ms  Protection and monitoring  Output overvoltage protection  2 at Alternatively, constant current characteristic approx. 23 A or latching shutdown	Static mains compensation, approx.	0.1 %
Spikes peak-peak, max. (bandwidth: 20 MHz) Adjustment range Product function Output voltage adjustable Output voltage setting via potentiometer; max. 480 W Status display Status display Green LED for 24 V OK Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" On/off behavior No overshoot of Vout (soft start) Startup delay, max. 2.5 s Voltage increase time of the output voltage maximum Rated current value lout rated 20 A Current range Note Note Note Active power supplied typical Constant overload current at short-circuiting during the start-up typical Short-term overload current at short-circuit during operation hypical Short-circuit during operation Parallel switching for enhanced performance Ves; switchable characteristic Numbers of parallel switchable units for enhanced performance  Efficiency Efficiency Efficiency at Vout rated, lout rated, approx. Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± 1yp. Load step setting time 50 to 100%, typ. 2 ms Setting time maximum  Protection and monitoring Output overvoltage protection Alternatively, constant current characteristic approx. 23 A or latching shutdown	Static load balancing, approx.	0.2 %
Adjustment range Product function Output voltage adjustable Ves Output voltage setting Status display Green LED for 24 V OK Signaling Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" No overshoot of Vout (soft start) Startup delay, max. Voltage increase time of the output voltage maximum Rated current value lout rated 20 A Current range Note Note Note Active power supplied typical Constant overload current on short-circuit during peration fly position of voverloading capability for excess current at short-circuit during operation of voverloading capability for excess current at short-circuit during operation fly pical Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced performance  Pfficiency Efficiency Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. 94 % Power loss at Vout rated, lout rated, approx. 94 % Power loss at Vout rated, lout rated, approx. 94 % Power loss at Vout rated, lout rated, approx. 95 ypnamic load smoothing (lout: 50/100/50 %), Uout ± typ. Load step setting time 50 to 100%, typ. 2 ms Load step setting time 50 to 100%, typ. 2 ms Setting time maximum 10 ms Protection and monitoring Output overvoltage protection Ves Short-circuit protection Alternatively, constant current characteristic approx. 23 A or latching shutdown	Residual ripple peak-peak, max.	100 mV
Product function Output voltage adjustable  Output voltage setting  Status display  Green LED for 24 V OK  Signaling  Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"  On/off behavior  No overshoot of Vout (soft start)  Startug delay, max.  Voltage increase time of the output voltage maximum  Fated current value lout rated  O 20 A  Current range  Note  Note  Note  Active power supplied typical  Constant overload current on short-circuiting during the start-up typical  Short-term overload current at short-circuit during operation bytolal  Duration of overloading capability for excess current at short-circuit during operation bytolal  Duration of overloading capability for excess current at short-circuit during operation  Parallel switching for enhanced performance  Numbers of parallel switching for enhanced performance  Numbers of parallel switching for enhanced performance  Pefficiency  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic mains compensation (Vin rated ±15 %), pass  Load step setting time 50 to 100%, typ.  2 ms  Load step setting time 50 to 100%, typ.  2 ms  Load step setting time 100 to 50%, typ.  2 ms  Setting time maximum  Protection and monitoring  Output overvoltage protection  Ves  Short-circuit protection  Alternatively, constant current characteristic approx. 23 A or latching shutdown	Spikes peak-peak, max. (bandwidth: 20 MHz)	200 mV
Cutput voltage setting  Via potentiometer; max. 480 W  Status display  Green LED for 24 V OK  Signaling  Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"  No overshoot of Vout (soft start)  Startup delay, max.  2.5 s  Voltage increase time of the output voltage maximum  Rated current value lout rated  2.0 A  • Note  •	Adjustment range	24 28.8 V
