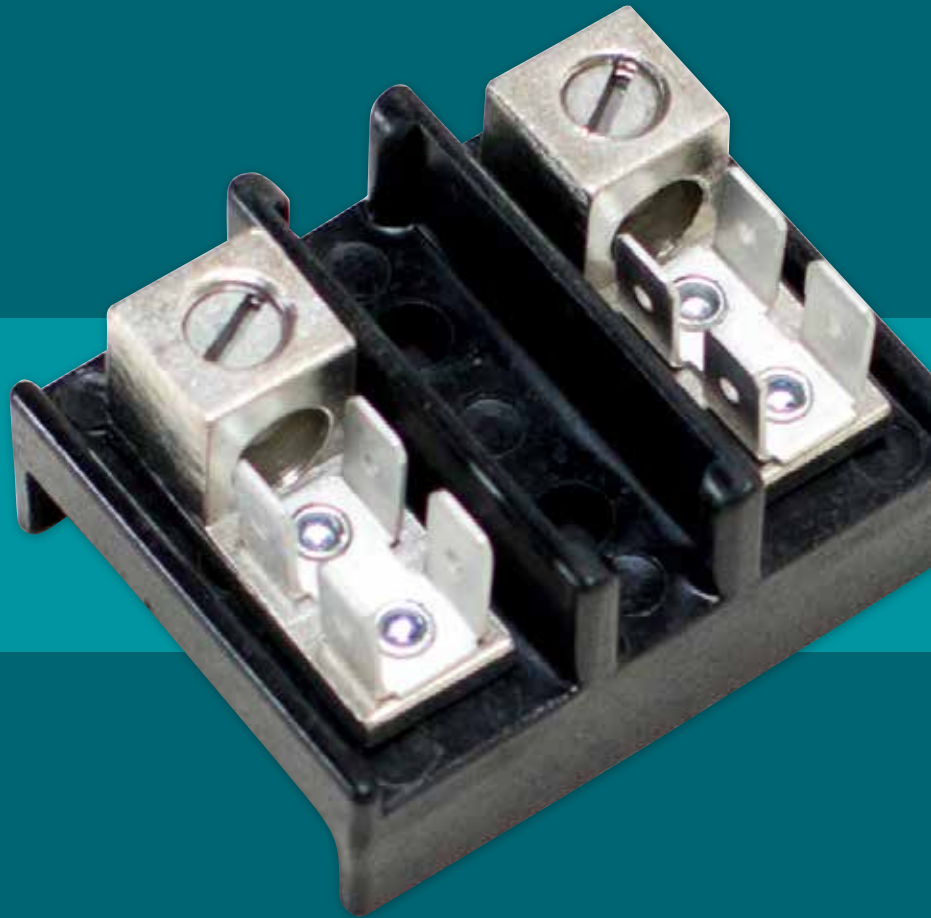


# ELEC TRON inc.

*"Your Source with the **Right Connections**"*



- **TERMINAL BLOCKS**
- **TERMINAL BOARDS**
- **FUSE PANELS**



**MANUFACTURER OF  
ELECTRICAL COMPONENTS**

**ELEC  TRON inc.**

2050 E. NORTHERN ST. / WICHITA, KS 67216  
(316) 522-3401 / FAX (316) 524-6767



# Table of Contents

## INTRO

Elec-Tron's promise .....	2
A bit of history.....	3-4
A new generation .....	5-7
Departments .....	8-27
Wire connection methods.....	28-29
Materials .....	30-31

## OVERVIEWS

Power Terminal blocks .....	33
Terminal boards / fuse panels .....	35-37
Component boards / Assemblies.....	38
Custom and special designs .....	39

## INTERNAL WIRING

### JUNCTION BLOCKS

ESB1 Series .....	41-45
ESB2 Series .....	47-50
EL Series .....	51-53
ELD Series.....	54-56
EL, ELD markings.....	57-59

### POWER TERMINAL BLOCKS

EB Series .....	61-66
ERB Series.....	67-71
ERA Series .....	73-74
EK Series .....	75-78
ED Series .....	79
EJ Series .....	80-81

## TERMINAL FUSE BLOCKS

TFB Series.....	83-87
-----------------	-------

## INSULATED

### TERMINAL BLOCKS

EE8 Series .....	89-91
EM12 Series.....	92-94
EE16 Series.....	95-97
EE30 Series.....	98-100
EF Series .....	101

## CONTROL CIRCUIT BLOCKS

ET Series .....	103-105
-----------------	---------

## FEED-THRU TERMINAL BOARDS

EG Series .....	107
ES-36 Series.....	108
ES-43 Series.....	109

## EPC PRINTED CIRCUIT

### INTERNAL TERMINAL BOARDS

ES-101 Series .....	111
EI Series .....	113

## COMPONENT BOARDS

Component assemblies.....	115
Multi-function terminal boards .....	116-121

# Elec-Tron's promise

Giving you the right connections is Elec-Tron's only business, so our engineers work hard to provide the connections you want, in the space you have, and at prices you can afford.

Highly experienced engineers have assisted hundreds of customers in developing designs that substantially reduced material and assembly costs and/or solved difficult problems.

Standardized spacing, and mounting designs allowing more connections in less space, are the foundation of the most complete line of appliance terminal boards and blocks available – anywhere!

Because of the immense array of Elec-Tron product options, many applications can be satisfied without a tooling charge.

Stocked components allow almost off-the-shelf delivery.

Whether your application is in a wet, hot or corrosive environment, Elec-Tron engineers will provide you the quality connection that's just right!

## ***Elec-Tron connectors are in:***

- Ovens, ranges
- Refrigerators
- Freezers
- Microwaves
- Washers, dryers
- Furnaces
- Air conditioners
- Thermostat connections
- Food equipment
- Commercial kitchen equipment
- Vending machines
- Office equipment
- Computers
- Copiers
- Motor controls
- Medical systems equipment
- Material handling equipment
- Automatic door & gate openers
- Recreational vehicles
- Farm machinery
- Marine panels

***and many, many other applications!***

***What is your application?***



# Satisfying customers for more than 70 years



Elec-Tron, Inc. of Wichita, Kansas has grown into the appliance industry's leading source of electrical terminal blocks and terminal boards. The company's 60+ employees celebrated Elec-Tron's 73rd year in business in 2019.

Founded as Zimco Metal Products in April 1946, the company operated primarily as a contract manufacturer, producing miscellaneous metal stampings and assemblies.

In 1954 company founders R. C. Beddow and E. J. (Jim) Beddow elected to change the name of the firm to Elec-Tron, Inc., to more accurately reflect the nature of the products, primarily electrical switches, wiring harnesses, and terminal boards.

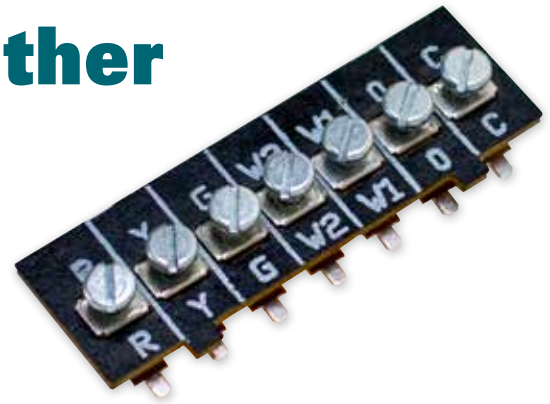
The O. A. Sutton Corp., then the leading manufacturer of room air conditioners, was a steady customer for many years.

As Elec-Tron's reputation for quality and timely delivery grew, the company began serving most major appliance manufacturers in the U.S. and abroad.

When R. C. Beddow passed away in 1970, Jim Beddow was named President.

**Molded terminal blocks joined terminal boards in 1975. This produced immediate results, so the company sold its switch products and focused solely on manufacturing connection products.**

# Jim Beddow, grandfather of the terminal board



Reflecting on his several decades of experience, Jim Beddow noted a number of changes in the manufacture of appliances.

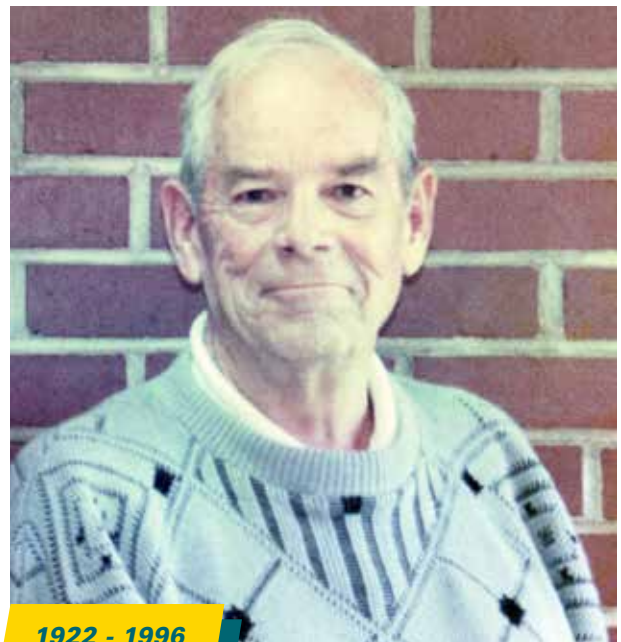
While products become more complex, the industry demands ever-increasing quality. Elec-Tron follows industry trends, such as the move toward more solid state components, and responds with new products.

"One thing is certain. There will always be changes in this industry. Our challenge is to continue to provide the type of connectors that best fit these changes," said Beddow.

Elec-Tron's job is to provide the right connections to those responsible for manufacturing products that are more compact, higher quality, and more complex.

In January 1988 Jim Beddow retired from active day-to-day management of the company.

"I'm so proud of our fine management team: Lowell and RoseAnn. Both have a very special place in my thoughts these days. Both joined us in essentially entry level positions and worked themselves up to head our management team. I will leave the company with complete confidence in their ability to lead our firm to bigger and better things, as well as developing a strong next generation of management." he said.



