

# HOLLYFUSE 14GPV5U15 – 5A, 1500V DC Cylindrical gPV Fuse (14x51mm)

The HOLLYFUSE 14GPV5U15 is a compact 14x51mm cylindrical gPV fuse rated at 1500V DC and 5A, engineered for high-performance protection in solar photovoltaic systems and inverter installations.

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## Specifications

Parameter	Details
Part Number	14GPV5U15
Manufacturer	HOLLYLAND (HOLLYFUSE)
Current Rating	5A
Voltage Rating	1500V DC
Size	14x51mm
Operating Class	gPV
Breaking Capacity	30kA
Compliance	IEC 60269-6, RoHS Compliant

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## Applications

Use Case	Function
Solar PV String Protection	Overcurrent protection in PV arrays
DC Input for Inverters	Safe circuit protection at inverter inputs
Combiner Boxes	Fuse protection in combined DC circuits
Utility-Scale & Commercial Installations	High-voltage safety in large-scale solar plants
Residential Solar Systems	Safe operation of home-based PV setups
Inverter Maintenance	Spare component for service and repairs

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## Features

Feature	Benefit
High Voltage Rating (1500V DC)	Suitable for modern high-voltage PV systems
Compact Cylindrical Design	Easy integration into fuse holders
Harsh Environment Reliability	Performs under extreme solar conditions
Fast-Acting Protection	Rapid response to overloads and short circuits
Competitive Alternative	Trusted substitute for Mersen and Littelfuse

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IBS Electronics is a global distributor of HOLLYFUSE components, supporting renewable energy, solar O&M, and inverter manufacturers with high-quality, cost-effective PV fuse solutions.

# PHOENIX CONTACT 2320539 | 24V DC, 5A DIN Rail QUINT Buffer Module

The PHOENIX CONTACT 2320539 is a 24V DC, 5A DIN rail-mounted QUINT buffer module designed for reliable energy storage and uninterrupted power backup in industrial automation systems.

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## Specifications

Parameter	Details
Voltage Rating	24V DC
Current Rating	5A
Energy Storage	4KJ
Mounting Type	DIN rail
Technology	Double-layer capacitors

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## Applications

Industry Use	Purpose
Industrial Automation	Backup for power supply interruptions
PLC Systems	Buffering for logic controllers
Machinery Control Systems	Stable power during outages

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## Features

Feature	Benefit
Maintenance-free Design	No battery replacement required
Rapid Charge/Discharge	Ensures quick energy availability
Compact Form Factor	Saves panel space
Seamless QUINT Integration	Plug-and-play with QUINT power supplies

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IBS Electronics is a global distributor of PHOENIX CONTACT components.

# EATON N4-4-1250-S15-DC | 1250A, 1500V DC DIN Rail Switch-Disconnecter

The EATON N4-4-1250-S15-DC, part of the Eaton Moeller NZM series, is a high-capacity switch-disconnector rated at 1250A and 1500V DC, designed for reliable power isolation in industrial and utility applications.

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## Specifications-4

Parameter	Details
Product Name	Eaton Moeller series NZM Switch-Disconnecter
Part Number (MPN)	N4-4-1250-S15-DC
Catalog Number	166415
EAN	4015081629237
Voltage Rating	1500V DC
Current Rating	1250A
Mounting Type	DIN rail
Product Length/Depth	401 mm
Product Height	207 mm
Product Width	280 mm
Product Weight	22 kg
Compliance	RoHS conform
Certifications	IEC

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## Applications

Industry Use	Purpose
Open Areas	Power isolation in exposed installations
Utility Buildings	Main disconnect for high-voltage equipment
Industrial Facilities	DC switching and safety disconnection
Renewable Energy Systems	Isolation in large-scale solar or battery setups

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## Features

Feature	Benefit
IEC/EN 60947-3 Certification	Meets international safety and performance standards

<b>Feature</b>	<b>Benefit</b>
Positive Drive Mechanism (IEC/EN 60204, VDE 0113)	Ensures safe mechanical operation
Isolating Characteristics to VDE 0660	Reliable separation during maintenance
Compatibility with Shunt/Auxiliary Accessories	Flexible integration with NZM series accessories
DC Switching with Series-Connected Contacts	Enhanced arc suppression for DC applications
Screw Connection Box Terminal (Standard)	Secure and easy installation
Designed for Ungrounded (IT) Systems	Prevents double ground fault conditions
Mechanical Lifespan with Shunt Release Capability	Long service life under demanding operations

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IBS Electronics is a global distributor of EATON components.

# PHOENIX CONTACT 2866763 | 24V DC, 10A DIN Rail QUINT POWER Supply

The PHOENIX CONTACT 2866763 is a high-performance DIN rail-mounted QUINT POWER supply delivering 24V DC at 10A, featuring advanced SFB technology, POWER BOOST, and preventive monitoring for maximum system availability in industrial automation.

