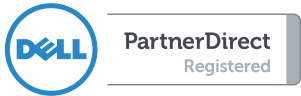
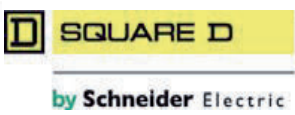


TOP VENDORS



PRODUCTS BY CATEGORY

VENDORS & BRANDS

3M
ABB/ Entrelec
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
Carlson
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 Idustries
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...

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

Sensors
 general purpose
 IEC relays
 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

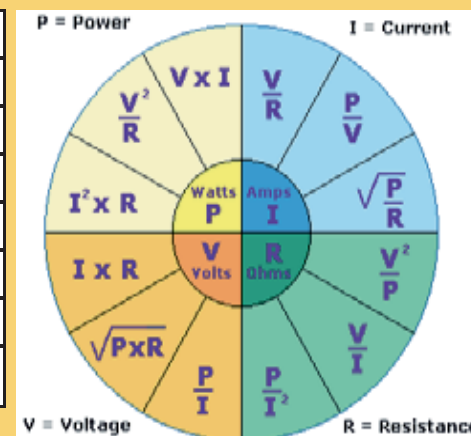


USEFUL FORMULAS AND FACTS!

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=ampreres, %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

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CUNY & GUERBER, INC



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



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