1922 - 1996

"Many manufacturers incorporate connectors into their prefabricated wiring harness assemblies. These changes, along with increasingly complex electrical circuitry, require a supplier able to provide the most efficient solutions. Elec-Tron is dedicated to being that supplier," said Beddow.

"Elec-Tron is known in the industry for its customer service, and we continue that service," said Beddow. "Thanks to our production quality, innovative technology, and service, Elec-Tron has been named an Outstanding Supplier many times."

# A new generation for Elec-Tron



**RoseAnn Rohleder was named President, with Lowell Wiebe continuing as Vice-President in charge of production and sales.**

In 1997 Elec-Tron expanded by 12,000 sq. ft. and in 2007 bought an adjacent warehouse to add another 15,000 sq. ft. The plant totals 50,000 sq. ft. in 2019.

*"Our employees are our success! Average employee tenure is 15 years, so we have become a large family of dedicated professionals. We feel very blessed to have such a wonderful staff. We are proud to be the first stop for new designs of terminal boards."*

- RoseAnn



# Today Elec-Tron serves every major appliance manufacturer



*How can Elec-Tron serve you?*

# Elec-Tron excels in efficiency, quality and customer satisfaction





# Administration



## President

RoseAnn Rohleder joined in 1979 as a bookkeeper, and now she serves as President.

*"Jim believed in promoting from within, and was very involved in my growth as an administrator. He set high standards and held us all to them."*

- RoseAnn

## Vice-President

Lowell Wiebe, an engineer, joined in 1985 as a draftsman. Now he serves as Vice-President in charge of production and sales.

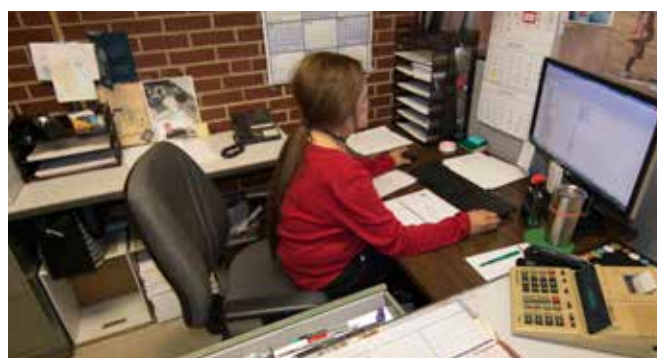
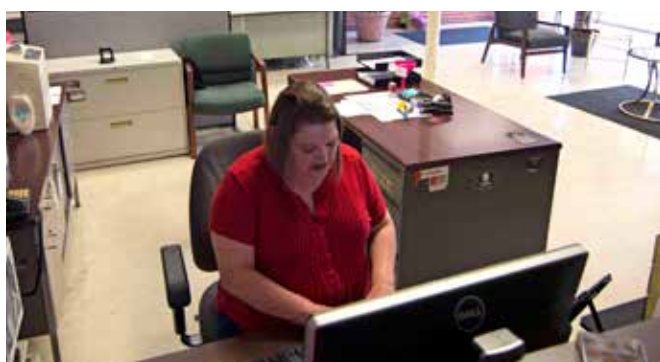
*"Jim trained me, taught me the business, and took me on sales calls."*

- Lowell

***Jim indeed was our mentor.***



# Customer Service



## Shipping & Accounts Receivable

Janice joined in 1991. She started on a rivet machine then moved to shipping. In 2008 she moved to the front office in charge of all outgoing freight and all accounts receivable.

## Inventory Planning & Scheduling

Sally joined in 1998. She also started as a rivet machine operator. She then moved to quality control of the fabricating department. Now in the front office, she is head of inventory control and processes all incoming orders.

***Both Janice and Sally will be happy to take care of all customer needs.***

# Engineering



Dale joined Elec-Tron in 1990 as a draftsman in engineering. He does all the AutoCAD, all drawings, and designs tools, dies, and special fixtures.

Dale also handles daily outside plating of terminals. Long-term local suppliers provide excellent turnaround.



# Compression Molding



Andy maintains all molds and does necessary repairs. Since 2013 he has managed this department 24/7. He works weekends to check molds and load feeders with powder.



Greg joined in 1997 to manage the tumbler and block blaster. He deflashes blocks, opens holes, cleans sharp edges, and preps them for assembling of the completed product.

# Connectors



Dao joined in 2014 and maintains connector machines. He loads aluminum extrusions into drilling/sawing machines to produce connectors.



Danny joined the connector department in 2001. He also serves as the block saw operator. He loads the magazines for continuous feed to cut terminal blocks to different lengths for various poles.



# Terminal & Connector Automatic Screw Machines



Bay joined in 2017 and maintains high speed production, running several machines at the same time. He keeps bowls loaded, maintains feeds, and has very little down time.

*These three gentlemen are super efficient and do a great job!*



## Tool & Die



Ken has worked in tooling since 1983, working with terminal board and terminal dies. Ken builds and maintains dies and tools used to press out terminals and stamp out boards.



Tony started in punch press in 1986, but after a few years moved to tooling. He builds machines, does all the new tooling for machines, and builds all the special fixtures for assembly.



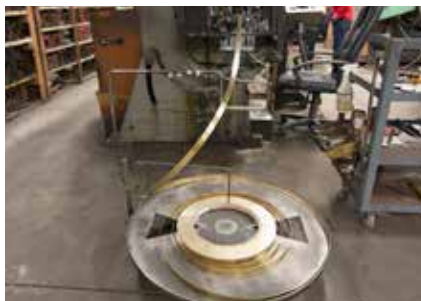
# Punch Press



Ed joined in 2010. As punch press supervisor, Ed oversees operators making terminal boards, insulators, terminals, and jumpers.



Antonio sets up dies in the punch press to manufacture terminals used in the assembled product. These are made of brass, copper, and steel.



Bac joined in 2013 as a terminal board and insulator press operator. He stamps out phenolic and fiberglass boards, as well as brass, steel, and copper terminals.

## Panel Saw



Riley joined in 2014 as a terminal die punch press operator, but also took on the duties of panel saw. He computes the size of strips, then cuts terminal boards into strips from sheet material.

Various strips are then inserted to the punch press to make the terminal boards.



# Plant Manager



Vern started in the connector department in 2002 and maintained those machines. Now he supervises about 45 assembly staff and maintains all machines in the assembly area.

Vern was promoted to plant manager of the assembly department when his predecessor retired after 40 years with Elec-Tron.

# Assembly



Kim joined in 2004, Sep joined in 2006, and Laurie joined in 1983. They handle ultraviolet printing on terminal boards and terminal blocks. The printer head stamps the ink on the board or block. The part is then sent through UV light to dry the ink.



Sue is supervisor of screwdriver machines. She joined in 1994. Her specialty is feeding screws into terminals and screwing terminals to terminal boards.



# Rivets - Single & Double Header



Jessica is the supervisor of the single-header riveting. She started in 1989 in stock, ran a rivet machine, and moved to supervisor.

Thuy joined in 2006. Her double-header rivet department feeds terminals with two lines inserting two rivets at once.



*"I feel so very strongly about my love of this fine family, my genuine feeling of gratitude for bringing hard-working employees into our family, and for the many faithful 'old timers' who make up the bulk of our employees." - Jim Beddow, 1996*

## Crimping Machines



Maria joined as a printer in 1995, moved around, and now serves as crimping supervisor. After screws are inserted into terminals, the whole terminal is crimped to the board.

## Eyelets



Rosetta joined as an operator in 1996, and now supervises inserting eyelets that fasten insulators to the backs of the terminal boards.



# Single Rivet Machine



Several operators work on riveting terminals into terminal boards.



# Automated Assembly



A half dozen operators insert studs and ground straps in the popular EJ Series blocks.



# Visual Inspections



After blocks are manufactured, they are visually inspected and hand-boxed, then routed to inventory.

# Quality Control



Dave is the plant manager of the fabricating department and head of maintenance for the entire plant. Dave joined in 1998 and does "first article" inspections after dies are set, to initiate production runs. He checks dimensions against prints, documents everything, and maintains traceability of all lots and parts.



Cindy, who joined in 1993, handles quality control of completed parts. She checks representative samples, records data for traceability, and visits each machine every two hours for random floor inspection. Elec-Tron has very little in returns, for the best quality record in the industry!



# Inventory / Stock



After parts and components are back from plating, terminals are weigh/counted and recorded. Terminal boards and insulators are hand-counted and put into kits so that they are ready for assembly of parts.

# Shipping



After parts are assembled and moved to shipping, they are hand-counted and packaged. Packages are prepped for parcel shipment, or shrink-wrapped for truck shipment.



# Warehouse



In 2007, a 15,000 sq. ft. warehouse was added. All raw materials, boxing materials, pallets, screws, rivets, eyelets, and connectors are stored here.

# Wire Connection Methods



## Quick Connect Terminals

Quick-connect tabs are a one-piece construction, available in both .250" and .188" sizes. Single, double and triple quick-connects are available.

## Screw terminals

Screw terminals are offered with or without wire retaining ears. Combinations of quick-connect tabs and screw terminals meet 80% of appliance design requirements, at a substantial saving. More than a thousand different terminal arrangements are U.L. component recognized and ready for your application.







## Bifurcated soldering terminals

Although most applications for terminal boards and terminal blocks involve quick-connect or screw terminals, some require soldered connections. With the introduction of small solid state components into wiring circuits, the number of soldered connections has increased dramatically.

Usually, the small resistors, diodes, varistors, and other components are soldered directly to a terminal board or terminal block, which then provides the mounting base and wiring connections to the solid state components.

Elec-Tron's unique line of specialized terminals combine superior soldering terminals with quick-connect tabs - in a single piece board or block. All terminals are available as standard components on all Elec-Tron terminal boards and terminal blocks.

The soldering lug portion of Elec-Tron's terminals is unique in that lead wires aren't inserted through small holes and wrapped to obtain proper junction.

The Elec-Tron bifurcated soldering terminals consist of a split tab, formed into a fork. The lead wires are simply laid in the open fork, the fork is lightly squeezed and ready for soldering.

