



PRODUCT-DETAILS

ACS580-04-650A-4

LV AC general purpose drive module, IEC: Pn 355 kW, 650 A, 400 V, UL: Pld 500 Hp, 623 A, 480 V (ACS580-04-650A-4)



General Information

Global Commercial Alias	ACS580-04-650A-4
Product ID	3AUA0000170522
ABB Type Designation	ACS580-04-650A-4
EAN	6438177340447
Catalog Description	LV AC general purpose drive module, IEC: Pn 355 kW, 650 A, 400 V, UL: Pld 500 Hp, 623 A, 480 V (ACS580-04-650A-4)

The ACS580-04 is plug-in ready to control your compressors, conveyors, pumps, extruders, centrifuges, mixers, fans and many other variable and constant torque applications, in a variety of light industries, including food and beverage, plastic, textile, material handling, and agriculture.

All essential features are built-in as standard, simplifying drive selection, and making additional hardware unnecessary. Versatile and straightforward settings menu and assistants enable fast setup, commissioning, use and maintenance, while rugged and robust design makes it a good fit for various environments. With the ACS580 drives you can easily take full control of your processes to comprehensively manage your plant. The ACS580-04 drive module comes in IP00 enclosure as standard for cabinet installation. Also, IP20 enclosure is available.

Ordering

Country of Origin	Finland (FI)
Customs Tariff Number	85044086
Invoice Description	ACS580-04-650A-4 PN: 355 kW, IN: 650 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	270.689 dm³
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Dimensions

Product Net Weight	161 kg 354.945 lb
Product Net Depth / Length	529 mm 20.827 in
Product Net Height	1462 mm 57.559 in
Product Net Width	350 mm 13.780 in
Package Level 1 Depth / Length	2060.00 mm 81.102 in
Package Level 1 Height	500.00 mm 19.685 in
Package Level 1 Width	670.00 mm 26.378 in
Package Level 1 Units	1 carton

Technical

Number of Phases	3
Degree of Protection	IP00
Enclosure Type NEMA	Open Type
Altitude	1000 m
	95
Sound dB (A)	72 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R10
Input Voltage (U _{in})	380 ... 480 V
Mounting Type	Module for cabinet building
Communication Protocol	CAN DeviceNet EtherNet/IP MODBUS Other Bus Systems PROFIBUS PROFINET IO TCP/IP
Number of Hardware Interfaces	Industrial Ethernet 0 Other 2 Parallel 2 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 / 3

Output Current, Heavy-Duty Use (I_{HD})	477 A
Output Current, Light-Overload Use (I_{LD})	634 A
Output Current, Normal Use (I_n)	650 A
Output Power, Heavy-Duty Use (P_{HD})	250 kW
Output Power, Light-Overload Use (P_{LD})	355 kW
Output Power, Normal Use (P_n)	355 kW
Apparent Power Output	450 kV·A
Efficiency Level	IE2
Standby Loss	423 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	2143 W	93.1 %	0.4 %
0/50 %	3094 W	94.8 %	0.6 %
0/100 %	5693 W	95.2 %	1.1 %
50/25 %	2306 W	96.3 %	0.4 %
50/50 %	3445 W	97.2 %	0.6 %
50/100 %	6585 W	97.3 %	1.2 %
90/50 %	3956 W	98.2 %	0.7 %
90/100 %	8046 W	98.1 %	1.5 %

Temperature Rating	Maximum 40 °C Minimum -15 °C
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Additional Information

Product Main Type	ACS580-04
Product Name	Frequency converter

Classifications

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

Environmental

SCIP	58f22844-2faf-42d0-845e-c7388e32f3e4 Finland (FI)
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

Categories

Drives → Low Voltage AC Drives → General Purpose Drives → ACS580-04 - Drive module

