SIEMENS

## Data sheet 6EP4683-6LB00-0AY0

LOGO! ICL230/1AC100-240V/5A

LOGO! ICL230 Inrush current limiter Input: 100-240 V AC Output: 100-240 V AC/5 A

| | |
|---|---|
| **input** | |
| type of the power supply network | 1-phase AC |
| supply voltage at AC | |
| ● minimum rated value | 100 V |
| ● maximum rated value | 240 V |
| ● initial value | 85 V |
| ● full-scale value | 264 V |
| wide range input | Yes |
| current limitation of inrush current at 25 °C maximum | 10 A |
| duration of inrush current limiting at 25 °C | |
| ● typical | 60 ms |
| fuse protection type | Overload protection in case of error through non-reversible thermal fuse |
| **output** | |
| voltage curve at output | according to the supply voltage |
| output voltage | |
| ● at AC rated value | 100 - 240 V |
| ● at AC | 85 ... 264 |
| output voltage adjustable | No |
| display version for normal operation | Green LED |
| output current | |
| ● rated range | 0 ... 5 A; Active current limitation for 60 ms to 10 A during switch-on. |
| bridging of equipment | No |
| **efficiency** | |
| power loss [W] | |
| ● at rated output voltage for rated value of the output current typical | 1.5 W |
| **protection and monitoring** | |
| design of short-circuit protection | must be ensured by primary protection element |
| overcurrent overload capability | |
| ● when switching on | Switching frequency max. 2 events per minute. Time-limited increased switching frequency once per hour for one minute (typ. 30 events per minute). |
| **safety** | |
| standard for safety | EN 60950-1 |
| galvanic isolation between input and output | No |
| operating resource protection class | Class II |
| protection class IP | IP20 |
| **EMC** | |
| standard | |
| ● for emitted interference | EN 61000-6-3 |
| ● for mains harmonics limitation | - |

| | |
|---|---|
| • for interference immunity | EN 61000-6-2 |
| **standards, specifications, approvals** | |
| certificate of suitability | |
| • CE marking | Yes |
| • UL approval | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 |
| • CSA approval | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 |
| • EAC approval | Yes |
| • NEC Class 2 | No |
| type of certification | |
| • CB-certificate | Yes |
| **standards, specifications, approvals hazardous environments** | |
| certificate of suitability | |
| • IECEx | No |
| • ATEX | No |
| • ULhazloc approval | No |
| • cCSAus, Class 1, Division 2 | No |
| • FM registration | No |
| **standards, specifications, approvals marine classification** | |
| shipbuilding approval | No |
| Marine classification association | |
| • 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 |
| **ambient conditions** | |
| ambient temperature | |
| • during operation | -40 ... +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, N: 1 screw terminal each for 0.5 ... 2.5 mm² |
| • at output | L1, N: 1 screw terminal each for 0.5 ... 2.5 mm² |
| **mechanical data** | |
| width × height × depth of the enclosure | 18 × 90 × 53 mm |
| installation width × mounting height | 18 mm × 130 mm |
| required spacing | |
| • top | 20 mm |
| • bottom | 20 mm |
| • left | 0 mm |
| • right | 0 mm |
| fastening method | Snaps onto DIN rail EN 60715 35x7.5/15 |
| • standard rail mounting | Yes |
| • S7 rail mounting | No |
| • wall mounting | Yes |
| housing can be lined up | Yes |
| net weight | 0.14 kg |
| **further information internet links** | |
| internet link | |
| • to website: Industry Mall | https://mall.industry.siemens.com |
| • to website: Industrial communication | https://siemens.com/industrial-communication |
| • to website: CAx-Download-Manager | https://siemens.com/cax |
| • 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

Manufacturer Declaration

Declaration of Conformity

RCM

**last modified:** 6/26/2024