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## Specifications

Parameter	Details
Manufacturer	PHOENIX CONTACT
Part Number (MPN)	2866763
Output Voltage	24V DC
Output Current	10A
Input Type	1-phase
Technology	SFB (Selective Fuse Breaking), POWER BOOST
Efficiency	> 92.5% (at 230V AC nominal)
Insulation Voltage (I/O)	4 kV AC (type test), 2 kV AC (routine test)
Protection Class	I
MTTF / MTBF	> 940,000 h (25°C), > 530,000 h (40°C), > 230,000 h (60°C)
Mounting Type	Horizontal DIN rail NS 35, EN 60715
Net Weight	1.1 kg
Compliance & Certifications	RoHS, IEC, UL Listed UL 508, UL 60950-1, CSA, GL, DNV, ABS, LR, RINA, NK, BV, SEMI F47

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## Applications

Industry Use	Purpose
Industrial Automation	Reliable power for PLCs, sensors, and control systems
Machine Building	Stable operation and rapid circuit breaker tripping
Process Control Systems	Continuous operation with preventive function monitoring
Renewable Energy Systems	High-efficiency DC power conversion
Transportation & Rail	Approved for EN 50121-4 rail applications
Marine & Shipbuilding	Certified for GL, DNV, ABS, LR, RINA, NK, BV compliance

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## Features

<b>Feature</b>	<b>Benefit</b>
SFB Technology (6x nominal current for 12 ms)	Fast tripping of standard circuit breakers for selective protection
POWER BOOST (1.5x nominal current)	Reliable starting of heavy and difficult loads
Preventive Function Monitoring	Detects critical states before failures occur
Adjustable Output Voltage (5V DC to 56V DC)	Flexible use in varied applications
High Efficiency > 92.5%	Reduced energy loss and heat generation
Wide Certification Range	Suitable for global, marine, rail, and hazardous environments
Compact DIN Rail Design	Easy integration into control cabinets

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IBS Electronics is a global distributor of PHOENIX CONTACT components.

# PHOENIX CONTACT 2900576 | Hybrid Motor Starter, 500V AC, 9A, 24V DC Control, Screw Connection

The PHOENIX CONTACT 2900576 is a compact 22.5 mm-wide hybrid motor starter designed for reversing 3-phase AC motors up to 500V AC and 9A, featuring adjustable overload shutdown, space-saving design, and long service life for industrial motor control applications.

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## Specifications

Parameter	Details
Manufacturer	PHOENIX CONTACT
Part Number (MPN)	2900576
Type	Hybrid motor starter
Motor Type	3-phase AC motors
Rated Operating Voltage (Ue)	500V AC
Output Current Range	1.5A – 9A
Control Voltage	24V DC (range 19.2–30V DC)
Overload Protection	Adjustable bimetal function up to 9A
Switching Frequency	≤ 2 Hz (load-dependent)
Power Dissipation	Max. 7 W
Mounting Type	Vertical on horizontal DIN rail (motor output below)
Dimensions (W x H x D)	22.5 mm × 99 mm × 114.5 mm
Protection Degree	IP20
Operating Temperature	-25°C to +70°C (derating applies)
Storage Temperature	-40°C to +80°C
Approvals & Certifications	UL Listed, cUL Listed, IEC CB Scheme, EAC, cULus Listed

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## Applications

Industry Use	Purpose
Industrial Automation	Reversing and controlling 3-phase motors
Conveyor Systems	Direction control with overload protection
Pump and Fan Control	Reliable operation in continuous-duty environments
Machine Building	Space-saving motor starting in control panels
Process Control Equipment	Precise motor operation with quick reversing capability

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## Features

<b>Feature</b>	<b>Benefit</b>
22.5 mm Compact Width	Saves space in control cabinets
Hybrid Technology	Extends service life and reduces maintenance
Adjustable Overload Shutdown	Protects motors up to 9A
Integrated 3-Phase Loop Bridges	Simplifies wiring and installation
LED Indicators (Green, Yellow, Red)	Provides clear operational and fault status
Reversing Function	Enables quick change of motor direction
Screw Connection	Ensures secure electrical connections

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IBS Electronics is a global distributor of PHOENIX CONTACT components.

# PHOENIX CONTACT 2904371 | UNO POWER Power Supply, 24V DC, 90W, DIN Rail Mount, 2-Phase Input

The PHOENIX CONTACT 2904371 UNO POWER is a compact, high-efficiency primary-switched power supply for DIN rail mounting, delivering 24V DC at 90W output. Designed for space-limited control cabinets, it offers over 90% efficiency, low idle losses, and reliable performance in industrial and outdoor applications.

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## Specifications

Parameter	Details
Manufacturer	PHOENIX CONTACT
Part Number (MPN)	2904371
Series	UNO POWER
Type	Primary-switched power supply
Input Voltage Range	2× 264 V AC ... 575 V AC
Nominal Input Voltage Range	2× 400 V AC ... 500 V AC
AC Frequency	45 Hz ... 65 Hz
Nominal Output Voltage	24V DC ±1%
Output Current	3.75A (nominal), 3.38A (with derating)
Output Power	90W
Efficiency	> 89.5%
Power Dissipation (No Load)	< 0.7W
Mounting	Horizontal DIN rail NS 35, EN 60715
Dimensions (W × H × D)	55 mm × 90 mm × 84 mm
Net Weight	0.32 kg
Protection Degree	IP20
Operating Temperature	-25°C to +70°C (derating above 55°C at 2.5%/K)
Storage Temperature	-40°C to +85°C
Standards & Certifications	UL Listed, cUL Listed, UL 508, UL 60950, NEC Class 2, CB Scheme, IEC 60950-1, EN 61000 series

