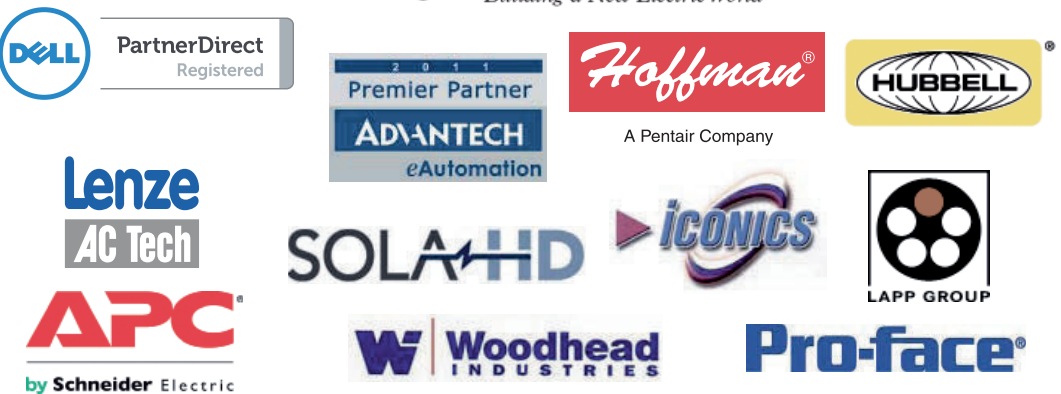


TOP VENDORS



VENDORS & BRANDS

3M
 ABB/ Entelec
 Acme Electric
 Adalet
 Advantech
 Akron
 Allied Tube & Conduit
 Alpha Wire
 Anaconda Sealtite
 APC
 Appleton Electric
 Applicom
 Arlington Industries
 Baldor Motors
 B&B Electronics
 Blackburn
 Brad Harrison
 Brady USA

Bryant
 Busmann
 Caddy
 Cadweld-Erico
 Carlon
 Citect
 Contact Electronics
 Cooper Lighting
 Coronet Inc.
 Cully / Minerallac
 Dialight
 Dell Computers
 Dura-Line
 Edwards
 EIKO Lamps
 Electri-Flex
 Federal Signal
 Ferraz (Mersen)

Generac Power
 Grace Engineering Green
 Bull Ladders
 Greenlee
 Hallex
 Haydon Corp.
 Hoffman
 Howard Industries
 Houston Wire
 Hubbell
 Hyde Park Sensors
 IBOCO
 Iconics
 Ideal Industries
 Ilsco
 InduKey
 Intermatic
 Jefferson Electric
 Juno Lighting
 Kellems
 Kidde
 Killark

Kindorf
 Klein Tools
 Kooltronics
 Kraloy Fittings
 Lamar Lighting
 Lapp USA
 Lenze
 Leviton
 Lex Associates
 Lightalarms
 Lithonia Lighting
 Littelfuse
 Marathon/Kulka
 McLean
 Meltric
 Mercury Lighting
 Metallics
 Milwaukee Tools
 Modicon
 Mulberry Metals
 Namco Controls
 National Controls

NR&D
 Nutone / Broan
 Olflex Wire & Cable
 Panduit
 Phillips Lighting
 Prime Conduit
 Pro-Face America
 PQL
 RKC Instrument
 Rack-A-Tiers
 Raco
 RAB Lighting
 Red Dot
 Republic Conduit
 RJ Lnxx
 Sateo Lighting
 Schneider Electric
 Simkar Lighting
 SolaHD
 Southwire
 Square D
 SSAC

SST
 Staco Energy
 Steel City
 Superstrut
 Telemecanique
 TCP Inc.
 Thomas & Betts
 Transcoil
 Topaz
 Underground Devices
 Unistrut
 Universal Lighting
 Veolia Environmental
 Versabar
 Victor Specialities
 Westen Tube
 Wheatland Tube Co.
 Wieland
 Woodhead
 Plus Many More...

