

PRODUCT-DETAILS

ACS880-11-045A-3

LV AC industrial wall-mounted regenerative single drive, IEC: Pn 22 kW, 45 A, 400 V (ACS880-11-045A-3)



General Information	
Global Commercial Alias	ACS880-11-045A-3
Product ID	3AXD50000047496
ABB Type Designation	ACS880-11-045A-3
EAN	6438177547815
Catalog Description	LV AC industrial wall-mounted regenerative single drive, IEC: Pn 22 kW, 45 A, 400 V (ACS880-11-045A-3)
Long Description	<p>The ACS880-11 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. The ACS880-11 is a compact and complete regenerative drive solution with everything you need for regenerative operation in cyclic or continuous braking applications.</p> <p>With regenerative functionality, the braking energy of the motor is returned to the drive and distributed to the supply network so that it can be utilized by other equipment. 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.</p>

Ordering	
Country of Origin	Finland (FI)
Customs Tariff Number	85044085
Invoice Description	ACS880-11-045A-3 PN: 22 kW, IN: 45 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	74.22 dm³

Dimensions	
Product Net Weight	52 kg 114.640 lb
Product Net Depth / Length	382 mm 15.039 in
Product Net Height	771 mm
Product Net Width	252 mm 9.921 in
Package Level 1 Depth / Length	992 mm 39.055 in
Package Level 1 Height	598 mm 23.543 in
Package Level 1 Width	400.0 mm 15.748 in
Package Level 1 Units	1 carton

Technical	
Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	4000 m 5 to 95
Power Factor	1.0
Sound dB (A)	71 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 2 pcs, 6 g
Frequency (f)	47 ... 63 Hz
Frame Size	R6
Input Voltage (U _{in})	380 ... 415 V
Mounting Type	Wall-mounted
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})	38 A
Output Current, Light-Overload Use (I_{LD})	43 A
Output Current, Normal Use (I_n)	45 A
Output Power, Heavy-Duty Use (P_{HD})	18.5 kW
Output Power, Light-Overload Use (P_{LD})	22 kW
Output Power, Normal Use (P_n)	22 kW
Apparent Power Output	31 kV·A
Efficiency Level	IE2
Standby Loss	49 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	249 W	87.3 %	0.8 %
0/50 %	310 W	91.5 %	1.0 %
0/100 %	470 W	93.4 %	1.5 %
50/25 %	276 W	92.6 %	0.9 %
50/50 %	368 W	94.7 %	1.2 %
50/100 %	619 W	95.5 %	2.0 %
90/50 %	477 W	96.2 %	1.5 %
90/100 %	1114 W	95.5 %	3.6 %

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	ACS880-11
Product Name	Frequency converter

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

Environmental		
SCIP	2e5fdce1-7092-448c-9584-f0fd2b6a9f47 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 → ACS880-11 - Wall-mounted regenerative single drive		