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## Applications

<b>Industry Use</b>	<b>Purpose</b>
Industrial Automation	Powering PLCs, sensors, and control systems
Compact Control Panels	Space-efficient power conversion for low to medium loads
Outdoor Installations	Reliable operation across wide temperature ranges
Process Control Equipment	Stable DC supply for instrumentation and monitoring devices
Semiconductor Manufacturing	Meets voltage dip tolerance requirements (EN 61000-4-11)

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## Features

<b>Feature</b>	<b>Benefit</b>
DIN Rail Mounting	Quick, tool-free installation
High Power Density	Up to 20% more space in the control cabinet
Energy Efficiency > 90%	Reduced operational costs and heat generation
Low Idle Losses (< 0.3W)	Energy savings during standby
Wide Temperature Range (-25°C to +70°C)	Suitable for indoor and outdoor use
Integrated Transient Surge Protection	Enhanced durability in noisy electrical environments
Compliance with Multiple International Standards	Supports global deployment

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IBS Electronics is a global distributor of PHOENIX CONTACT components.

# PHOENIX CONTACT 2904598 | QUINT POWER Supply, 24V DC, 2.5A, 60W, DIN Rail Mount, 1-Phase Input

The PHOENIX CONTACT 2904598 QUINT POWER is a high-performance primary-switched power supply for DIN rail mounting, delivering 24V DC at 2.5A (60W) output. It provides exceptional system availability with preventative function monitoring, dynamic power reserves, and compact design for control cabinets in industrial automation and low-power applications.

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## Specifications

Parameter	Details
Manufacturer	PHOENIX CONTACT
Part Number (MPN)	2904598
Series	QUINT POWER
Type	Primary-switched power supply
Mounting	DIN rail, screw connection
Input Voltage Range	100 V AC ... 240 V AC (-15% / +10%) 110 V DC ... 250 V DC (-20% / +40%)
Nominal Output Voltage	24V DC (adjustable 24V ... 28V DC)
Nominal Output Current	2.5A
Output Power	60W
Static Boost	3.125A ( $\leq 40^{\circ}\text{C}$ )
Dynamic Boost	5A ( $\leq 60^{\circ}\text{C}$ for 5 s)
Efficiency	91.9% (120 V AC) 92.6% (230 V AC)
Residual Ripple	$< 40$ mVPP
Inrush Current	Typ. 10A ( $25^{\circ}\text{C}$ )
Mains Buffering	$> 54$ ms (120 V AC / 230 V AC)
Protection Class	II
Degree of Protection	IP20
Operating Temperature	$-25^{\circ}\text{C}$ ... $+70^{\circ}\text{C}$ (derating above $60^{\circ}\text{C}$ at 2.5%/K)
Humidity (Max.)	$\leq 95\%$ RH ( $25^{\circ}\text{C}$ , non-condensing)
Installation Height	$\leq 5000$ m (derating above 2000 m)
Dimensions (W $\times$ H $\times$ D)	Compact DIN rail form factor
Net Weight	0.244 kg
Standards & Approvals	UL Listed / cUL Listed / CB Scheme / DNV GL / cULus

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## Applications

<b>Industry Use</b>	<b>Purpose</b>
Industrial Automation	Reliable DC supply for PLCs, HMIs, sensors, and actuators
Control Cabinet Integration	Space-saving design for compact enclosures
Process Control Systems	Stable output for instrumentation and monitoring devices
Marine & Offshore	Approved for harsh industrial and maritime environments
Low-Power Industrial Loads	Efficient and dependable power for devices under 100W

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## Features

<b>Feature</b>	<b>Benefit</b>
Dynamic Boost (up to 200% nominal current)	Enables starting of heavy loads without voltage drop
Preventative Function Monitoring	Alerts operators to critical states before failure
High Efficiency (> 92%)	Reduces energy losses and heat generation
Adjustable Output Voltage (24–28V DC)	Flexible configuration for varied applications
Parallel & Series Connection Capability	Supports redundancy or increased capacity
Integrated Surge Protection (Varistor)	Safeguards against transient overvoltages
Compact DIN Rail Design	Saves control cabinet space

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IBS Electronics is a global distributor of PHOENIX CONTACT components.

# PHOENIX CONTACT 2961105 | Miniature Relay, PDT Contacts, 6A, Plug-In, Compact Form Factor

The PHOENIX CONTACT 2961105 is a plug-in miniature relay with PDT (Form C) contacts, designed for switching loads up to 6A. Its compact, 5 mm-wide housing offers high operational safety, 4 kVrms isolation, and suitability for a wide range of industrial control, automation, and interface applications.