Status display  Green LED for 24 V OK  Signaling  Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"  No overshoot of Vout (soft start)  Startup delay, max.  Voltage increase time of the output voltage maximum  Rated current value lout rated  20 A  Current range  • Note  • Note  • Note  • Note  160 +70 °C: Derating 3%/K  Active power supplied typical  Constant overload current on short-circuiting during the start-up typical  Short-term overload current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation by the start-up typical  Duration of overloading capability for excess current at short-circuit during operation  Parallel switchable units for enhanced performance  Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  94 %  Power loss at Vout rated, lout rated, approx.  1 %  max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 1/19.  Load step setting time 50 to 100%, typ.  2 ms  Setting time maximum  10 ms  Protection and monitoring  Output overvoltage protection  Current limitation, typ.  Property of the output Short-circuit proof  Short-circuit protection  Alternatively, constant current characteristic approx. 23 A or latching shutdown	Product function Output voltage adjustable	Yes
Signaling Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" On/off behavior No overshoot of Vout (soft start) Startup delay, max. 2.5 s Voltage increase time of the output voltage maximum Food ms Rated current value lout rated 2.0 A Current range • Note • O 20 A  Constant overload current on short-circuiting during the start-up typical Short-term overload current at short-circuit during operation typical Duration of overloading capability for excess current at short-circuit during operation typical Duration of overloading capability for excess current at short-circuit during operation with the start-circuit during operation Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced performance Performance  Efficiency Efficiency at Vout rated, lout rated, approx. 94 % Power loss at Vout rated, lout rated, approx. 31 W  Closed-loop control  Dynamic nains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 % typ. Load step setting time 50 to 100%, typ. 2 ms Setting time maximum 10 ms  Protection and monitoring Output overvoltage protection  Current limitation, typ. Property of the output Short-circuit proof Short-circuit protection Alternatively, constant current characteristic approx. 23 A or latching shutdown	Output voltage setting	via potentiometer; max. 480 W
Ontoff behavior  Startup delay, max.  Voltage increase time of the output voltage maximum  Rated current value lout rated  20 A  Current range  No word of Vout (soft start)  Startup delay, max.  On the start value lout rated  20 A  Current range  Note	Status display	Green LED for 24 V OK
Startup delay, max.  Voltage increase time of the output voltage maximum  Rated current value lout rated  20 A  • Note  • Note  • Note  Active power supplied typical  Constant overload current on short-circuiting during the start-up typical  Short-term overload current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation switchable units for enhanced performance  Parallel switching for enhanced performance  Ves; switchable characteristic  Lifticiency  Efficiency  Efficiency  Efficiency at Yout rated, lout rated, approx.  94 %  Power loss at Yout rated, lout rated, approx.  1 %  max.  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic toad smoothing (lout: 50/100/50 %), Uout ± typ.  Load step setting time 50 to 100%, typ.  2 ms  Load step setting time 100 to 50%, typ.  2 ms  Setting time maximum  10 ms  Protection and monitoring  Output overvoltage protection  Current limitation, typ.  Alternatively, constant current characteristic approx. 23 A or latching shutdown	Signaling	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
Voltage increase time of the output voltage maximum  Rated current value lout rated  20 A  Current range  • Note  Active power supplied typical  Constant overload current on short-circuiting during the start-up typical  Short-term overload current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation for enhanced performance  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency  Efficiency  Efficiency  Closed-loop control  Dynamic mains compensation (Vin rated, approx.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 1/4p.  Load step setting time 50 to 100%, typ.  2 ms  Setting time maximum  Protection and monitoring  Output overvoltage protection  Current limitation, typ.  Property of the output Short-circuit proof  Alternatively, constant current characteristic approx. 23 A or latching shutdown	On/off behavior	No overshoot of Vout (soft start)
Rated current value lout rated  Current range  Note  N	Startup delay, max.	2.5 s
Current range  Note  Not	Voltage increase time of the output voltage maximum	500 ms
Note	Rated current value lout rated	20 A
Active power supplied typical  Constant overload current on short-circuiting during the start-up typical  Short-term overload current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation of overloading capability for excess current at short-circuit during operation  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  1 %  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %  typ.  Load step setting time 50 to 100%, typ.  2 ms  Setting time maximum  10 ms  Protection and monitoring  Output overvoltage protection  Current limitation, typ.  2 and  Alternatively, constant current characteristic approx. 23 A or latching shutdown	Current range	0 20 A
