

PRODUCT-DETAILS

ACS880-34-430A-7

LV AC industrial ultra-low harmonic single drive module, IEC: Pn 400 kW, 430 A, 690 V, UL: Pld 450 Hp, 412 A (ACS880-34-430A-7)



| General Information | |
|-------------------------|--|
| Global Commercial Alias | ACS880-34-430A-7 |
| Product ID | 3AXD50000115389 |
| ABB Type Designation | ACS880-34-430A-7 |
| EAN | 6438177549758 |
| Catalog Description | LV AC industrial ultra-low harmonic single drive module, IEC: Pn 400 kW, 430 A, 690 V, UL: Pld 450 Hp, 412 A (ACS880-34-430A-7) |
| Long Description | <p>The ACS880-34 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 ACS880-34 ultra-low harmonic drive module produces exceptionally low harmonic content and exceeds the requirements set by low harmonic requirements. The drive includes an active supply unit and integrated low harmonic line filter, meaning there is no need for external filters, multi-pulse arrangements or special transformers. Other features include output voltage boost and power factor correction. These modules are specifically designed for machine builders and systems integrators. Bookshelf 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 | ACS880-34-430A-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

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|--------------------------------|-----------|
| 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 low-harmonic drives are exempt from the EU ecodesign requirements (Regulation EU/2019/1781, §2.3.d). |

Additional Information

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|-------------------|---------------------|
| Product Main Type | ACS880-34 |
| Product Name | Frequency converter |

Classifications

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|--------|--|
| ETIM 8 | EC001857 - Frequency converter =< 1 kV |
| ETIM 9 | EC001857 - Frequency converter =< 1 kV |
| UNSPSC | 39122001 |

| Environmental | |
|---------------|---|
| SCIP | 321d4ecf-abf4-4407-8959-f1db7a9ec077 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 → ACS880-34 - Ultra-low harmonic single drive module

