



PRODUCT-DETAILS

# ACS580-01-023A-4

## LV AC general purpose wall-mounted drive, UL: Pld 15 Hp, 23 A, 500 V (ACS580-01-023A-4)



| General Information     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Global Commercial Alias | ACS580-01-023A-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product ID              | 3AUA0000204812                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ABB Type Designation    | ACS580-01-023A-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| EAN                     | 6438177450719                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Catalog Description     | LV AC general purpose wall-mounted drive, UL: Pld 15 Hp, 23 A, 500 V (ACS580-01-023A-4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Long Description        | The wall-mounted ACS580-01 is available as UL Type 1 (IP21), Type 12 (IP55) and Type 4X (IP66) designed for OEM and end users who value high quality and robustness in their applications. Coated control boards, high enclosure classes, and motor temperature monitoring ensure processes will run smoothly even in harsh conditions. This drive is part of ABB's all-compatible drives portfolio, sharing the same control panel, PC tools, parameter structure and communications options as the ACS380/180 and ACS880. Learn it once; use it everywhere. With both V/Hz and sensorless vector control supporting most motor types such as induction, permanent magnet, synchronous reluctance, and optimum pole motors the ACS580 is ideal for use on compressors, conveyors, pumps, extruders, centrifuges, mixers, fans and other variable and constant torque applications, in a variety of industries, including food and beverage, plastic, textile, material handling, and agriculture. |

| Ordering              |                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------|
| Customs Tariff Number | 85044080                                                                                                    |
| HS Code               | 850440 -- ELECTRICAL MACHINERY AND EQUIPMENT AND PARTS THEREOF; SOUND RECORDERS AND REPRODUCERS, TELEVISION |

IMAGE AND SOUND RECORDERS AND REPRODUCERS, AND PARTS AND  
ACCESSORIES OF SUCH ARTICLES;Electrical transformers, static converters  
(for example, rectifiers) and inductors;Static converters

|                         |                                      |
|-------------------------|--------------------------------------|
| Invoice Description     | ACS580-01-023A-4, PLd 15HP, I2LD 23A |
| Made To Order           | No                                   |
| Minimum Order Quantity  | 1 piece                              |
| Order Multiple          | 1 piece                              |
| Quote Only              | No                                   |
| Selling Unit of Measure | piece                                |

## Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Weight         | 15 lb    |
| Product Net Depth / Length | 9 in     |
| Product Net Height         | 18.62 in |
| Product Net Width          | 4.86 in  |
| Package Level 1 Units      | 1 carton |

## Technical

|                                                    |               |
|----------------------------------------------------|---------------|
| Number of Phases                                   | 3-phase       |
| Degree of Protection                               | IP21          |
| Enclosure Type NEMA                                | Type1         |
| Frequency (f)                                      | 50/60 Hz      |
| Frame Size                                         | R2            |
| Input Voltage ( $U_{in}$ )                         | 380 ... 500 V |
| Mounting Type                                      | Wall-mounting |
| Apparent Power Output                              | 19 kV·A       |
| Efficiency Level                                   | IE2           |
| Standby Loss                                       | 14 W          |
| Complete Drive Module<br>Efficiency (IEC61800-9-2) |               |

| Operating Point<br>Frequency / Current | Absolute<br>Loss | Relative<br>Loss | Efficiency |
|----------------------------------------|------------------|------------------|------------|
| 0 / 25 %                               | 118 W            | 0.6 %            | 89.5 %     |
| 0 / 50 %                               | 150 W            | 0.8 %            | 92.9 %     |
| 0 / 100 %                              | 258 W            | 1.4 %            | 93.8 %     |
| 50 / 25 %                              | 127 W            | 0.7 %            | 94.3 %     |
| 50 / 50 %                              | 166 W            | 0.9 %            | 96.1 %     |
| 50 / 100 %                             | 292 W            | 1.5 %            | 96.5 %     |
| 90 / 50 %                              | 179 W            | 0.9 %            | 97.6 %     |
| 90 / 100 %                             | 342 W            | 1.8 %            | 97.7 %     |

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

## Technical UL

|                                         |       |
|-----------------------------------------|-------|
| Output Current, Heavy-Duty Use (UL)     | 14 A  |
| Output Current, Light-Overload Use (UL) | 23 A  |
| Output Power, Heavy-Duty Use (UL)       | 10 Hp |
| Output Power, Light-Overload Use (UL)   | 15 Hp |

| Environmental |                                                            |
|---------------|------------------------------------------------------------|
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

| External Classifications and Standards |          |
|----------------------------------------|----------|
| UNSPSC                                 | 39122001 |

| Categories                                                                               |
|------------------------------------------------------------------------------------------|
| Drives → Low Voltage AC Drives → General Purpose Drives → ACS580-01 - Wall-mounted drive |