Constant overload current on short-circuiting during the start-up typical  Short-term overload current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  1 %  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.  Load step setting time 50 to 100%, typ.  Load step setting time 100 to 50%, typ.  Setting time maximum  10 ms  Protection and monitoring  Output overvoltage protection  Current limitation, typ.  Property of the output Short-circuit proof  Short-circuit protection  Alternatively, constant current characteristic approx. 23 A or latching shutdown	• Note	+60 +70 °C: Derating 3%/K
the start-up typical  Short-term overload current at short-circuit during operation typical  Duration of overloading capability for excess current at short-circuit during operation  Parallel switching for enhanced performance  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  94 %  Power loss at Vout rated, lout rated ±15 %), max.  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 %  typ.  Load step setting time 50 to 100%, typ.  Load step setting time 100 to 50%, typ.  Setting time maximum  10 ms  Protection and monitoring  Output overvoltage protection  Current limitation, typ.  Property of the output Short-circuit proof  Short-circuit protection  Alternatively, constant current characteristic approx. 23 A or latching shutdown	Active power supplied typical	480 W
operation typical  Duration of overloading capability for excess current at short-circuit during operation  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.  Load step setting time 50 to 100%, typ.  Load step setting time 100 to 50%, typ.  Setting time maximum  Protection and monitoring  Output overvoltage protection  Current limitation, typ.  Property of the output Short-circuit proof  Short-circuit protection  Alternatively, constant current characteristic approx. 23 A or latching shutdown		23 A
at short-circuit during operation  Parallel switching for enhanced performance  Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  1 %  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 % typ.  Load step setting time 50 to 100%, typ.  2 ms  Setting time maximum  10 ms  Protection and monitoring  Output overvoltage protection  Current limitation, typ.  Property of the output Short-circuit proof  Short-circuit protection  Alternatively, constant current characteristic approx. 23 A or latching shutdown	_	60 A
Numbers of parallel switchable units for enhanced performance  Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx. 94 %  Power loss at Vout rated, lout rated, approx. 31 W  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.  Load step setting time 50 to 100%, typ. 2 ms  Load step setting time 100 to 50%, typ. 2 ms  Setting time maximum 10 ms  Protection and monitoring  Output overvoltage protection <35 V  Current limitation, typ. 23 A  Property of the output Short-circuit proof Yes  Short-circuit protection Alternatively, constant current characteristic approx. 23 A or latching shutdown		25 ms
Efficiency  Efficiency  Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  1 W  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.  Load step setting time 50 to 100%, typ.  Load step setting time 100 to 50%, typ.  Setting time maximum  Protection and monitoring  Output overvoltage protection  Current limitation, typ.  Property of the output Short-circuit proof  Short-circuit protection  Alternatively, constant current characteristic approx. 23 A or latching shutdown	Parallel switching for enhanced performance	Yes; switchable characteristic
Efficiency at Vout rated, lout rated, approx.  Power loss at Vout rated, lout rated, approx.  21 W  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.  Load step setting time 50 to 100%, typ.  Load step setting time 100 to 50%, typ.  Setting time maximum  Protection and monitoring  Output overvoltage protection  Current limitation, typ.  Property of the output Short-circuit proof  Short-circuit protection  Alternatively, constant current characteristic approx. 23 A or latching shutdown	•	2
Power loss at Vout rated, lout rated, approx.  21 W  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.  Load step setting time 50 to 100%, typ.  Load step setting time 100 to 50%, typ.  Setting time maximum  Protection and monitoring  Output overvoltage protection  Current limitation, typ.  Property of the output Short-circuit proof  Short-circuit protection  Alternatively, constant current characteristic approx. 23 A or latching shutdown	Efficiency	
Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.  Load step setting time 50 to 100%, typ.  Load step setting time 100 to 50%, typ.  Setting time maximum  Protection and monitoring  Output overvoltage protection  Current limitation, typ.  Property of the output Short-circuit proof  Short-circuit protection  Alternatively, constant current characteristic approx. 23 A or latching shutdown	Efficiency at Vout rated, lout rated, approx.	94 %
Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.  Load step setting time 50 to 100%, typ.  Load step setting time 100 to 50%, typ.  Setting time maximum  10 ms  Protection and monitoring  Output overvoltage protection  Current limitation, typ.  Property of the output Short-circuit proof  Short-circuit protection  Alternatively, constant current characteristic approx. 23 A or latching shutdown	Power loss at Vout rated, lout rated, approx.	31 W
Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.  Load step setting time 50 to 100%, typ.  Load step setting time 100 to 50%, typ.  Setting time maximum  10 ms  Protection and monitoring  Output overvoltage protection  Current limitation, typ.  Property of the output Short-circuit proof  Short-circuit protection  Alternatively, constant current characteristic approx. 23 A or latching shutdown	Closed loop control	
max.  Dynamic load smoothing (lout: 50/100/50 %), Uout ± 2 % typ.  Load step setting time 50 to 100%, typ. 2 ms  Load step setting time 100 to 50%, typ. 2 ms  Setting time maximum 10 ms  Protection and monitoring  Output overvoltage protection < 35 V  Current limitation, typ. 23 A  Property of the output Short-circuit proof Yes  Short-circuit protection Alternatively, constant current characteristic approx. 23 A or latching shutdown	<u> </u>	1 %
typ.  Load step setting time 50 to 100%, typ.  Load step setting time 100 to 50%, typ.  Setting time maximum  Protection and monitoring  Output overvoltage protection  Current limitation, typ.  Property of the output Short-circuit proof  Short-circuit protection  Alternatively, constant current characteristic approx. 23 A or latching shutdown		. ,,
Load step setting time 100 to 50%, typ.  Setting time maximum  10 ms  Protection and monitoring Output overvoltage protection  Current limitation, typ.  Property of the output Short-circuit proof  Short-circuit protection  Alternatively, constant current characteristic approx. 23 A or latching shutdown	,	2 %
Setting time maximum  Protection and monitoring  Output overvoltage protection  Current limitation, typ.  Property of the output Short-circuit proof  Short-circuit protection  Alternatively, constant current characteristic approx. 23 A or latching shutdown	Load step setting time 50 to 100%, typ.	2 ms
Protection and monitoring  Output overvoltage protection < 35 V  Current limitation, typ. 23 A  Property of the output Short-circuit proof Yes  Short-circuit protection Alternatively, constant current characteristic approx. 23 A or latching shutdown	Load step setting time 100 to 50%, typ.	2 ms
Output overvoltage protection < 35 V  Current limitation, typ. 23 A  Property of the output Short-circuit proof Yes  Short-circuit protection Alternatively, constant current characteristic approx. 23 A or latching shutdown	Setting time maximum	10 ms
Output overvoltage protection < 35 V  Current limitation, typ. 23 A  Property of the output Short-circuit proof Yes  Short-circuit protection Alternatively, constant current characteristic approx. 23 A or latching shutdown	Protection and monitoring	
Property of the output Short-circuit proof  Short-circuit protection  Alternatively, constant current characteristic approx. 23 A or latching shutdown	Output overvoltage protection	< 35 V
Short-circuit protection  Alternatively, constant current characteristic approx. 23 A or latching shutdown	Current limitation, typ.	23 A
latching shutdown	Property of the output Short-circuit proof	Yes
Enduring short circuit current RMS value typical 23 A	Short-circuit protection	
	Enduring short circuit current RMS value typical	23 A

Overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min
Overload/short-circuit indicator	LED yellow for "overload", LED red for "latching shutdown"
 Safety	
Primary/secondary isolation	Yes
Galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection class	Class I
Leakage current maximum	3.5 mA
Leakage current typical	0.9 mA
CE mark	Yes
UL/CSA approval	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
Explosion protection	IECEx Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nA nC IIC T4; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T4
Certificate of suitability IECEx	Yes
Certificate of suitability NEC Class 2	No
FM approval	-
CB approval	Yes
Marine approval	GL, ABS
Degree of protection (EN 60529)	IP20
EMC	
EMC Emitted interference	EN 55022 Class B
	EN 55022 Class B EN 61000-3-2
Emitted interference	
Emitted interference Supply harmonics limitation Noise immunity	EN 61000-3-2
Emitted interference Supply harmonics limitation	EN 61000-3-2
Emitted interference Supply harmonics limitation Noise immunity Operating data	EN 61000-3-2 EN 61000-6-2
Emitted interference Supply harmonics limitation Noise immunity  Operating data Ambient temperature during operation  • Note	EN 61000-3-2 EN 61000-6-2 -25 +70 °C
Emitted interference Supply harmonics limitation Noise immunity  Operating data Ambient temperature during operation	EN 61000-3-2 EN 61000-6-2  -25 +70 °C with natural convection