A particular advantage of this style is its ability to hold two or three lead wires as readily as a single wire.

An Elec-Tron bifurcated terminal meets or exceeds all U.L. requirements, including the requirement for mechanical security.

# Materials



## Mounting base

Frequently, a terminal board base may be extended to include mounting holes and space for the other electrical components that will be assembled later by the appliance manufacturer. This simple adaptation may permit the manufacturer to build up a complete electrical subassembly, efficiently, away from the final production line; it may provide a complete service replacement package, or, it may furnish a mounting base that eliminates the fabrication and installation of a separate base.

Relays, transformers and circuit breakers are common components that may be provided for in the design of your terminal boards.

Elec-Tron stocks all component parts. This provides control over delivery, price and quality. This also provides flexibility for the designing engineer.

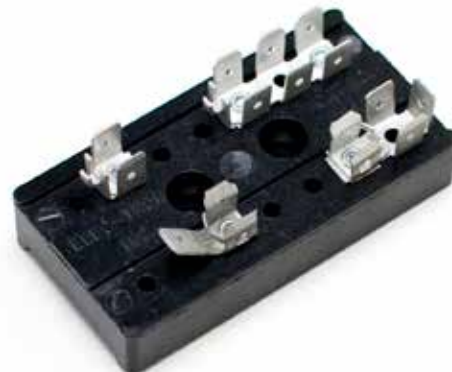


## Terminal block / board assemblies

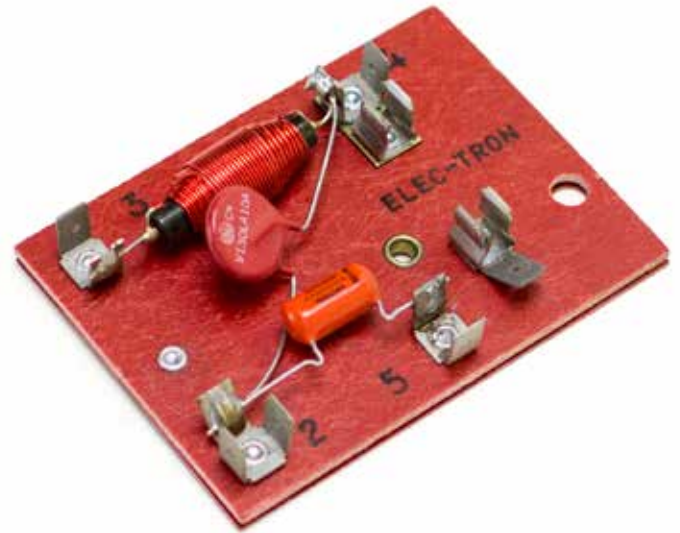
The line of Elec-Tron bifurcated terminal combinations is designed to be mounted anywhere that the conventional quick-connect terminals are applied, to terminal boards or terminal blocks.

Most models include anti-rotation ears, permitting their application directly to laminated phenolic or glass polyester boards.

All models will fit interchangeably onto any of Elec-Tron's standard molded phenolic terminal blocks, including the ESB1, ESB2 and ET series.







## Solid State Components

With the advance in solid state technology in internal circuits, engineers are frequently faced with the problem of conveniently mounting devices such as resistors, thermal cutoffs, capacitors, chokes, varistors, and more.

Elec-Tron is well prepared to assist you in the design of terminal boards that combine these components along with your wire junctioning needs.

In addition to supplying terminal boards and terminal blocks that include bifurcated terminals, Elec-Tron is well equipped to furnish complete assemblies, consisting of the terminal boards/blocks with customer specified solid state components preassembled.

Generally, it is economically advantageous to purchase complete assemblies. This reduces the number of individual parts that must be ordered and stocked, and Elec-Tron's specialized facilities and trained personnel will usually provide additional cost reductions.

Through careful preliminary design, it is frequently possible to combine several functions onto a single terminal board, resulting in significant cost and space savings, enhancing serviceability, and reducing noise levels.

**Your best source for assistance in the development of such assemblies is Elec-Tron, Inc., where our engineers have been solving these problems for over seven decades.**

# Overview of Power Terminal Blocks



*How can Elec-Tron serve you?*





## Power Terminal Blocks

Elec-Tron's power entrance blocks are used in air conditioners, duct heaters, heat pumps, cooking equipment, electric water heaters, electric clothes dryers, electric furnaces, and a variety of other applications.

When you're seeking the ideal junction for field wiring with internal circuits, take a look at the more than 100 different combinations of terminal and connector arrangements offered by Elec-Tron.

A range of terminal variations make it possible to satisfy a variety of applications with standard molded bases.

Custom designed blocks, based on laminated sheet phenolic or glass polyester sheet, provide an economical alternative for all other requirements.

Elec-Tron produces power terminal blocks to fit nearly any application, including 600 volts and with connectors up to 500 MCM.

Elec-Tron's variety of low voltage terminal blocks is the most complete in the industry.



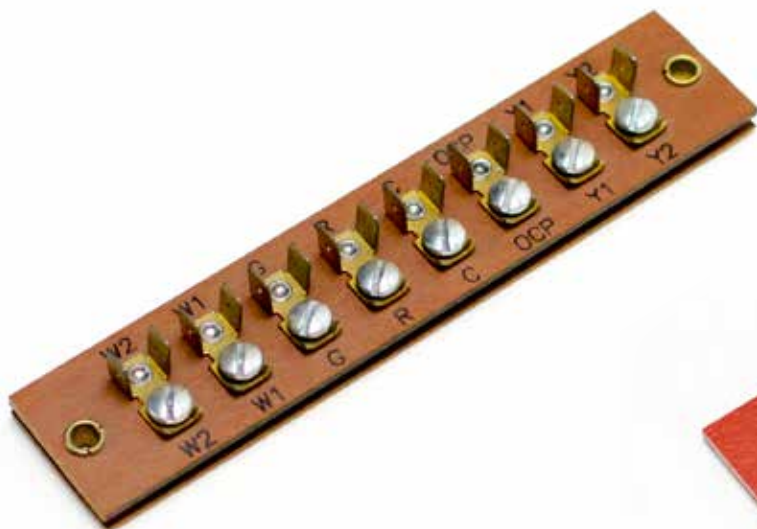
**Elec-Tron's molded terminal blocks may be ordered with nearly endless combinations of connectors and terminals.**

# Overview of Terminal Boards



*How can Elec-Tron serve you?*





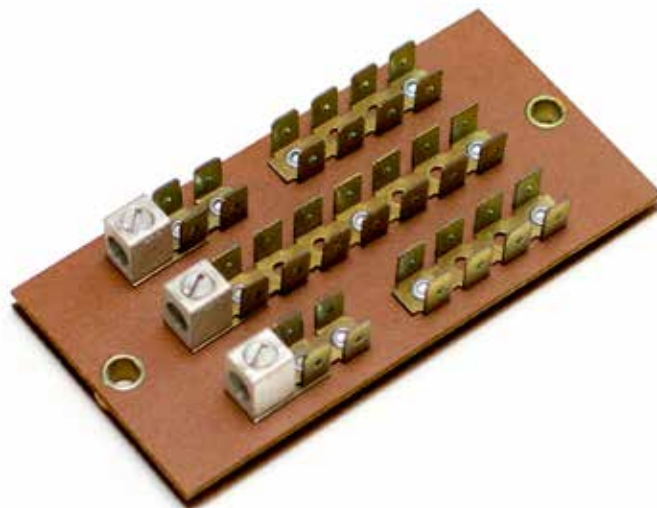
## Terminal Boards

Whether your need is for a single terminal, multiple terminals, quick-connect terminals, screw terminals or solder lugs, Elec-Tron produces an assembly to exactly match your requirements.

By providing an insulator between these connections, the field mechanic no longer has access to your fixed factory wiring. "Wire nuts" are eliminated, along with their potential for loose connections.

The field wiring screw terminals are offered in a vertical or horizontal style, with or without wire retaining ears; the factory wiring is available in 1/4" or 3/16" quick-connect tabs or solder lugs, in dual or single tabs.

As with all Elec-Tron boards, terminal identification may be on the board, and can be printed or steel stamped.



**Elec-Tron is your complete source for standard or custom terminal boards.**

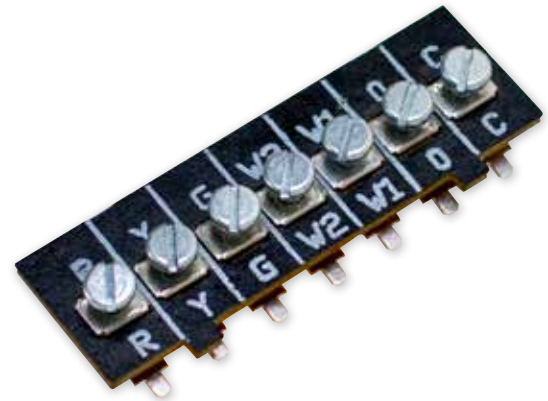
# Overview of Terminal Boards cont.

## EPC Printed Circuit Interface Terminal Boards

EPC Printed Circuit Interface terminal boards provide a central connection point for all field wiring terminations in solid state circuits based on printed circuit boards.

Field wiring connections are terminated on the front side of the board, while factory connections are made to the back side of the board.

Factory connections are not accessible to the field installer. The EPC connector features two types of factory terminals, a wave solderable pin tab that locks into the EPC board and a standard NEMA DC2, .032 X .250 male quick connect tab for wiring connections.