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## Specifications

Parameter	Details
Manufacturer	PHOENIX CONTACT
Part Number (MPN)	2961105
Contact Configuration	PDT (Form C)
Rated Load	Up to 250 V AC / 6 A
Coil Voltage Options	4.5 V DC, 12 V DC, 18 V DC, 24 V DC, 60 V DC
Typical Input Current (at UN)	38 mA (4.5 V DC), 14 mA (12 V DC), 9 mA (18 V DC), 7 mA (24 V DC), 3 mA (60 V DC)
Response Time (typical)	5 ms
Release Time (typical)	2.5 ms
Coil Resistance (20°C)	119 Ω, 848 Ω, 1906 Ω, 3390 Ω, 20500 Ω (±10–15% depending on voltage)
Electrical Isolation	4 kVrms between coil and contacts
Operating Temperature Range	-40°C to +85°C
Nominal Operating Mode	100% operating factor
Mechanical Life	20 million cycles
Protection Degree	Up to IP67 (depending on type)
Standards & Compliance	IEC 60255, EN 50178, EN 60730, IEC 60664, VDE standards
Mounting	Any position, no spacing required
Contact Material	Cadmium-free (gold plating optional)

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## Applications

Industry Use	Purpose
PLC Systems	Output switching for automation controllers
Interface Technology	Reliable signal and load switching between control and field levels

<b>Industry Use</b>	<b>Purpose</b>
Measuring & Control Technology	Relay interface for measurement devices and control modules
Timer Relays	Precision switching in time-delay relay applications
Bus I/O Modules	Integration into modular automation systems

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## Features

<b>Feature</b>	<b>Benefit</b>
Compact 5 mm Width	Saves space in control panels and modular systems
High Operational Safety	Ensures reliable performance in demanding industrial environments
Cadmium-Free Power Contacts	Environmentally friendly and compliant with modern safety standards
Optional Gold-Plated Contacts	Ideal for low-power signal switching (mA levels)
4 kVrms Electrical Isolation	Protects sensitive control circuitry from high-voltage transients
Safe Isolation per EN 50178	Meets rigorous safety standards for industrial equipment
IP67 Protection (depending on model)	Allows use in environments with dust and moisture exposure
Versatile Mounting	Can be installed in any orientation without spacing requirements

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IBS Electronics is a global distributor of PHOENIX CONTACT components.

# STAUBLI 32.0016P0001-UR | MC4 Jack Connector, 1 kV / 39 A, 4.0–6.0 mm<sup>2</sup> Cable, Crimp Type

The STAUBLI 32.0016P0001-UR is a high-performance MC4 jack connector designed for 4.0–6.0 mm<sup>2</sup> cables with outer diameters of 5.9–8.8 mm. Built with proven MULTILAM technology for long-term stability, it delivers low contact resistance, high current capacity, and compliance with global PV and safety standards.

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## Specifications

Parameter	Details
Manufacturer	STAUBLI
Part Number (MPN)	32.0016P0001-UR
Connector Type	MC4 Jack (PV-KBT4/6II-UR)
Cable Cross-Section	4.0–6.0 mm <sup>2</sup>
Cable Outer Diameter	5.9–8.8 mm
Rated Voltage (IEC)	1100 V DC
Rated Voltage (UL)	1500 V DC
Rated Current (IEC)	39 A
Rated Current (UL)	35 A (AWG 12), 50 A (AWG 10)
Contact Resistance (max)	0.25 mΩ
Contact Material	Copper, tin-plated
Connection Type	Crimp
Insulation Material	PC/PA
Ambient Temperature Range	-40°C to +85°C (TÜV/UL)
Upper Limiting Temperature	105°C
Degree of Protection (mated)	IP65 / IP68 (1 m, 1 h)
Degree of Protection (unmated)	IP2X
Rated Impulse Voltage	16 kV
Locking System	Locking Type (tool required per NEC 2023)
Fire Protection Class	UL94 V-0
Environmental Resistance	Ammonia resistant, salt mist spray tested (degree of severity 6)
Compliance	RoHS-compliant, lead-free
Standards	IEC 62852, UL 6703, CSA C22.2 No. 182.5, TÜV 2 PfG 2330

<b>Parameter</b>	<b>Details</b>
Certifications	TÜV R 60127190, R 60087448; UL E343181; CQC20024256431; JET B19T0013

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## Applications

<b>Industry</b>	<b>Usage</b>
Photovoltaic Systems	Reliable DC connections for solar panels and strings
Renewable Energy Installations	Integration into high-voltage PV arrays
Outdoor Power Systems	Weatherproof and UV-resistant DC connections
Industrial DC Power Distribution	Low-loss connections in harsh environments
Custom Cable Assemblies	Available as ready-made leads per customer specifications

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## Features

<b>Feature</b>	<b>Benefit</b>
MULTILAM Contact Technology	Ensures consistently low contact resistance over the product lifetime
High Voltage & Current Ratings	Approved for up to 1500 V DC and 50 A under UL standards
Long-Term Reliability	Over 25 years of proven MC4 connector field performance
Wide Cable Compatibility	Accepts 4–6 mm <sup>2</sup> cables with 5.9–8.8 mm outer diameters
Robust Environmental Protection	IP65/IP68 sealing, ammonia resistance, salt mist tested
Safety Compliant	Requires tool for opening per NEC 2023, enhancing system safety
Flexible Assembly Options	Available for field assembly or as pre-made cable assemblies

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IBS Electronics is a global distributor of STAUBLI components.

