

PRODUCT-DETAILS

ACS880-14-430A-7

LV AC industrial regenerative single drive module, IEC: Pn 400 kW, 430 A, 690 V, UL: Pld 450 Hp, 412 A (ACS880-14-430A-7)



| General Information | |
|-------------------------|--|
| Global Commercial Alias | ACS880-14-430A-7 |
| Product ID | 3AXD50000115310 |
| ABB Type Designation | ACS880-14-430A-7 |
| EAN | 6438177549475 |
| Catalog Description | LV AC industrial regenerative single drive module, IEC: Pn 400 kW, 430 A, 690 V, UL: Pld 450 Hp, 412 A (ACS880-14-430A-7) |
| Long Description | <p>The ACS880-14 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 compact ACS880-14 regenerative drive module captures and utilizes braking energy which results in cost savings for the user. With mechanical or resistor braking energy is wasted as heat and additional cooling is often required, whereas regenerative drive operation offers significant savings in energy consumption and cooling. The drive reaches a unity power factor, meaning that electrical energy is used to its full potential. Equipped with an active supply unit and integrated low harmonic line filter, the regenerative drive produces exceptionally low harmonic content. These modules are specifically designed for machine builders and systems integrators. Bookshelf and flat variants can easily be pushed inside the cabinet using a pedestal on wheels.</p> |

| Ordering | | |
|-------------------------|--|--|
| Country of Origin | Finland (FI) | |
| Customs Tariff Number | 85044085 | |
| Invoice Description | ACS880-14-430A-7 PN: 400 kW, IN: 430 A | |
| Made To Order | Yes | |
| Minimum Order Quantity | 1 piece | |
| Order Multiple | 1 piece | |
| Quote Only | No | |
| Selling Unit of Measure | piece | |

| Container Information | |
|-----------------------|----------|
| Gross Volume | 0.636 m³ |

| Dimensions | |
|--------------------------------|-----------|
| Product Net Weight | 365 kg |
| Product Net Depth / Length | 512 mm |
| Product Net Height | 1741 mm |
| Product Net Width | 713 mm |
| Package Level 1 Depth / Length | 1077.0 mm |
| Package Level 1 Height | 2050.0 mm |
| Package Level 1 Width | 650.0 mm |
| Package Level 1 Units | 1 carton |

| Technical | |
|----------------------------------|--|
| Number of Phases | 3 |
| Degree of Protection | IP20 |
| Enclosure Type NEMA | Open Type |
| Altitude | 4000 m |
| | 5 to 95 |
| Power Factor | 1.0 |
| Sound dB (A) | 75 dB(A) |
| Multiple Battery Information | Lithium Coin, CR2032, 220 mAh, 3 V, 2 pcs, 6 g |
| Frequency (f) | 47 ... 63 Hz |
| Frame Size | R11 |
| Input Voltage (U _{in}) | 525 ... 690 V |
| Mounting Type | Module for cabinet building |
| Communication Protocol | CAN DeviceNet EtherNet/IP MODBUS Other Bus Systems PROFIsafe PROFIBUS PROFINET IO TCP/IP |
| Number of Hardware Interfaces | Industrial Ethernet 0 Other 6 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, Heavy-Duty Use (I_{HD}) | 370 A |
| Output Current, Light-Overload Use (I_{LD}) | 420 A |
| Output Current, Normal Use (I_n) | 430 A |
| Output Power, Heavy-Duty Use (P_{HD}) | 355 kW |
| Output Power, Light-Overload Use (P_{LD}) | 400 kW |
| Output Power, Normal Use (P_n) | 400 kW |
| Apparent Power Output | 514 kV·A |
| Efficiency Level | IE2 |
| Standby Loss | 214 W |
| Complete Drive Module Efficiency (61800-9-2) | |

| Operating Point Frequency / Current | Absolute Loss | Efficiency | Relative Loss |
|--|------------------|------------|------------------|
| 0/25 % | 1713 W | 94.3 % | 0.3 % |
| 0/50 % | 2364 W | 96.0 % | 0.5 % |
| 0/100 % | 3733 W | 96.8 % | 0.7 % |
| 50/25 % | 1914 W | 96.8 % | 0.4 % |
| 50/50 % | 2791 W | 97.6 % | 0.5 % |
| 50/100 % | 5166 W | 97.7 % | 1.0 % |
| 90/50 % | 3763 W | 98.2 % | 0.7 % |
| 90/100 % | 8328 W | 98.0 % | 1.6 % |

| | |
|---------------------|--|
| Temperature Rating | Maximum +55 °C Minimum -15 °C |
| Ecodesign Exemption | Energy efficiency data is not provided for the drive. The regenerative drives are exempt from the EU ecodesign requirements (Regulation EU/2019/1781, §2.3.c). |

Additional Information

| | |
|-------------------|---------------------|
| Product Main Type | ACS880-14 |
| Product Name | Frequency converter |

Classifications

| | |
|--------|--|
| ETIM 8 | EC001857 - Frequency converter =< 1 kV |
| ETIM 9 | EC001857 - Frequency converter =< 1 kV |

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| Environmental | |
|---------------|---|
| SCIP | 7f3c52d9-0321-456d-a5b5-7fcf00de29a4 Finland (FI) |
| WEEE Category | 4. Large Equipment (Any External Dimension More Than 50 cm) |

| Categories |
|--|
| Drives → Low Voltage AC Drives → Industrial Drives → ACS880 drive modules → ACS880-14 - Regenerative single drive module |

