



 PRODUCT-DETAILS

ACS180-04S-12A6-4

LV AC machinery drive module, IEC: Pn 5.5 kW,
12.6 A, 400 V, UL: Pld 7.5 Hp, 11.0 A, 460 V
(ACS180-04S-12A6-4)



General Information

| | |
|-------------------------|--|
| Global Commercial Alias | ACS180-04S-12A6-4 |
| Product ID | 3AXD50000814077 |
| ABB Type Designation | ACS180-04S-12A6-4 |
| EAN | 6438177689836 |
| Catalog Description | LV AC machinery drive module, IEC: Pn 5.5 kW, 12.6 A, 400 V, UL: Pld 7.5 Hp, 11.0 A, 460 V (ACS180-04S-12A6-4) |

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|------------------|--|
| Long Description | The ACS180 is a compact and robust adaptable variable speed drive (VSD) for applications such as pumps, fans, compressors, conveyors, winders and mixers. This easy-to-use compact VSD offers excellent performance and quality at superior value with all essential machinery application features embedded. And as a member of ABB's all-compatible drives portfolio, it shares the same architecture and user interfaces for ease of use. |
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Ordering

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|-----------------------|---|
| Country of Origin | China (CN) Finland (FI) |
| Customs Tariff Number | 85044085 |
| HS Code | 850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters |

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|-------------------------|--|
| Invoice Description | ACS180-04S-12A6-4 PN: 5.5 kW, IN: 12.6 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 | 2.01 kg 4.431 lb |
| Product Net Depth / Length | 143 mm 5.630 in |
| Product Net Height | 230 mm 9.055 in |
| Product Net Width | 120 mm 4.724 in |
| Package Level 1 Depth / Length | 287 mm 11.299 in |
| Package Level 1 Height | 201 mm 7.913 in |
| Package Level 1 Width | 176 mm 6.929 in |

Technical

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|---|---|
| Number of Phases | 3 |
| Degree of Protection | IP20 |
| Enclosure Type NEMA | Open Type |
| Altitude | 1000 m 5 ... 95 |
| Power Factor | 0.98 |
| Multiple Battery Information | No battery / cell included |
| Frequency (f) | 47 ... 63 Hz |
| Frame Size | R2 |
| Input Voltage (U _{in}) | 380 ... 480 V |
| Mounting Type | Module |
| Communication Protocol | MODBUS |
| Number of Hardware Interfaces | Industrial Ethernet 0 Other 1 Parallel 0 PROFINET 0 RS-232 0 RS-422 0 RS-485 1 Serial TTY 0 USB 0 |
| Includes | Control unit PC connection |
| Analog Inputs | 2 |
| Analog Outputs | 1 |
| Number of Digital In/Outputs | 4 / 2 |
| Output Current, Heavy-Duty Use (I _{HD}) | 9.4 A |
| Output Current, Light- | 12.0 A |

| | |
|---|----------|
| Overload Use (I_{LD}) | |
| Output Current, Normal | 12.6 A |
| Use (I_n) | |
| Output Power, Heavy-Duty Use (P_{HD}) | 4 kW |
| Output Power, Light-Overload Use (P_{LD}) | 5.5 kW |
| Output Power, Normal Use (P_n) | 5.5 kW |
| Apparent Power Output | 8.7 kV-A |
| Efficiency Level | IE2 |
| Standby Loss | 12 W |
| Complete Drive Module Efficiency (61800-9-2) | |

| Operating Point Frequency / Current | Absolute Loss | Efficiency | Relative Loss |
|-------------------------------------|---------------|------------|---------------|
| 0/25 % | 54 W | 89.5 % | 0.6 % |
| 0/50 % | 66 W | 93.1 % | 0.8 % |
| 0/100 % | 105 W | 94.4 % | 1.2 % |
| 50/25 % | 57 W | 94.4 % | 0.7 % |
| 50/50 % | 74 W | 96.2 % | 0.8 % |
| 50/100 % | 125 W | 96.7 % | 1.4 % |
| 90/50 % | 85 W | 97.5 % | 1.0 % |
| 90/100 % | 157 W | 97.7 % | 1.8 % |

Temperature Rating Maximum 40 °C

Classifications

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

Environmental

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|---------------|--|
| SCIP | c4c7e908-d15d-4601-993d-bf271f952213 Finland (FI) |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

Additional Information

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|-------------------|---------------------|
| Product Main Type | ACS180-04S |
| Product Name | Frequency converter |

Categories

Drives → Low Voltage AC Drives → Machinery Drives → ACS180 - Machinery Drive