PRODUCTS BY CATEGORY

AUTOMATION

Programmable controllers
 backplane PLCs
 distributed I/O PLCs
 programmable relays
 graphical touchscreen PLCs
 Distributed I/O
 Profibus DP, Interbus,
 Ethernet, CANopen,
 RS-232/485, DeviceNet,
 Modbus Plus & FIPIO
 Graphical touchscreens
 3.8" to 15" touchscreens
 graphical touchscreen PLCs
 Message displays
 Panel PCs
 6.4" to 15"
 Industrial panel PCs
 6.4" to 17"
 Desktop/tower/wallmount PCs
 Rack mount PCs
 Flat panel industrial monitors
 6" to 19"
 Dell Computers
 Graphical software
 Iconics Genesis
 Citect
 Telemecanique Vijeo Designer
 Pro-Face GP Pro-EX
 Temperature Controllers
 Industrial ethernet wiring devices
 Switches, media converters
 Industrial wireless ethernet

CIRCUIT PROTECTION

Miniature circuit breakers
 Supplementary protectors
 Low voltage power breakers
 Arc flash protection breakers
 Ground-fault protection breakers
 Disconnect switches
 Electrical power fuses
 PC board fuses
 High speed fuses
 British and European fuses
 Electronic fuses

DISTRIBUTION

Busway
 Load centers
 Metering equipment
 Motor Control Centers
 Panelboards
 Power distribution products
 Safety switches
 Surge protection and TVSS
 Transformers
 Wire management systems

ELECTRICAL ENCLOSURES

Computer Modular
 Operator interface
 pendant enclosure
 pushbutton enclosure
 Datacom enclosures

Open frame racks
 modular racks
 cabinets
 wall-mount cabinets & racks
 cable runway systems
 Industrial enclosures
 Junction boxes
 Floor, wall and free standing
 Disconnect enclosures
 Corrosion resistant
 Stainless steel
 Aluminum
 Polycarbonate
 ABS
 Commercial boxes and enclosures
 Wireway and trough
 Thermal management
 Air conditioners
 Heat exchangers
 Heaters
 Fans, blowers and louvers
 Hazardous location enclosures
 NEMA 9 enclosures
 Ex enclosures
 Purging/pressurized

MACHINE CONTROL

Automation components
 ultra compact controllers
 smart relays
 distributed I/O
 Component networks
 Seriplex
 Asi

Condition sensors
 pressure sensors
 temperature sensors
 float switches
 Encoders
 Indicating banks and beacons
 70mm indicating banks
 50mm indicating banks
 Limit switches
 mini limit switches
 compact limit switches
 heavy duty limit switches
 severe duty limit switches
 Machine safeguarding
 safety relays
 safety interlocks
 safety controllers
 light curtains
 cable pull switches
 Operator interfaces
 graphical touchscreens
 text displays
 industrial computers
 Pendant stations
 Power supplies
 DIN rail mount
 open frame
 modular design
 DeviceNet power supplies
 Push buttons and pilot lights
 16mm, 22mm & 30 mm
 selector switches
 Relays
 Zelio programmable relays
 Zelio measurement relays

general purpose
 IEC relays
 Sensors
 photoelectric
 inductive proximity
 ultrasonic
 limit switches
 Timers
 IEC timers
 plug-in timers
 Terminal blocks
 IEC and NEMA styles
 power distribution
 fuseholders
 custom terminal markers

MOTOR CONTROL

Panel AC drives
 0.5 to 700 HP
 Packaged drives
 HVAC
 Pump & fan
 MCC drives
 Combination starters
 IEC contactors and starters
 K-line 6 to 12 amps
 D-line 9 to 150 amps
 F-line 115 to 150 amps
 NEMA contactors and starters
 Sizes 00 to 7
 Gearboxes
 Servos amplifiers and motors
 Stepper drives and motors
 Self-protected starters

Soft starters

CONTRACTOR SUPPLIES

Load Centers
 Lighting panelboards
 Occupancy sensors
 Building automation controls
 Conduit
 PVC, Aluminum, EMT & Galvanized
 Wire
 Romex
 armored cable
 service entrance
 building wire, THHN, XHHW
 Lighting fixtures
 Wire termination
 Surge protection
 Tools
 hand tools
 power tools
 electrical testers
 ladders
 Wiring devices
 Bulbs
 Hardware
 Boxes
 Fasteners
 Ballasts
 Service entrance equipment
 Exit signs
 Fittings
 Exhaust fans
 Smoke and CO detectors