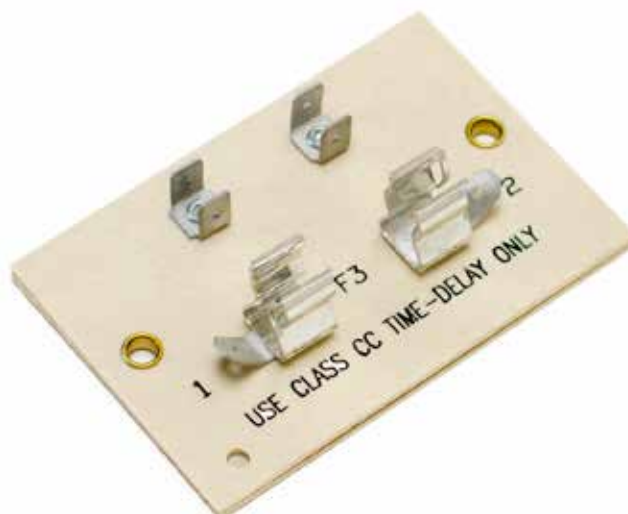
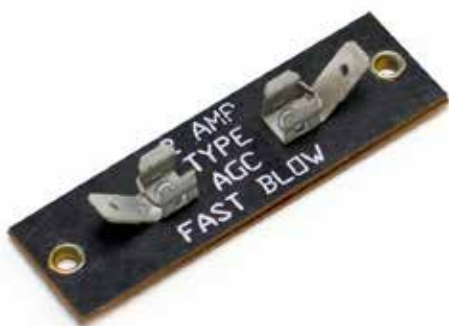
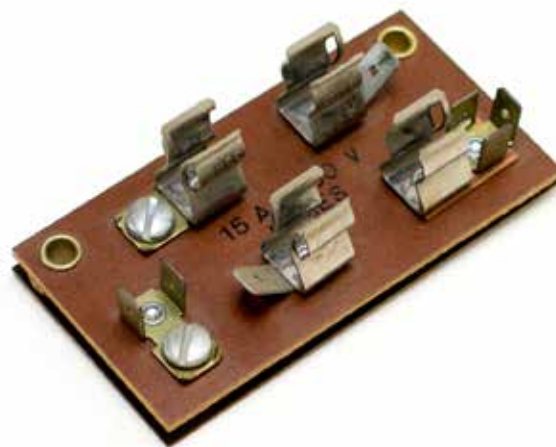
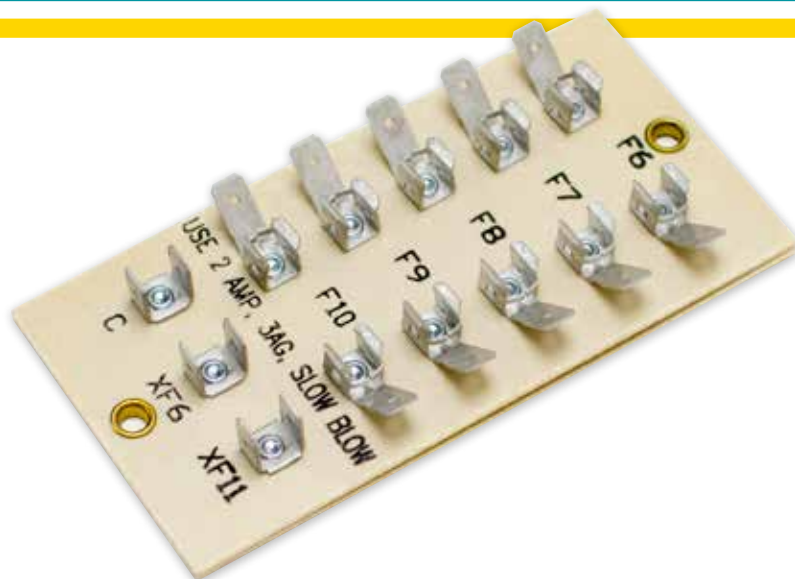


## Fuse Panels

For the original equipment manufacturer, combining components saves in several ways.

By combining on a single board what otherwise would be separate parts, cost of the component package is reduced, less space is required, and your assembly costs are reduced.

Probably the most common multi-function terminal boards consist of combining terminal board components with one or more fuse holders.



# Overview of Terminal Boards cont.

## Component Assemblies

If your product requires diodes, chokes, capacitors, thermal cutoffs, resistors, rectifiers, fuses or other small components, Elec-Tron is equipped to deliver a complete assembly.

### Combining components

Probably the most common multi-function terminal boards consist of combining terminal board components with one or more fuse holders. By combining on a single board what otherwise would be separate parts, cost of the component package is reduced, less space is required, and you avoid inventorying and assembling separate components.

### Multi-Function Terminal Boards

Although terminal boards are generally thought of as simply a means of junctioning several wires, more and more engineers are designing boards that serve multiple functions, thereby reducing assembly effort, providing more accessible servicing, and eliminating noise.

### Noise suppression

A most interesting side benefit gained by mounting certain devices on a terminal board is reduction of undesirable noises. Elec-Tron has assisted in the development of several products in which "transformer hum" and "relay chatter" have been virtually eliminated, simply by moving these components from sheet metal bases to a terminal board mounting.





## Custom and Special Designs

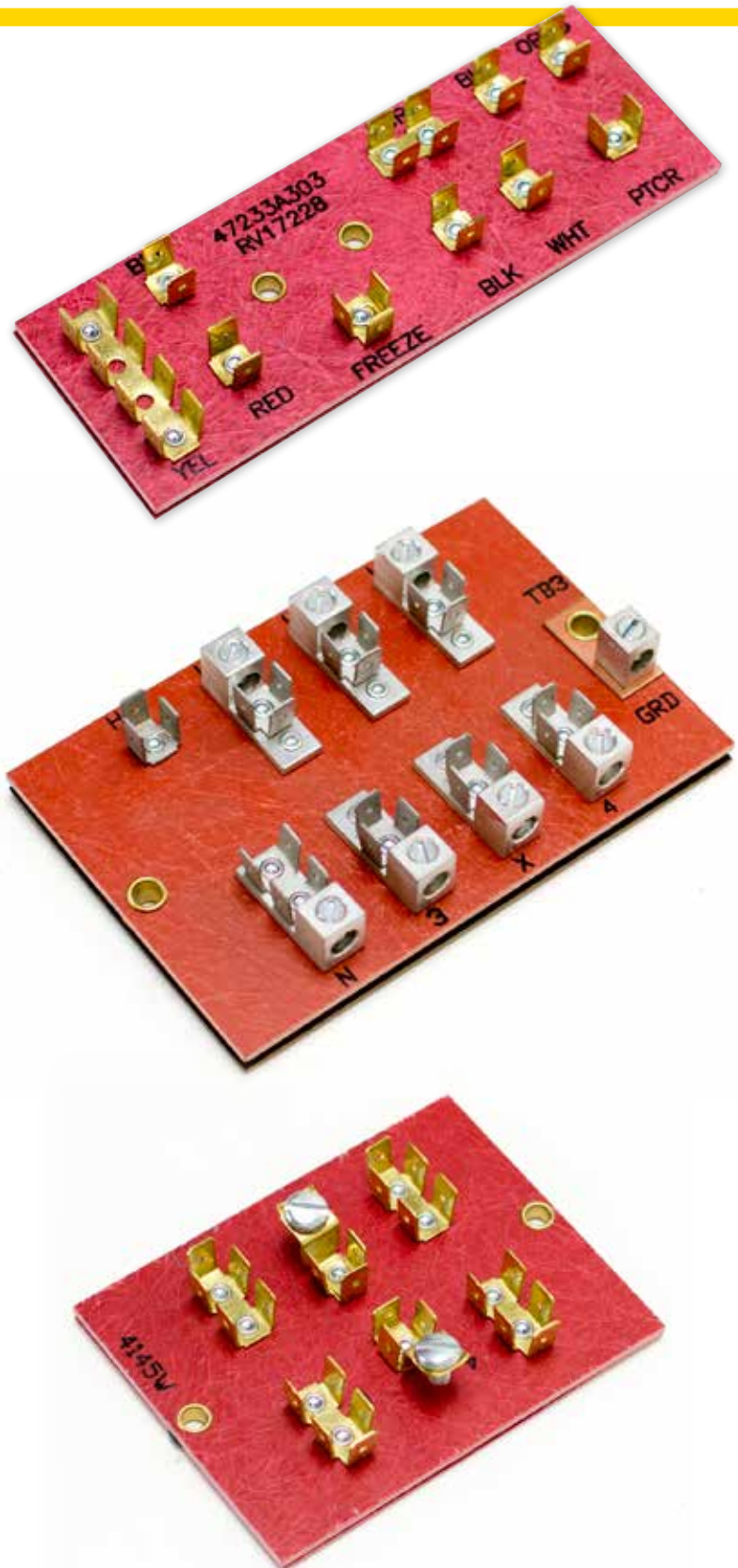
Custom designed blocks, based on laminated sheet phenolic or glass polyester sheet, are an economical alternative for requirements not satisfied using standard molded bases.

Putting more parts on a single board helps you reduce parts ordering and stocking, and can make connections more accessible for servicing.

Laminated sheet phenolic permits custom designed boards to fit any need. Elec-Tron's exclusive tooling process will give you this flexibility for much less than you would expect, usually for less than \$500!

Elec-Tron produces such internal junction blocks and power terminal blocks to fit nearly any application, including 600 volts and with connectors up to 500 MCM.

Elec-Tron's vast array of standard terminals and connectors permits construction of custom designs to fit any special need.



# Internal Wiring Junction Blocks



*How can Elec-Tron serve you?*



## ESB1 Series General Purpose Terminal Blocks

The ESB1 Series delivers a dependable, cost effective and compact junction for internal wiring.

These basic molded terminal blocks are available with several hundred different combinations of quick-connect and screw terminals.