# EBM-PAPST 6318/2TDH4P – 48VDC, 172mm Axial Fan, High-Efficiency 3-Phase Drive

The **EBM-PAPST 6318/2TDH4P** is a high-performance 3-phase axial fan designed for efficient cooling in demanding industrial and electronic applications, delivering smooth operation, long service life, and robust motor protection.

## Specifications

<b>Parameter</b>	<b>Value</b>
Nominal Voltage	48 VDC
Voltage Range	36–72 VDC
Speed	9200 RPM
Power Consumption	150 W
Air Flow	930 m <sup>3</sup> /h
Min. Ambient Temperature	-20 °C
Max. Ambient Temperature	75 °C
Sound Power Level	8.4 B
Sound Pressure Level	75 dB(A)
Dimensions	Ø 172 × 51 mm
Weight	0.910 kg
Impeller Material	Glass-fiber reinforced PA plastic
Housing Material	Die-cast aluminum
Airflow Direction	Exhaust over struts
Rotation Direction	Counterclockwise (viewed toward rotor)
Bearing Type	Ball bearing
Service Life (L10 @ 40 °C)	52,500 h
Service Life (L10 @ Max Temp)	20,000 h
Motor Protection	Reverse polarity & blocked rotor
Cable	Leads AWG 18/20/22, TR 64, speed signal & control input

## Applications

<b>Industry</b>	<b>Use Case</b>
Industrial Automation	Cabinet and enclosure cooling
Telecommunications	Base station thermal management
Power Electronics	Inverter and rectifier cooling
HVAC Systems	High-efficiency air circulation
Renewable Energy	Cooling for wind and solar inverters

## Features

<b>Feature</b>	<b>Benefit</b>
High-efficiency 3-phase drive	Reduced energy consumption
Smooth operation	Low vibration and noise
Wide voltage range (36–72 VDC)	Flexible integration
Robust housing and impeller	Durable in harsh environments
Long service life bearings	Reduced maintenance downtime
Integrated motor protection	Enhanced operational safety

IBS Electronics is a global distributor of EBM-PAPST components.

# EBM-PAPST AC3200JH – AC Fan, 115/230V, 92x92x38mm, 86 CFM

The **EBM-PAPST AC3200JH** is a high-performance AC axial fan designed for reliable cooling in industrial, electronic, and HVAC applications, supporting universal input voltages from 85 to 265 VAC.

<b>Specifications</b>	<b>Details</b>
Manufacturer	EBM-PAPST
Series	AC 3200 J
Form Factor	92 x 92 x 38 mm
Nominal Voltage	115/230 VAC
Voltage Range	85 – 265 VAC
Frequency	50/60 Hz
Nominal Speed	6800 RPM
Airflow	144 m <sup>3</sup> /h (85 CFM)
Power Consumption	12 W
Sound Pressure Level	55 dB(A)
Bearings	Ball bearings
Temperature Range	-20°C to +70°C
Weight	325 g
Service Life L10 (40°C)	117,500 hours

## **Applications**

Industrial cooling systems  
HVAC equipment  
Electronics enclosures  
Telecommunications cabinets  
Power supplies and inverters

## **Features**

Universal AC voltage compatibility (85–265 VAC)  
GRP (PBTP) housing and GRP (PA) impeller for durability  
Exhaust-over-struts airflow design  
Clockwise rotation (viewed towards rotor)  
Wire lead connection (AWG 22, TR 64)

IBS Electronics is a global distributor of EBM-PAPST components.

# HOLLYFUSE HC14GPV2.5U15 – Photovoltaic Solar Fuse, 1500V DC, 2.5A, 14×51mm

The HOLLYFUSE HC14GPV2.5U15 is a high-performance **photovoltaic solar fuse** designed for overcurrent protection in 1500V DC PV systems. Built to IEC, GB/T, and UL standards, this 14×51mm cartridge fuse delivers reliable protection for solar power circuits and associated equipment.

## Specifications

<b>Parameter</b>	<b>Value</b>
Current Rating	2.5A
Voltage Rating	1500V DC
Fuse Size	14×51mm
Standards	IEC 60269-6, GB/T 13539.6, UL 248-19
Interrupting Capacity	30,000A at 1500V DC

## Applications

<b>Use Case</b>	<b>Description</b>
Photovoltaic Systems	Overcurrent protection for PV modules and strings
Fuse Holder Compatibility	Recommended fuse-base for 14.3×51mm fuses

## Electrical Characteristics

### **% of Current Rating Blowing Time**

113%	≥ 1 hour
135%	≤ 1 hour
145%	≤ 1 hour

IBS Electronics is a global distributor of HOLLYFUSE components.

# EBM-PAPST K2E225-RA92-09 – AC Tubeaxial Fan, 230V, 225W, 300×300mm, IP44

The EBM-PAPST K2E225-RA92-09 is a high-performance AC tubeaxial fan designed for efficient cooling in demanding electronic and industrial applications. This 230V, 225W fan delivers 415.2 CFM airflow at 2600 RPM, with IP44 protection for reliable operation in challenging environments.

