



PRODUCT-DETAILS

ACS880-01-027A-7

LV AC industrial wall-mounted single drive,
IEC: Pn 22 kW, 27 A, 690 V, UL: Pld 25 Hp, 27 A,
575 V (ACS880-01-027A-7)



| General Information | |
|-------------------------|--|
| Global Commercial Alias | ACS880-01-027A-7 |
| Product ID | 3AXD50000046389 |
| ABB Type Designation | ACS880-01-027A-7 |
| EAN | 6438177522737 |
| Catalog Description | LV AC industrial wall-mounted single drive, IEC: Pn 22 kW, 27 A, 690 V, UL: Pld 25 Hp, 27 A, 575 V (ACS880-01-027A-7) |
| Long Description | <p>The ACS880-01 drives are customized to meet the particular needs of specific industries, such as oil and gas, mining, metals, chemicals, cement, power plants, material handling, pulp and paper, sawmills, marine, water and wastewater, food and beverage, and automotive. They can control a wide range of applications, including cranes, extruders, winches, winders, conveyors, mixers, compressors, centrifuges, test benches, elevators, extruders, pumps and fans.</p> <p>The ACS880-01 comes in one compact package for easy installation and commissioning. The drive can be installed on the wall as standard and in a cabinet as an option. The drive offering includes enclosure classes up to IP55, making it suitable for most environments and installations. ACS880-01 drives have all the essential features built-in. These features include as standard a choke for harmonic filtering as well as options like a brake chopper, EMC filter and communication protocol adapter, functional safety, external output filters and I/O extension modules.</p> |

Ordering

| | |
|-------------------------|---|
| Customs Tariff Number | 85044085 |
| HS Code | 850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters |
| Invoice Description | ACS880-01-027A-7 PN: 22 kW, IN: 27 A |
| Made To Order | Yes |
| Minimum Order Quantity | 1 piece |
| Order Multiple | 1 piece |
| Quote Only | No |
| Selling Unit of Measure | piece |

Dimensions

| | |
|--------------------------------|----------------------|
| Product Net Weight | 10.8 kg 23.810 lb |
| Product Net Depth / Length | 261 mm 10.276 in |
| Product Net Height | 475 mm 18.701 in |
| Product Net Width | 173 mm 6.81 in |
| Package Level 1 Depth / Length | 624 mm 24.57 in |
| Package Level 1 Height | 316 mm 12.441 in |
| Package Level 1 Width | 256 mm 10.079 in |
| Package Level 1 Units | 1 carton |

Certificates and Declarations

| | |
|--------------------------------|--|
| Declaration of Conformity - CE | 3AXD10000497831 |
| REACH Date | 20241203 |
| REACH Declaration | 9AKK107992A7060 |
| REACH Information | True - contains substances > 0.1 mass percentage |
| RoHS Date | 20240508 |
| RoHS Information | 3AXD10000497831 |
| RoHS Status | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |

Technical

| | |
|----------------------------------|--|
| Number of Phases | 3 |
| Degree of Protection | IP21 |
| Enclosure Type NEMA | Type1 |
| Altitude | 4000 m 5 ... 95 |
| Sound dB (A) | 60 dB(A) |
| Multiple Battery Information | Lithium Coin, CR2032, 220 mAh, 3 V, 2 pcs, 6 g |
| Frequency (f) | 47.5 ... 63 Hz |
| Frame Size | R3 |
| Input Voltage (U _{in}) | 525 ... 690 V |
| Mounting Type | Wall-mounted |

Communication Protocol

- CAN
- DeviceNet
- EtherNet/IP
- MODBUS
- Other Bus Systems
- PROFIsafe
- PROFIBUS
- PROFINET IO

Number of Hardware Interfaces

- Industrial Ethernet 0
- Other 4
- Parallel 0
- PROFINET 0
- RS-232 0
- RS-422 0
- RS-485 1
- Serial TTY 0
- USB 1

| | |
|---|-------------------------------|
| Includes | Control unit PC connection |
| Analog Inputs | 2 |
| Analog Outputs | 2 |
| Number of Digital In/Outputs | 6 / 2 |
| Output Current, Normal Use (I_N) | 27 A |
| Output Current, Light-Overload Use (I_{LD}) | 26 A |
| Output Current, Heavy-Duty Use (I_{HD}) | 23 A |
| Output Power, Normal Use (P_N) | 22 kW |
| Output Power, Light-Overload Use (P_{LD}) | 22 kW |
| Output Power, Heavy-Duty Use (P_{HD}) | 18.5 kW |
| | 426 W |
| Apparent Power Output | 32 kV·A |
| Efficiency Level | IE2 |
| Standby Loss | 24 W |
| Complete Drive Module Efficiency (IEC61800-9-2) | |

| Operating Point Frequency / Current | Absolute Loss | Relative Loss | Efficiency |
|--|------------------|------------------|------------|
| 0 / 25 % | 153 W | 0.5 % | 91.8 % |
| 0 / 50 % | 201 W | 0.6 % | 94.3 % |
| 0 / 100 % | 314 W | 1.0 % | 95.4 % |
| 50 / 25 % | 159 W | 0.5 % | 95.7 % |
| 50 / 50 % | 216 W | 0.7 % | 97.0 % |
| 50 / 100 % | 365 W | 1.1 % | 97.4 % |
| 90 / 50 % | 238 W | 0.7 % | 98.1 % |
| 90 / 100 % | 426 W | 1.3 % | 98.3 % |

| | |
|--------------------|---------------|
| Temperature Rating | Maximum 40 °C |
|--------------------|---------------|

| Technical UL | |
|---|-------|
| Output Current, Heavy-Duty Use (UL) | 23 A |
| Output Current, Light-Overload Use (UL) | 27 A |
| Output Current, Normal Use (UL) | - A |
| Output Power, Heavy-Duty Use (UL) | 20 Hp |
| Output Power, Light-Overload Use (UL) | 25 Hp |

| External Classifications and Standards | |
|--|--|
| ETIM 9 | EC001857 - Frequency converter =< 1 kV |
| UNSPSC | 39122001 |

| Environmental | |
|---------------|--|
| SCIP | f0f8bbef-ccd8-4255-ae30-7376e7d3d11c Finland |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

Categories

Drives → Low Voltage AC Drives → Industrial Drives → ACS880 Single Drives → ACS880-01 - Wall-mounted single drive

