

PRODUCT-DETAILS

ACS880-01-087A-3

ACS880-01-087A-3 Pcont.max:45kW,
Icont.max:83A



General Information

Global Commercial Alias	ACS880-01-087A-3
Product ID	3AUA0000108023
ABB Type Designation	ACS880-01-087A-3
Catalog Description	ACS880-01-087A-3 Pcont.max:45kW, Icont.max:83A

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.

Long Description

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.

Ordering

Country of Origin	Finland (FI)
Customs Tariff Number	85044088
Invoice Description	ACS880-01-087A-3 Pcont.max:45kW, Icont.max:83A
Made To Order	Yes
Minimum Order Quantity	1 piece
Order Multiple	1 piece

Quote Only	No
Selling Unit of Measure	piece

Dimensions

Product Net Height	732 mm
Product Net Length	274 mm
Product Net Width	203 mm
Package Level 1 Depth / Length	890 mm
Package Level 1 Height	340 mm
Package Level 1 Width	300 mm
Package Level 1 Units	1 carton

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Frequency (f)	50/60 Hz
Input Voltage (U _{in})	380 ... 415 V
Mounting Type	Wall-mounted
Communication Protocol	MODBUS DeviceNet PROFIBUS PROFIsafe CAN EtherNet/IP PROFINET IO TCP/IP Other Bus Systems
Number of Hardware Interfaces	Industrial Ethernet 0 PROFINET 0 RS-232 0 RS-422 0 RS-485 1 Serial TTY 0 USB 1 Parallel 0 Other 6
Includes	With control unit Without optical interface With PC connection
Analog Inputs	2
Analog Outputs	2
Number of Digital In/Outputs	6/5
Output Current, Heavy-Duty Use	72 A
Output Current, Light-Overload Use	83 A
Output Current, Normal Use	87 A
Output Power, Heavy-Duty Use	37 kW
Output Power, Light-Overload Use	45 kW
Output Power, Normal Use	45 kW
Apparent Power Output	60 kV·A
Efficiency Level	IE2
Standby Loss	30 W

Complete Drive Module
Efficiency (61800-9-2)

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	271 W	0.4 %	92.4 %
0 / 50 %	390 W	0.6 %	94.2 %
0 / 100 %	700 W	1.2 %	94.7 %
50 / 25 %	296 W	0.5 %	95.8 %
50 / 50 %	444 W	0.7 %	96.7 %
50 / 100 %	840 W	1.4 %	96.9 %
90 / 50 %	534 W	0.9 %	97.8 %
90 / 100 %	1129 W	1.9 %	97.6 %

Temperature Rating Maximum 40 °C

Additional Information

Product Main Type	ACS880-01-087A-3
Product Name	Frequency Converter

Classifications

Product Series	ACS880
ETIM 7	EC001857 - Frequency converter =< 1 kV
UNSPSC	39122001

Environmental

SCIP	86747225-0c21-49aa-b6ea-31ca7c4cb393 Finland (FI)
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

Categories

Drives → Low voltage AC drives → Industrial drives → ACS880 single drives → ACS880-01 - Wall-mounted single drive