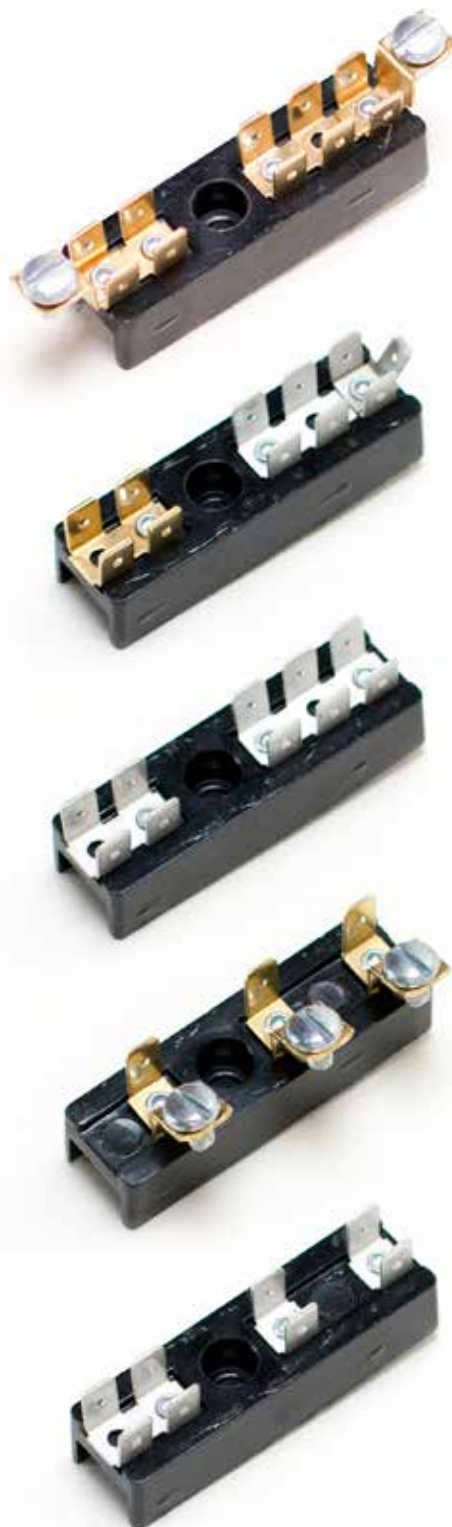
This block uses a single fastener mounting, with a pin providing anti-rotation.

Standard space and mounting satisfy a wide range of your connection requirements. Stocked components permit almost off-the-shelf shipment of every model of block. You'll also enjoy substantial savings over custom fabricated terminal boards, and no tooling charge.

All terminal arrangements are U.L. component recognized and ready for your application.

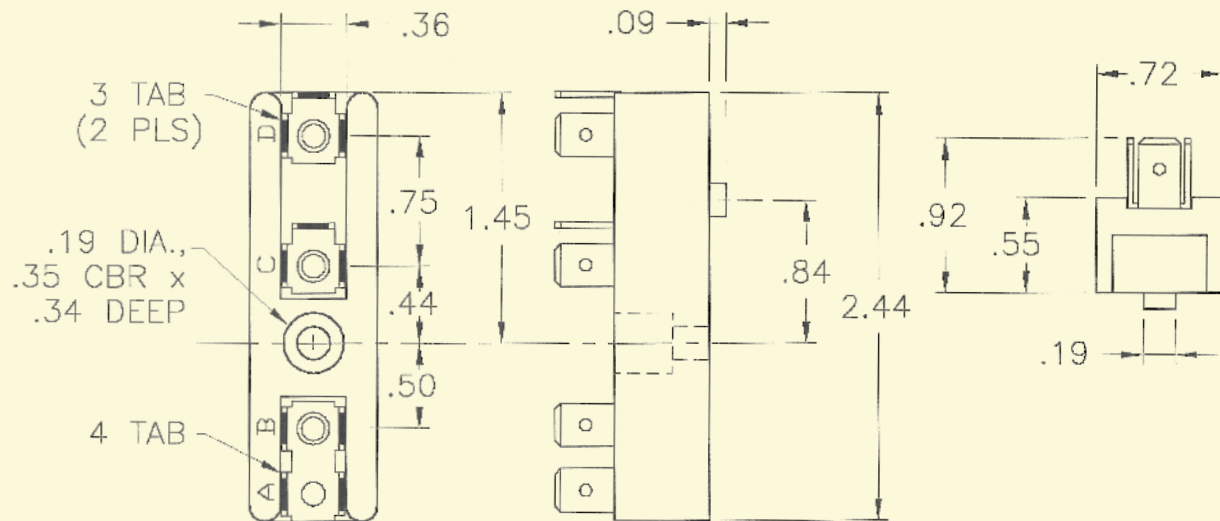
The terminal arrangements shown are just a few of several hundred combinations available. While quick-connect tabs shown are .250 X .032, most styles are also available in .187 X .020.

Quality hi-temp U.L. listed phenolic molded base is rated for 150°C. Every electrical spacing exceeds 3/8". The elevated base gives greater moisture protection.



**Terminal identification and printing are also available.**

# Internal Wiring Junction Blocks **cont.**



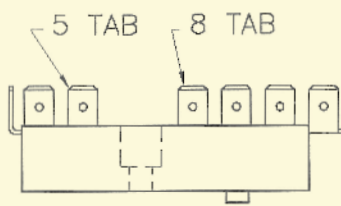
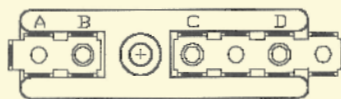
ELEC-TRON PART NO. ESB1-4-3-3 SHOWN

The terminal arrangements shown here are just a few of several hundred combinations available.

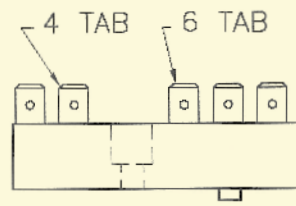
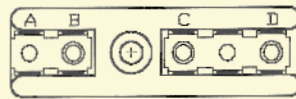
Terminal identification and color code printing are available.

Base material U.L. listed phenolic - 150°C

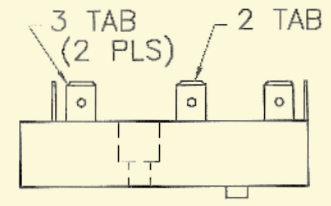
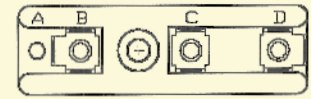
Note: quick-connect tabs shown are .250 X .032. Most styles also available in .187 X .020.



ESB1-5-8

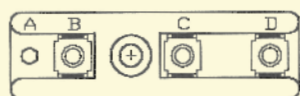


ESB1-4-6

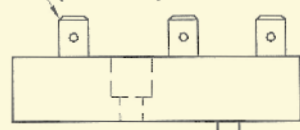


ESB1-3-2-3

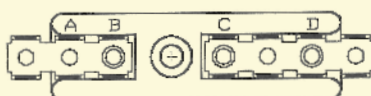




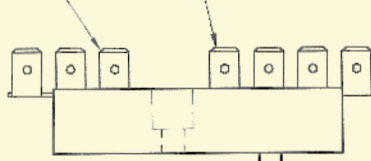
2 TAB  
(3 PLS)



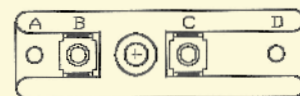
ESB1-2-2-2



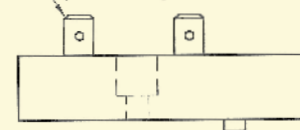
6 TAB 8 TAB



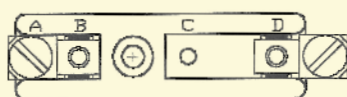
ESB1-6-8



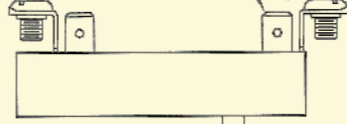
2 TAB  
(2 PLS)



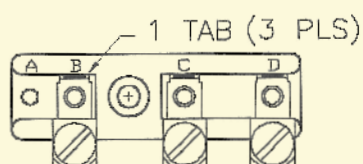
ESB1-2-2-0



#10 SCREW TERM.  
(2 PLS) 2 TAB  
(2 PLS)



ESB1-132-0-132

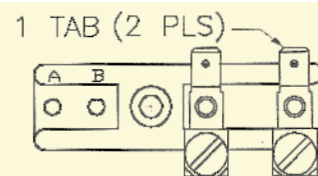


1 TAB (3 PLS)

#10 SCREW TERM.  
(3 PLS)



ESB1-131R-131R-131R

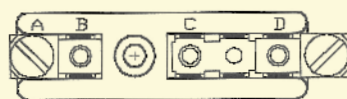


1 TAB (2 PLS)

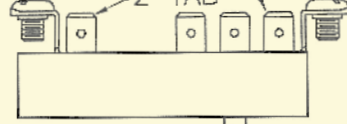
#10 SCREW TERM.  
(2 PLS)



ESB1-0-13145R-13145R



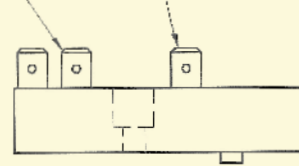
#10 SCREW TERM.  
(2 PLS) 2 TAB 6 TAB



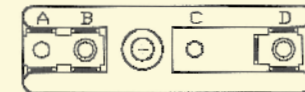
ESB1-132-136



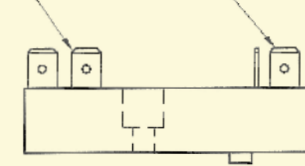
4 TAB 2 TAB



ESB1-4-2-0

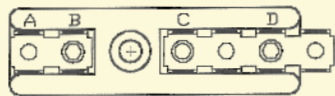


4 TAB 3 TAB

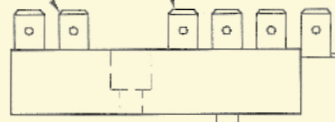


ESB1-4-0-3

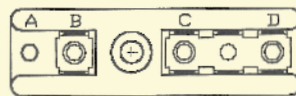
# Internal Wiring Junction Blocks cont.