Our Special Capabilities

STOCK

- 32,000 square foot warehouse in Union City, NJ
- Direct electronic access to all Square D US warehouses
- Dedicated floor stock to service JIT needs of fast track projects

KITTING

- Staging of products broken down by specific job or project
- Custom labeling, marking and bar coding
- Custom packaging and put-ups

COMPUTER SERVICES

- Drive cloning and image storage
- Pre-install cards and configure computer components
- Access to 125,000 products from the world's leading peripheral, system and networking manufacturers and software publishers

PROGRAM MANAGERS

- Dedicated inside program managers responsible for order entry, expediting, running usage reports and returns and exchanges

Contractor/MRO Specialty Product Lines

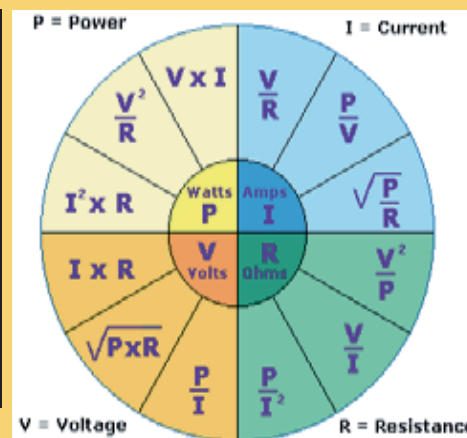


USEFUL FORMULAS AND FACTS!

| Electrical formulas for determining amperes, horsepower, kilowatts and kilovolt-amperes | | | |
|---|--|--|--|
| Desired Data | Alternating Current | | Direct Current |
| | Single-Phase 115v or 120v | Three-Phase all voltages | |
| Amperes when kva is known | $\frac{kva \times 1000}{E}$ | $\frac{kva \times 1000}{1.73 \times E}$ | $\frac{kva \times 1000}{E}$ |
| Amperes when kilowatts are known | $\frac{Kw \times 1000}{E \times pf}$ | $\frac{Kw \times 1000}{1.73 \times E \times pf}$ | $\frac{Kw \times 1000}{E}$ |
| Amperes when HP is known | $\frac{hp \times 746}{E \times \%Eff \times pf}$ | $\frac{hp \times 746}{1.73 \times E \times \%Eff \times pf}$ | $\frac{hp \times 746}{E \times \%Eff}$ |
| Kilovolt-Amperes | $\frac{I \times E}{1000}$ | $\frac{I \times E \times 1.73}{1000}$ | $\frac{I \times E}{1000}$ |
| Kilowatts | $\frac{I \times E \times pf}{1000}$ | $\frac{I \times E \times 1.73 \times pf}{1000}$ | $\frac{I \times E}{1000}$ |
| Horsepower (output) | $\frac{I \times E \times \%Eff \times pf}{746}$ | $\frac{I \times E \times 1.73 \times \%Eff \times pf}{746}$ | $\frac{I \times E \times \%Eff}{746}$ |

Legend: E=volts, I=amperes, %Eff=% efficiency, pf=power factor, kva=kilovolt-ampere, hp=horsepower, kw=kilowatts

| Logic I/O Terminology | |
|---|------------------------|
| PNP | NPN (Not Pointing in) |
| Positive Logic | Negative Logic |
| True High | True Low |
| Current Sinking Input | Current Sourcing Input |
| Current Sourcing Output | Current Sinking Output |
| Sinking provides a path to supply common (-) | |
| Sourcing provides a path to supply source (+) | |



| | |
|----------------------------|----------------------|
| Converting volts to watts: | watts = amps x volts |
| Converting volts to amps: | amps = watts / volts |
| Converting amps to volts: | volts = watts / amps |
| Converting amps to watts: | watts = volts x amps |

CUNY & GUERBER, Inc.

2100 Kerrigan Avenue,
PO Box 1192,

Union City, NJ 07087-1192

Phone 201-617-5800

Main Fax 201-617-5557 • Counter Fax 201-617-7221



CUNY & GUERBER, INC



Automation and Electrical Supplies
for OEMs, Contractors and MROs
Line Card and Company Information



Cuny Map



www.cuny.biz