## Specifications

<b>Parameter</b>	<b>Value</b>
Voltage Rating	230V AC
Power Consumption	225W
Speed	2600 RPM
Airflow	415.2 CFM
Frequency	50/60 Hz
Current Draw	0.95A
Fan Size	300×300mm (225mm impeller)
Protection Rating	IP44
Insulation Class	F
Bearing Type	Ball bearing
Weight	3.3 kg
Operating Temperature Range	-25°C to +70°C

## Applications

<b>Use Case</b>	<b>Description</b>
Electronics Cooling	Efficient heat dissipation for industrial control cabinets and power electronics
HVAC Systems	Ventilation and air movement in heating and cooling equipment
Industrial Machinery	Cooling for motors, drives, and automation systems

## Features

<b>Feature</b>	<b>Description</b>
Motor	M2E068-DF single-phase AC motor
Impeller & Housing Material	Durable PA plastic
Rotation	Clockwise (viewed toward rotor)
Direction of Airflow	Exhaust over struts
Guard Grille Material	PA plastic
Environmental Protection	H1 moisture class

<b>Feature</b>	<b>Description</b>
Capacitor	3.5 $\mu$ F, 450V
Motor Protection	Thermal overload protector (TOP)
Compliance & Approvals	CE, UL 1004-3, EAC, CCC, CSA C22.2 No. 77

IBS Electronics is a global distributor of EBM-PAPST components.

# HEYCO M4520 – Liquid Tight Cordgrip, NPT 1/2", 0.18–0.40" Cable Range, Nylon

The HEYCO M4520 is a liquid-tight nylon cordgrip from the Heyco-Tite series, designed to provide a secure, watertight seal for cables in industrial, marine, and outdoor electrical applications. With an IP68 rating and NEMA 4/4X/6/6P approval, it ensures reliable performance in demanding environments.

## Specifications

<b>Parameter</b>	<b>Value</b>
Cable Diameter Range	0.18" (4.6 mm) – 0.40" (10.2 mm)
Thread Size	NPT 1/2"
Overall Length	1.68" (42.7 mm)
Clearance Hole Diameter	0.875" (22.2 mm)
Thread Length	0.44" (11.2 mm)
Wrenching Nut Flat Size	1.06" (26.9 mm)
Material	Nylon 6/6 with Buna N or TPE sealing gland
Flammability Rating	UL 94V-2 (V0 available upon request)
Temperature Range (Static)	-40°F (-40°C) to 239°F (115°C)
Temperature Range (Dynamic)	-4°F (-20°C) to 212°F (100°C)
IP Rating	IP68 (70 PSI, 5 BAR)
Weight	—

## Applications

<b>Use Case</b>	<b>Description</b>
Industrial Equipment	Liquid-tight sealing for cables in machinery and control panels
Marine Systems	Corrosion-resistant cable entry for harsh saltwater environments
Outdoor Installations	Weatherproof cable sealing for lighting, power, and communication systems

## Features

<b>Feature</b>	<b>Description</b>
Superior Sealing	Integral sealing ring ensures consistent, watertight installation
Wide Cable Range	Accommodates the largest approved range of cable diameters for maximum flexibility
Vibration Resistance	Ratchet-style sealing nut provides secure anti-vibration protection
Fast Installation	Acme thread design prevents skipping and speeds assembly

<b>Feature</b>	<b>Description</b>
Chemical Resistance	Resists saltwater, weak acids, gasoline, alcohol, oil, grease, and common solvents
Compliance	UL listed (File E51579), CSA certified (File 93876C), NEMA 4/4X/6/6P approved

IBS Electronics is a global distributor of HEYCO components.

# PULS QS40.244 – 24V DC to 28V DC, 40A Switch Mode DIN Rail Power Supply

The PULS QS40.244 is a high-efficiency, compact DIN-rail mount power supply from the DIMENSION Q Series, delivering up to 960W continuous (1440W short-term) for demanding industrial applications. Designed for AC 200–240V mains, it offers exceptional reliability, high peak current capability, and advanced protection features for automation, motion control, and power distribution systems.

## Specifications

<b>Parameter</b>	<b>Value</b>
Output Voltage	24V DC nominal (adjustable 24–28V DC)
Continuous Output Current	40A (34.3A at 28V)
Short-Term Output Current	60A (51.5A at 28V) for 4s
Continuous Output Power	960W
Short-Term Output Power	1440W (4s BonusPower®)
Ripple & Noise	<100 mVpp (20Hz–20MHz)
Input Voltage Range	AC 200–240V, -15%/+10%
Mains Frequency	50–60Hz ±6%
AC Input Current	4.6A at 230V AC
Power Factor	0.96 at 230V AC (Active PFC)
Inrush Current	14A peak at 230V AC
Efficiency	94.6% at 230V AC
Power Losses	54.8W at 230V AC
Temperature Range	-25°C to +70°C (derating above +60°C)
Hold-up Time	30ms at 230V AC
Dimensions (W x H x D)	125 x 124 x 127 mm
Weight	1.8 kg (3.97 lbs)

## Applications

<b>Application</b>	<b>Description</b>
Industrial Automation	Powers control systems, PLCs, and sensors
Motion Control	Supports high inrush loads for motors and actuators
Process Control Systems	Reliable power for instrumentation and monitoring equipment
Power Distribution Panels	Suitable for multi-load industrial panel integration
Renewable Energy Systems	Stable DC output for PV and energy storage control electronics