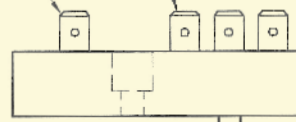
4 TAB  
8 TAB



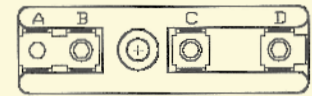
ESB1-4-8



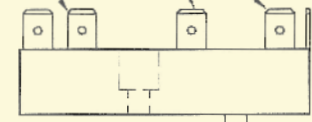
2 TAB  
6 TAB



ESB1-2-6



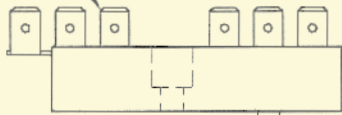
4 TAB  
2 TAB  
3 TAB



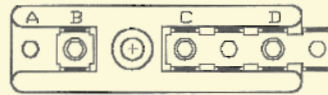
ESB1-4-2-3



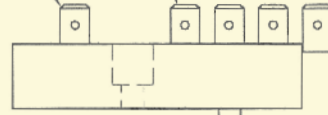
6 TAB  
(2 PLS)



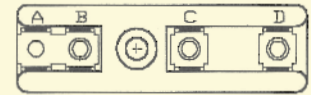
ESB1-6-6



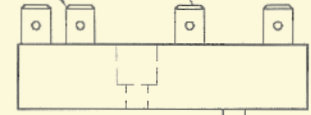
2 TAB  
8 TAB



ESB1-2-8



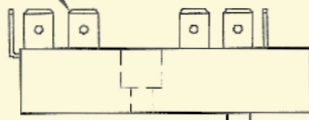
4 TAB  
2 TAB  
(2 PLS)



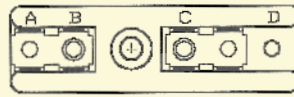
ESB1-4-2-2



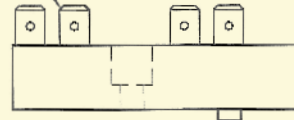
5 TAB  
(2 PLS)



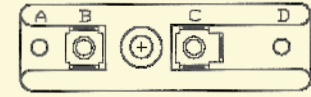
ESB1-5-5



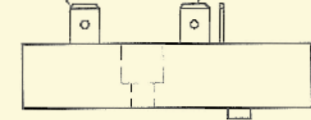
4 TAB  
(2 PLS)



ESB1-4-4

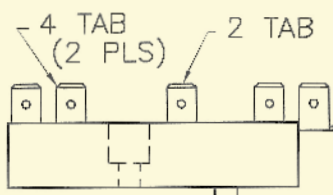
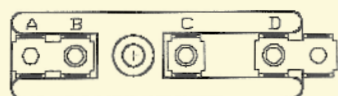


2 TAB  
3 TAB

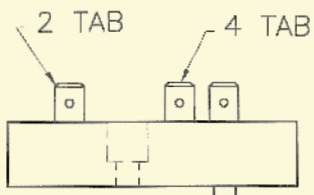


ESB1-2-3-0

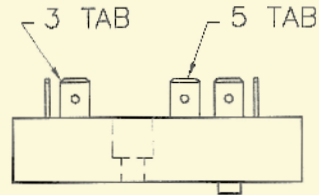
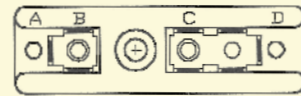




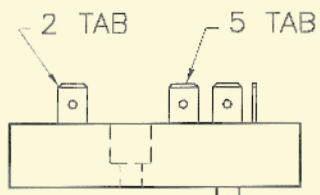
ESB1-4-2-4



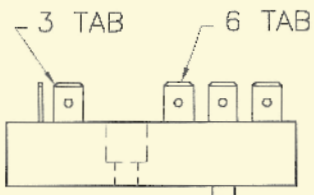
ESB1-2-4



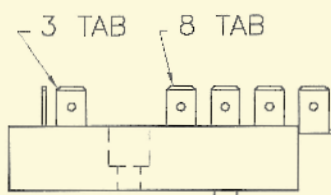
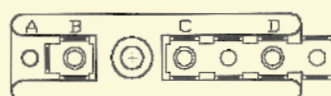
ESB1-3-5



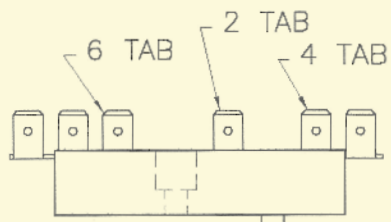
ESB1-2-5



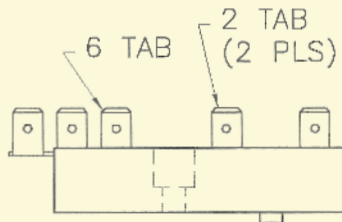
ESB1-3-6



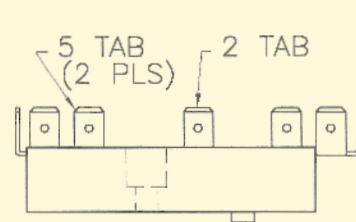
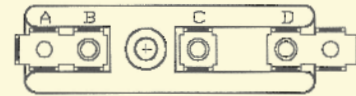
ESB1-3-8



ESB1-6-2-4



ESB1-6-2-2



ESB1-5-2-5

## Internal Wiring Junction Blocks **cont.**



Terminal identification and printing are also available.



## ESB2 Series General Purpose Terminal Blocks

The ESB2 Series is a compact and economical general purpose terminal block for applications requiring more connections than the compact ESB1 Series allows.

The wider ESB2 Series block allows additional quick-connect and screw terminals, in hundreds of combinations, and offers more connections in less space than any open terminal block.

Standard space and mounting satisfy a wide range of your connection requirements. Between the ESB1 and ESB2 Series, more than 1000 different terminal arrangements are possible, meeting 80% of general purpose junction requirements at substantial savings.

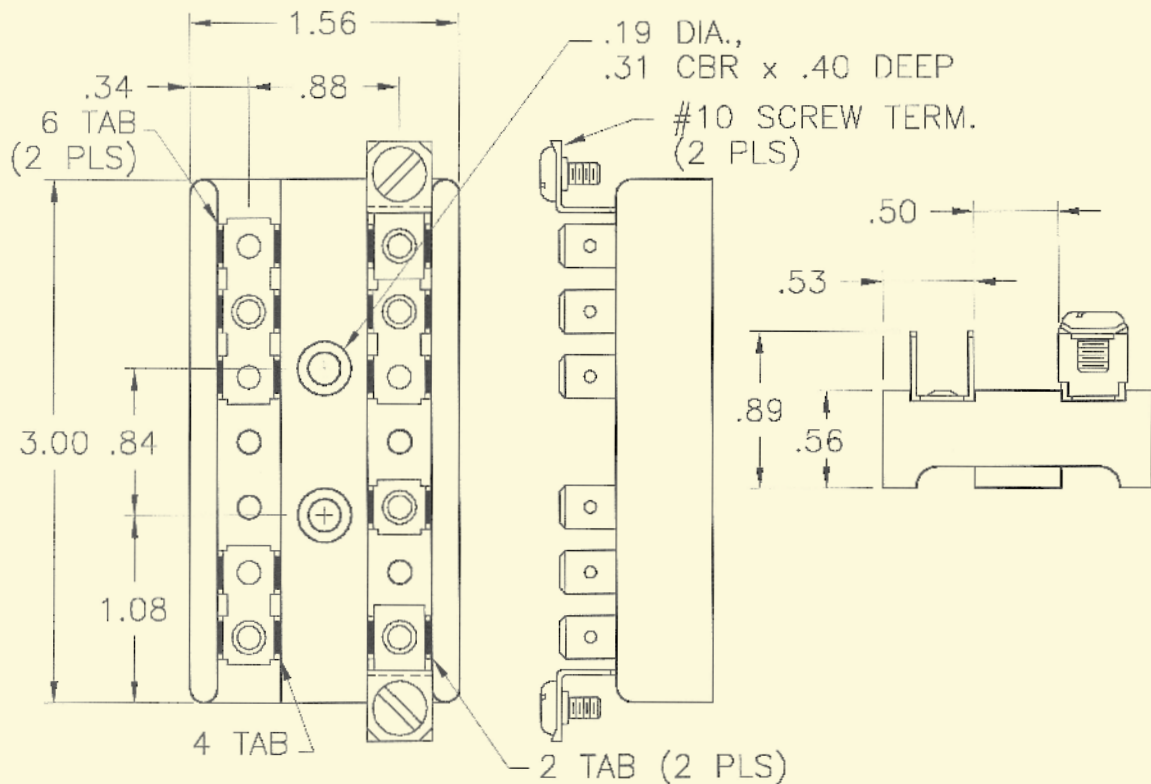
Stocked components permit almost off-the-shelf shipment of every model of block. You'll also enjoy substantial savings over custom fabricated terminal boards, and no tooling charge.

The terminal arrangements shown are just a few of several hundred combinations available. While quick-connect tabs shown are .250 X .032, most styles are also available in .187 X .020.

Quality hi-temp U.L. listed phenolic molded base is rated for 150°C. Every electrical spacing exceeds 3/8". The elevated base gives greater moisture protection.