Emitted interference Supply harmonics limitation Noise immunity  Operating data Ambient temperature during operation  • Note Ambient temperature during transport	EN 61000-3-2 EN 61000-6-2  -25 +70 °C with natural convection -40 +85 °C
Emitted interference Supply harmonics limitation Noise immunity  Operating data Ambient temperature during operation  • Note Ambient temperature during transport Ambient temperature during storage Humidity class according to EN 60721	EN 61000-3-2 EN 61000-6-2  -25 +70 °C with natural convection -40 +85 °C -40 +85 °C
Emitted interference Supply harmonics limitation Noise immunity  Operating data Ambient temperature during operation  Note Ambient temperature during transport Ambient temperature during storage Humidity class according to EN 60721  Mechanics	EN 61000-3-2 EN 61000-6-2  -25 +70 °C with natural convection -40 +85 °C -40 +85 °C Climate class 3K3, no condensation
Emitted interference Supply harmonics limitation Noise immunity  Operating data Ambient temperature during operation  • Note Ambient temperature during transport Ambient temperature during storage Humidity class according to EN 60721  Mechanics Connection technology	EN 61000-3-2 EN 61000-6-2  -25 +70 °C with natural convection -40 +85 °C -40 +85 °C Climate class 3K3, no condensation
Emitted interference Supply harmonics limitation Noise immunity  Operating data Ambient temperature during operation  Note Ambient temperature during transport Ambient temperature during storage Humidity class according to EN 60721  Mechanics	EN 61000-3-2 EN 61000-6-2  -25 +70 °C with natural convection -40 +85 °C -40 +85 °C Climate class 3K3, no condensation
Emitted interference Supply harmonics limitation Noise immunity  Operating data Ambient temperature during operation  • Note Ambient temperature during transport Ambient temperature during storage Humidity class according to EN 60721  Mechanics Connection technology	EN 61000-3-2 EN 61000-6-2  -25 +70 °C with natural convection -40 +85 °C -40 +85 °C Climate class 3K3, no condensation  screw-type terminals L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-
Emitted interference Supply harmonics limitation Noise immunity  Operating data Ambient temperature during operation  • Note Ambient temperature during transport Ambient temperature during storage Humidity class according to EN 60721  Mechanics Connection technology Connections Supply input	EN 61000-3-2 EN 61000-6-2  -25 +70 °C with natural convection -40 +85 °C -40 +85 °C Climate class 3K3, no condensation  screw-type terminals L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded
Emitted interference Supply harmonics limitation Noise immunity  Operating data Ambient temperature during operation  Note Ambient temperature during transport Ambient temperature during storage Humidity class according to EN 60721  Mechanics Connection technology Connections Supply input  Connections Output	EN 61000-3-2 EN 61000-6-2  -25 +70 °C with natural convection -40 +85 °C -40 +85 °C Climate class 3K3, no condensation  screw-type terminals L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm²
Emitted interference Supply harmonics limitation Noise immunity  Operating data Ambient temperature during operation  Note Ambient temperature during transport Ambient temperature during storage Humidity class according to EN 60721  Mechanics Connection technology Connections Supply input  Connections Output Connections Auxiliary	EN 61000-3-2 EN 61000-6-2  -25 +70 °C with natural convection -40 +85 °C -40 +85 °C Climate class 3K3, no condensation  screw-type terminals L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²
Emitted interference Supply harmonics limitation Noise immunity  Operating data Ambient temperature during operation  Note Ambient temperature during transport Ambient temperature during storage Humidity class according to EN 60721  Mechanics Connection technology Connections Supply input  Connections Output Connections Auxiliary Width of the enclosure	EN 61000-3-2 EN 61000-6-2  -25 +70 °C with natural convection -40 +85 °C -40 +85 °C Climate class 3K3, no condensation  screw-type terminals L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 mm
Emitted interference Supply harmonics limitation Noise immunity  Operating data Ambient temperature during operation  Note Ambient temperature during transport Ambient temperature during storage Humidity class according to EN 60721  Mechanics Connection technology Connections Supply input  Connections Output Connections Auxiliary Width of the enclosure Height of the enclosure	EN 61000-3-2 EN 61000-6-2  -25 +70 °C with natural convection -40 +85 °C -40 +85 °C Climate class 3K3, no condensation  screw-type terminals L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 mm 125 mm

Product property of the enclosure housing for side-	Yes
by-side mounting	
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
Electrical accessories	Buffer module
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)