



Toase-ehe Park Sanati Gohar Ofogh
Petrochemical Co.
**CONCEPTUAL, BASIC and DETAIL DESIGN
ENGINEERING OF STYRENE PARK OFFSITE**



dttdamafin
thermal technology

Document Title: VFD Data Sheet

Document No.: EI027-DMF-VD-EL-DSH-042

Rev. R0

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STYRENE PARK OFFSITE

Document Title:
VFD Data Sheet

R0	17-09-2024	IFA	F.Aghaienezhad	J.Beigloo	A.Gholizadeh
Rev.	Issued Date	DESCRIPTION	PREPARED	CHECKED	APPROVED

 	Toase-ehe Park Sanati Gohar Ofogh Petrochemical Co. CONCEPTUAL, BASIC and DETAIL DESIGN ENGINEERING OF STYRENE PARK OFFSITE		 	
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REVISION RECORD SHEET

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PRODUCT-DETAILS

ACS880-01-025A-3

LV AC industrial wall-mounted single drive, IEC: Pn 11 kW, 25 A, 400 V (ACS880-01-025A-3)



General Information	
Global Commercial Alias	ACS880-01-025A-3
Product ID	3AUA0000107992
ABB Type Designation	ACS880-01-025A-3
EAN	6438177557197
Catalog Description	LV AC industrial wall-mounted single drive, IEC: Pn 11 kW, 25 A, 400 V (ACS880-01-025A-3)
Long Description	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. 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	85044085
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACS880-01-025A-3 PN: 11.0 kW, IN: 25 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	8.4 kg 18.519 lb
Product Net Depth / Length	249 mm 9.803 in
Product Net Height	409 mm
Product Net Width	155 mm 6.102 in
Package Level 1 Depth / Length	574 mm
Package Level 1 Height	304 mm
Package Level 1 Width	256 mm
Package Level 1 Units	1 carton

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	4000 m 5 ... 95
Sound dB (A)	59 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 2 pcs, 6 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R2
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
Number of Hardware Interfaces	Industrial Ethernet 0 Other 4 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})	17 A
Output Current, Light-Overload Use (I_{LD})	24 A
Output Current, Normal Use (I_n)	25 A
Output Power, Heavy-Duty Use (P_{HD})	7.5 kW
Output Power, Light-Overload Use (P_{LD})	11 kW
Output Power, Normal Use (P_n)	11 kW
Apparent Power Output	17 kV·A
Efficiency Level	IE2
Standby Loss	23 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	126 W	0.7 %	87.9 %
0 / 50 %	168 W	1.0 %	91.3 %
0 / 100 %	301 W	1.7 %	92.2 %
50 / 25 %	135 W	0.8 %	93.4 %
50 / 50 %	185 W	1.1 %	95.2 %
50 / 100 %	342 W	2.0 %	95.6 %
90 / 50 %	203 W	1.2 %	97.0 %
90 / 100 %	412 W	2.4 %	97.0 %

Temperature RatingMaximum 40 °C

Classifications

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

Environmental

SCIP	090be974-b30f-4eaa-b924-275d6a7f6686 Finland (FI)
Simplified SCIP	05ba9c4c-0f14-4b63-8f0d-9dfe97cea5ce Belgium (BE) fe7f4acc-a128-4e0d-bb0e-9401a4fbb99c Netherlands (NL) c8260a35-2ae0-4c51-8f1f-f45f223f38d1 Denmark (DK) 2ba4b589-d362-4a71-960c-db11fa23c371 Spain (ES) 16d426ed-87d2-41b8-a6a6-becce45ad9b6 Portugal (PT) 83eb23c1-e520-4509-b458-e0f3f5d3e025 Estonia (EE)

WEEE Category5. Small Equipment (No External Dimension More Than 50 cm)

Additional Information

Product Name	Frequency converter
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Categories

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