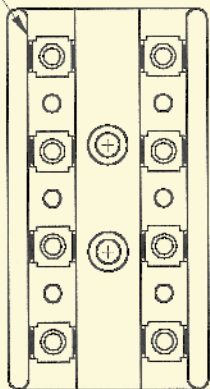


# Internal Wiring Junction Blocks **cont.**



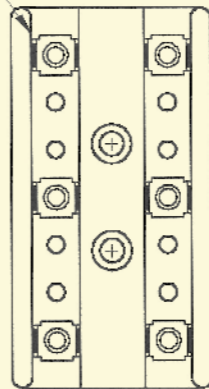
ELEC-TRON PART NO. ESB2-101-610 SHOWN

2 TAB  
(8 PLS)



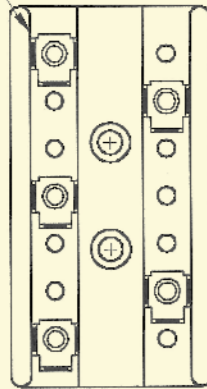
ESB2-1-1

2 TAB  
(6 PLS)



ESB2-324-324

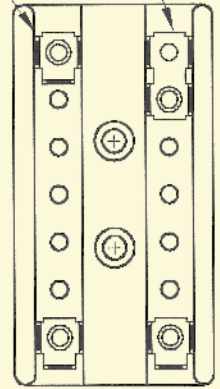
3 TAB  
(5 PLS)



ESB2-351-400

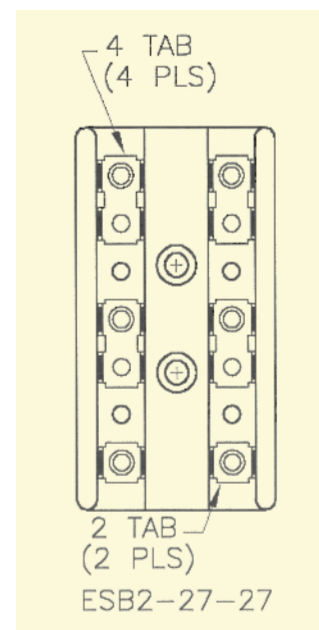
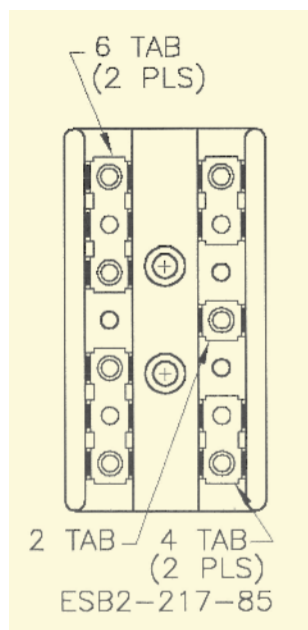
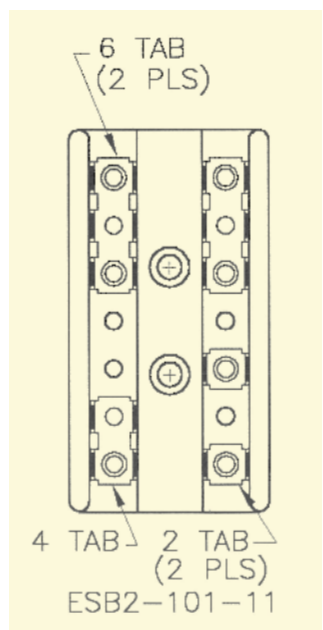
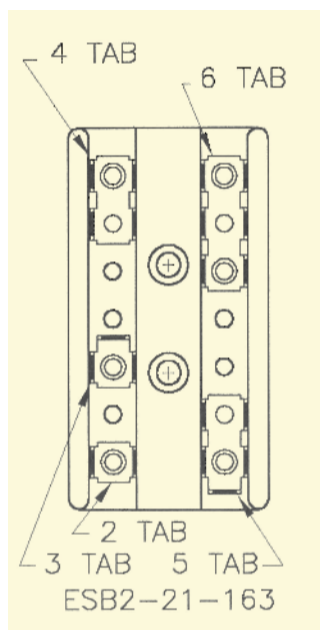
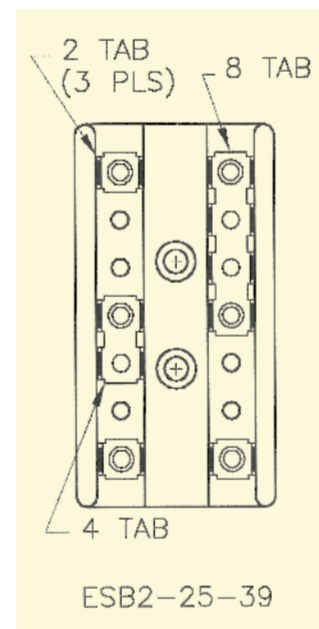
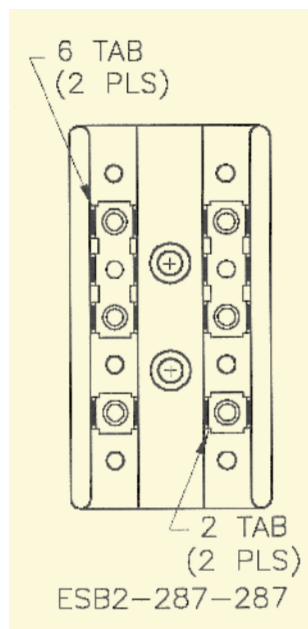
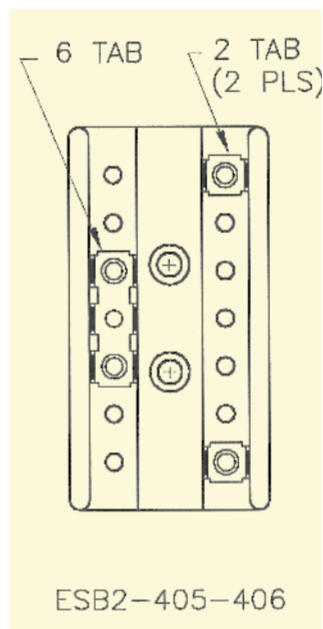
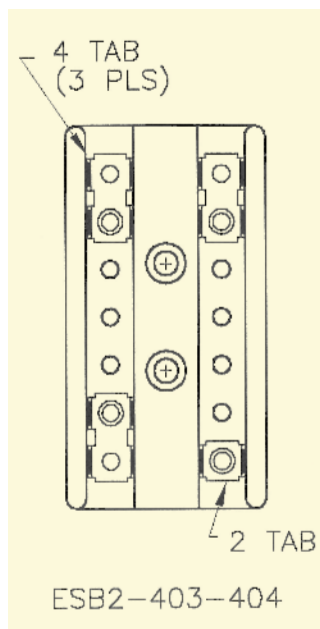
3 TAB  
(3 PLS)

4 TAB

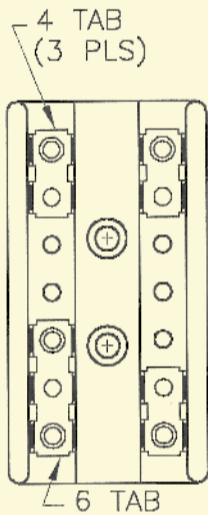


ESB2-401-402

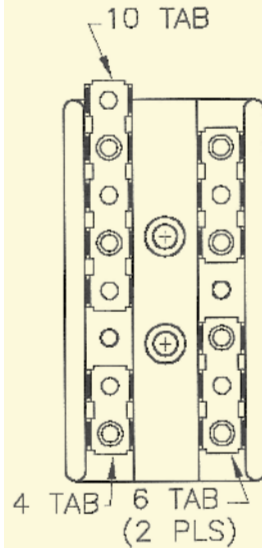




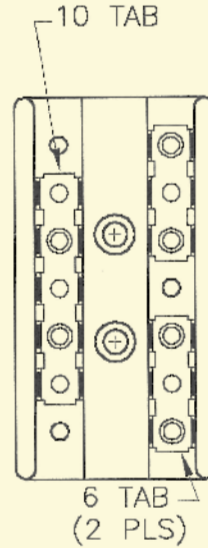
# Internal Wiring Junction Blocks cont.



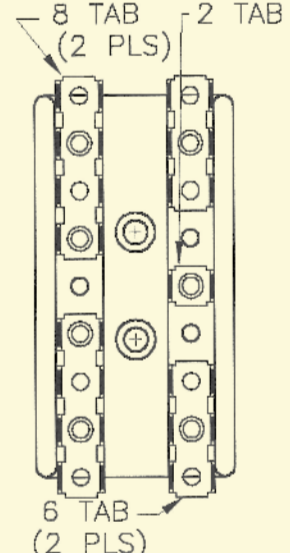
ESB2-215-403



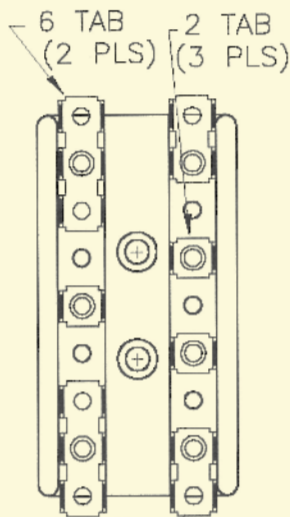
ESB2-103-217



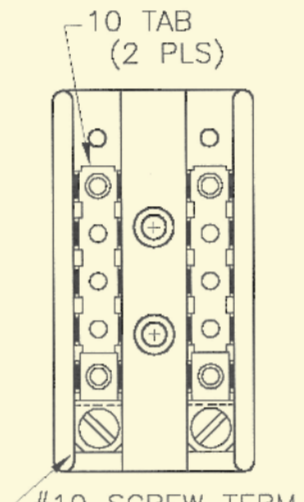
ESB2-323-217



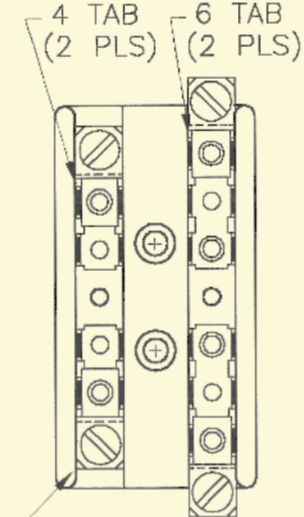
ESB2-256-223



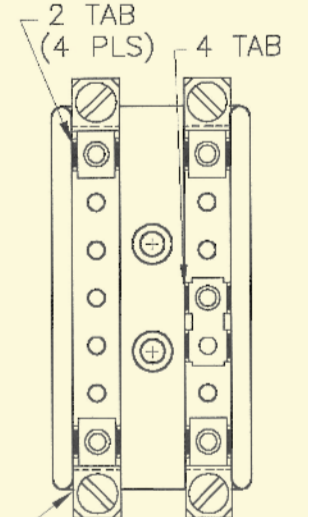
ESB2-223-106



ESB2-796-796



ESB2-1322-1284



ESB2-1500-1214



## EL Series Terminal Blocks

The EL Series terminal block was created especially for the OEM manufacturer requiring a compact and highly cost-efficient single-row barrier-style block with various combinations of quick-connect and screw terminals.