## Features

<b>Feature</b>	<b>Description</b>
Compact, Lightweight Design	125mm width and 1.8 kg weight for space-saving installations
High Efficiency	94.6% at full load with excellent partial load performance
BonusPower® Capability	150% power reserve for 4 seconds to start heavy loads
High Peak Current	110A peak for 25ms to trip fuses reliably
Safe Overload Mode	HiccupPLUS for equipment protection
Power Factor Correction	Active PFC ensures efficient energy usage
Low Inrush Current	Minimizes circuit breaker stress during startup
Wide Operating Temperature	Full power from -25°C to +60°C
Parallel Operation	Current sharing capability for higher system output
Diagnostics	DC-OK relay, LED status indicators, and internal data logging
Compliance	CE, UL, and international safety approvals

IBS Electronics is a global distributor of PULS components.

# LITTELFUSE SPXV020 – 20A, 1500VDC, Fast-Acting Solar String Fuse

The LITTELFUSE SPXV020 is a fast-acting solar string fuse engineered for the protection of photovoltaic (PV) systems, delivering reliable overcurrent protection in compact designs for inverters, combiner boxes, and other solar applications.

## Specifications

<b>Property</b>	<b>Value</b>
Current Rating (Continuous)	20A
Voltage Rating	1500VDC
Interrupting Rating	50 kA
Opening Speed	Fast-Acting (F)
Body Material	Melamine
Family Style	Solar Protection
IEC Standard	60269-6
Indicating	No
Interrupt Voltage Type	DC
Mounting Method	Fuse Block
Compliance	UL 248-19 Listed

## Applications

### **Application**

Inverters  
Combiner Boxes

## Features

### **Feature**

Designed for photovoltaic (PV) system protection  
Higher amperage protection in less space for increased design flexibility  
Full-range, fast-acting design helps eliminate common low-overload faults  
High interrupting capacity up to 50,000A

IBS Electronics is a global distributor of LITTELFUSE components.

# LITTELFUSE SPXV025.LXM – 25A, 1500VDC Solar Photovoltaic Fast Blow Cartridge Fuse

The **SPXV025.LXM** by **LITTELFUSE** is a fast-acting photovoltaic cartridge fuse rated at 25A and 1500VDC, engineered for high-performance protection in solar power systems such as inverters and combiner boxes.

## Specifications

<b>Parameter</b>	<b>Value</b>
Fuse Type	Solar Photovoltaic Fast Blow
Current Rating	25A
Voltage Rating	1500VDC
Interrupting Rating	Up to 50,000A
Body Material	Melamine
Cap Material	Copper Alloy (Nickel Plated)
Approvals	UL Listed US-CA (E339112), TUV (J 50506219)
Standards Compliance	UL 248-1, UL 248-19, IEC 60269-6
Environmental	RoHS Compliant, REACH

## Applications

Inverters	Provides circuit protection for inverter systems
Combiner Boxes	Safeguards PV string circuits
Solar PV Systems	Designed for high-voltage solar installations

## Features

- Higher amperage protection in compact size for design flexibility
- Full-range, fast-acting fuse reduces low-overload faults
- High interrupting capacity up to 50,000 A

IBS Electronics is a global distributor of LITTELFUSE components.

# MERSEN ST1000PVM – 1000VDC Modular Surge Protection Device, 3-Pole, DIN Rail Mount

The MERSEN ST1000PVM is a **modular surge protection device** designed for 1000VDC photovoltaic and industrial power systems, providing reliable overvoltage protection using patented TPMOV® technology in a compact DIN-rail mountable form factor.

## Specifications

<b>Parameter</b>	<b>Value</b>
Device Type	Modular Surge Protective Device (SPD)
Number of Poles	3
Nominal Voltage	1000VDC
Technology	TPMOV®
Mounting	35mm DIN-Rail
Wire Range	6–14 AWG Solid / Stranded Copper
Terminal Torque	14.75 lbs-in
Degree of Protection	IP20
Flammability Rating	UL94 V0
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Response Time	< 25 ns
Visual Indicator	Integrated End-of-Life Tab
Remote Indicator	NO/NC Dry Contact
Frequency Range	50–60 Hz
Approvals	ANSI/UL 1449 4th Edition, ANSI/IEEE C62.41.1, C62.41.2, C62.45
Environmental Compliance	RoHS Compliant

## Applications

### Use Case

Photovoltaic (PV) systems  
Industrial control systems  
Power distribution panels  
Inverters and combiner boxes  
Critical control circuitry surge protection

## Features

<b>Feature</b>	<b>Benefit</b>
Patented TPMOV® technology	Enhanced safety with thermally protected MOVs
Fail-safe, self-protected design	Eliminates the need for additional overcurrent protection
DIN-rail mountable	Easy integration into existing panels
Visual and remote status indicators	Simplifies monitoring and maintenance
Compact footprint	Saves valuable enclosure space
IP20 finger-safe design	Improves safety during handling and installation

IBS Electronics is a global distributor of MERSEN components.

# Eaton NZM4-4-XKV2P – Molded Case Circuit Breaker Accessory Jumper Kit, Two-Pole, NZM Series

The **Eaton NZM4-4-XKV2P** is a molded case circuit breaker accessory jumper kit designed for **NZM4 switch disconnectors** in **Frame J-K** sizes. This two-pole accessory is part of the NZM Series and is used for secure, reliable terminal connections in power distribution systems.

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## Specifications

<b>Parameter</b>	<b>Value</b>
Manufacturer	Eaton
MPN	NZM4-4-XKV2P
UPC	786685895307
Product Length	12 in
Product Height	6 in
Product Width	6.5 in
Product Weight	11 lb
Frame Size	J-K
Number of Poles	Two-pole
Series	NZM
Type	Accessories and terminals
Used With	NZM4 Switch disconnector
Warranty	1 year from installation or 18 months from shipment (whichever comes first)

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## Applications

<b>Use Case</b>	<b>Description</b>
Switch Disconnectors	Designed for use with Eaton NZM4 switch disconnectors
Power Distribution	Ensures secure electrical connections in circuit breaker systems
Industrial Installations	Suitable for heavy-duty electrical systems in commercial and industrial settings

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## Features

<b>Feature</b>	<b>Benefit</b>
Compatible with NZM4	Ensures precise fit and reliable operation
Two-Pole Design	Supports dual connection requirements
Sturdy Construction	Durable build for long service life

<b>Feature</b>	<b>Benefit</b>
Easy Integration	Designed for straightforward installation with Eaton NZM Series components

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IBS Electronics is a global distributor of Eaton components.

# 3M 051128601488 – WF104 Cold Shrink Connector Insulator, 2000V, In-Line, Lug Type

The **3M 051128601488 (WF104)** Cold Shrink Connector Insulator is a high-performance in-line insulation solution designed for direct burial and insulated cable applications. Featuring cold shrink technology with factory-applied sealing mastic, it provides a secure, water-resistant seal for reliable operation in demanding environments.

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## Specifications

<b>Parameter</b>	<b>Value</b>
Manufacturer	3M Co.
MPN	051128601488
Model	WF104
Type	In-Line
Voltage Rating	2000 V
Conductor Size	600 to 750 kcmil
Number of Conductors	1
Cable Type	Direct Burial, Insulated
Connector Type	Lug
Insulator Type	Cold Shrink
Temperature Rating	-40°F to 194°F (-40°C to 90°C)
Approval	UL Listed (Canada and US)
Category	Splicing & Terminating Kits
Sub-Category	1 to 5/8 kV Standard Splice Kit
Country of Origin	USA

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## Applications

<b>Application</b>	<b>Description</b>
Electrical Splicing	Insulating and protecting in-line electrical connections
Underground Power Systems	Direct burial cable applications
Industrial Installations	Suitable for heavy-duty environments requiring moisture protection
Utility and Energy Systems	Designed for copper and aluminum conductors with crimped connectors

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## Features

<b>Feature</b>	<b>Benefit</b>
Cold Shrink Technology	Simplifies installation and ensures a tight, water-resistant seal
Sealing Mastic on Each End	Enhances moisture and environmental protection
Wide Application Range	Supports cables from 8 AWG to 3000 kcmil without compromising insulation
EPDM Rubber Tube Construction	Maintains electrical and mechanical integrity
UL Listed	Meets North American safety and performance standards
No Special Tools Required	Speeds up installation and reduces labor costs

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IBS Electronics is a global distributor of 3M components.

# SOUTHWIRE 10656703 – 8 AWG Bare Copper Conductor Wire, 95A, 7-Strand, 600V

The SOUTHWIRE 10656703 is an 8 AWG bare copper conductor wire rated at 95A, featuring 7-strand construction for high conductivity and flexibility. Ideal for electrical applications such as transmission, distribution, grounding, and jumpers in construction projects.

## Specifications

<b>Parameter</b>	<b>Value</b>
<b>Type</b>	Copper
<b>Conductor Size</b>	8 AWG
<b>Conductor Stranding</b>	7-Strand
<b>Outside Diameter</b>	0.05 in. (1.27 mm)
<b>Voltage Rating</b>	600V
<b>Temperature Range</b>	60°C – 90°C
<b>Package Length</b>	500 ft
<b>Package Weight</b>	50 lb/1000 ft
<b>Package Type</b>	Spool

## Applications

<b>Class / Construction</b>	<b>Typical Use Cases</b>
<b>AA &amp; A (Solid/Stranded)</b>	Overhead transmission and distribution lines
<b>B &amp; C (Stranded)</b>	Uninsulated hook-up, jumpers, and grounding in electrical construction
<b>Soft Drawn (Unilay)</b>	Flexible installation where bending and routing are required

## Features

<b>Feature</b>	<b>Benefit</b>
<b>Bare Copper Construction</b>	Excellent conductivity and corrosion resistance
<b>7-Strand Design</b>	Enhanced flexibility for easier routing and termination
<b>600V Rating</b>	Suitable for a wide range of industrial and commercial applications
<b>Temperature Range 60°C–90°C</b>	Supports various installation environments
<b>Spool Packaging</b>	Convenient handling and storage

IBS Electronics is a global distributor of SOUTHWIRE components.