Especially suitable where high density, in-line connections are needed, the EL Series fits internal factory wiring applications requiring from 1 to 12 poles. Over 35 different terminal arrangements are available at each pole, with 1 to 6 quick-connect tabs per pole.

Terminals that are .032" X .250" male tabs of tin plated brass are riveted to the base. All connectors meet requirements of NEMA DC-2, U.L. 310 and 1059.

Standard terminals are available in dual tab and single tab configurations, straight or formed 45 degrees or 90 degrees. Up to three terminals may be combined on a single pole, yielding from 1 to 6 tabs per pole.

Using pre-assembled integral jumpers, 2 or more poles may be made common.

The plastic base is molded of high-temperature phenolic, U.L. rated 94V-0, 150°C.



Two .175" diameter mounting holes are provided on each assembly. Mounting holes are normally furnished at each end of the block, but may be located at any position based on 7/16" increments.

Ratings: U.L. and C.S.A.

Commercial appliances: 20 amp-250 volts

General industrial: 10 amp-300 volts

White ink stamped terminal identification markings, to customer's specification, are available as an extra cost option.

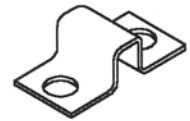
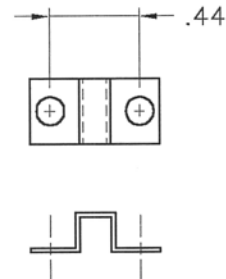
The space-saving EL Series is interchangeable with other manufacturers' 7/16" barrier blocks, and offers substantial cost and delivery savings.



# Internal Wiring Junction Blocks **cont.**

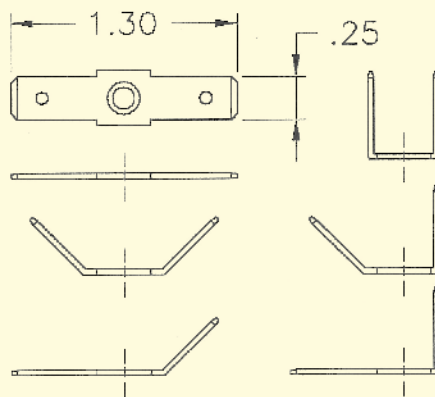
## Jumpers

Pre-assembled integral jumpers are available to common two or more poles, permitting up to 12 electrically common connections on two poles, 18 on three poles, etc.

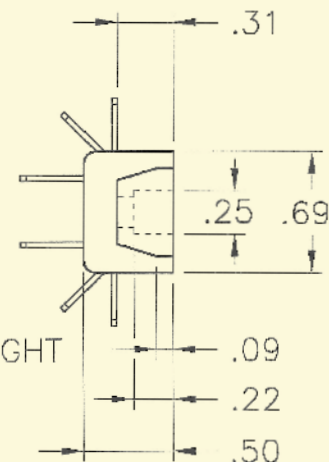
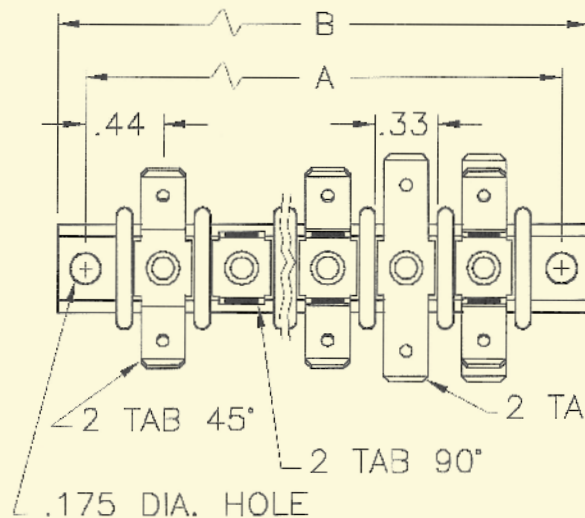
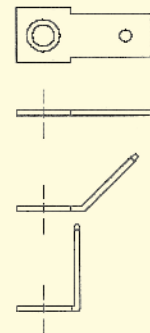


### TERMINAL STYLES AVAILABLE

#### DUAL TABS



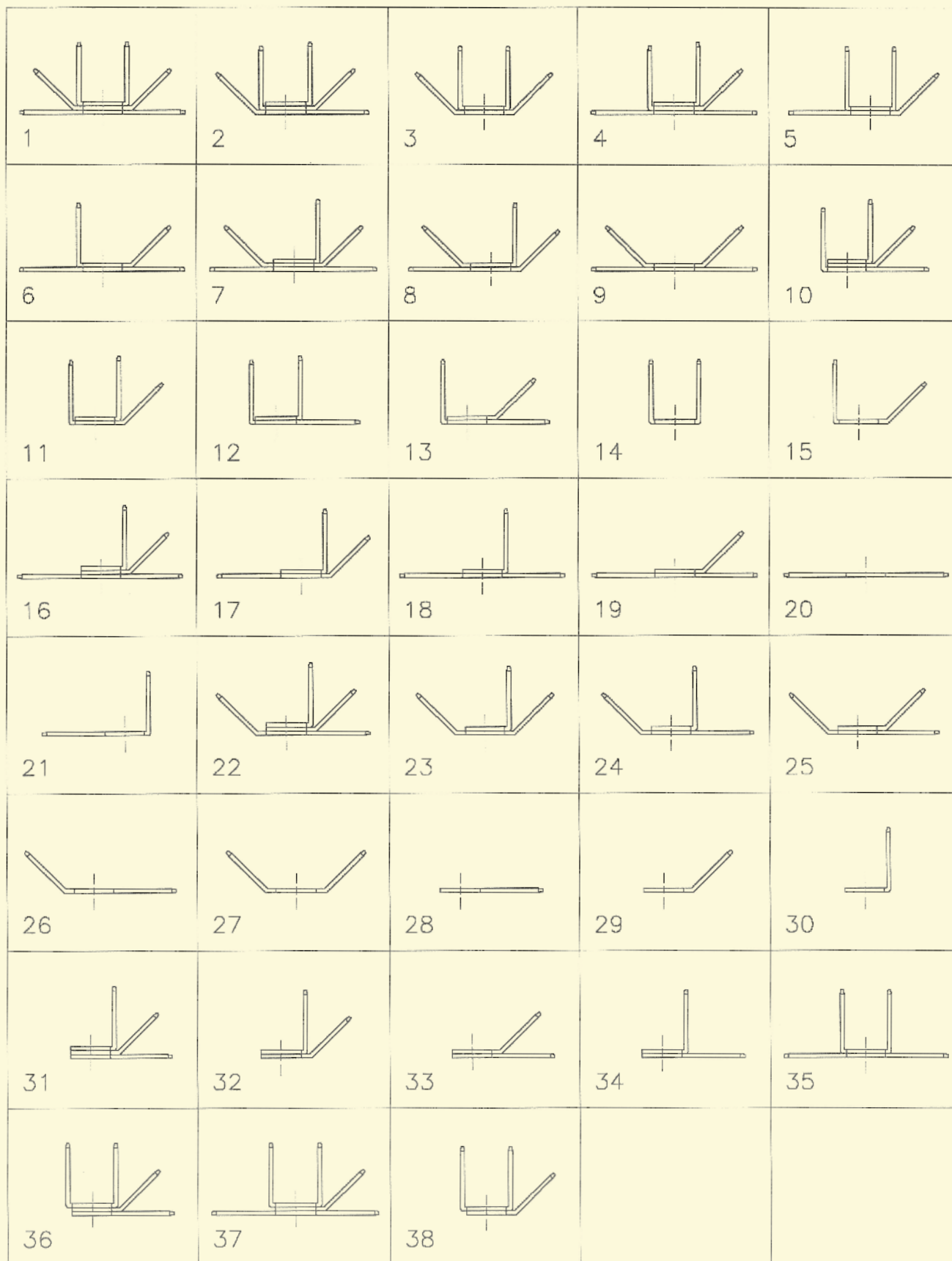
#### SINGLE TABS



NO. OF POLES	1	2	3	4	5	6	7	8	9	10	11	12
A DIMENSIONS	.88	1.31	1.75	2.19	2.63	3.06	3.50	3.94	4.38	4.81	5.25	5.69
B DIMENSIONS	1.19	1.63	2.06	2.50	2.94	3.38	3.81	4.25	4.69	5.13	5.56	6.00



## QUICK CONNECT TERMINAL COMBINATIONS



# Internal Wiring Junction Blocks **cont.**

## ELD Series Terminal Blocks

The ELD Series is a compact double-row style barrier block for applications requiring a row of screw terminals in conjunction with branch circuit quick-connect terminals.

This series is especially designed for field wiring to quick-connect factory wiring terminals, and may be used as an internal junction block for factory wired branch circuits.

Over 44 different terminal arrangements are available at each pole.

This Series is also available with quick-connect terminals only.

The ELD Series is NOT available with double screw terminals on a pole.

All screw terminals are #6-32, with plated steel wire binding screws as standard. Plain or plated brass screws are optional at extra cost.

All quick-connect terminals are .032" X .250" male tabs, tin plated brass. All tabs meet requirements of NEMA DC-2, U.L. 310 and 1059.

Quick-connect tabs are available in single and double tab styles, straight or formed 45 degrees or 90 degrees. Up to three terminals may be combined on a pole.

The plastic base is molded of high temperature phenolic, U.L. rated 94V-O, 150°C.



Four .175" diameter mounting holes are provided on each block, two holes on each end, based on standard center-to-center increments of 7/16".

Commercial appliances: 20 amp-250 volts  
General industrial: 10 amp-300 volts

Terminal identification markings to customer specifications are available at an extra charge.

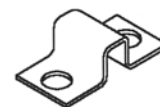
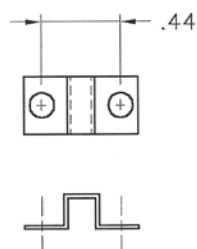
The ELD Series is interchangeable with other manufacturers' barrier blocks with 7/16" spacing.



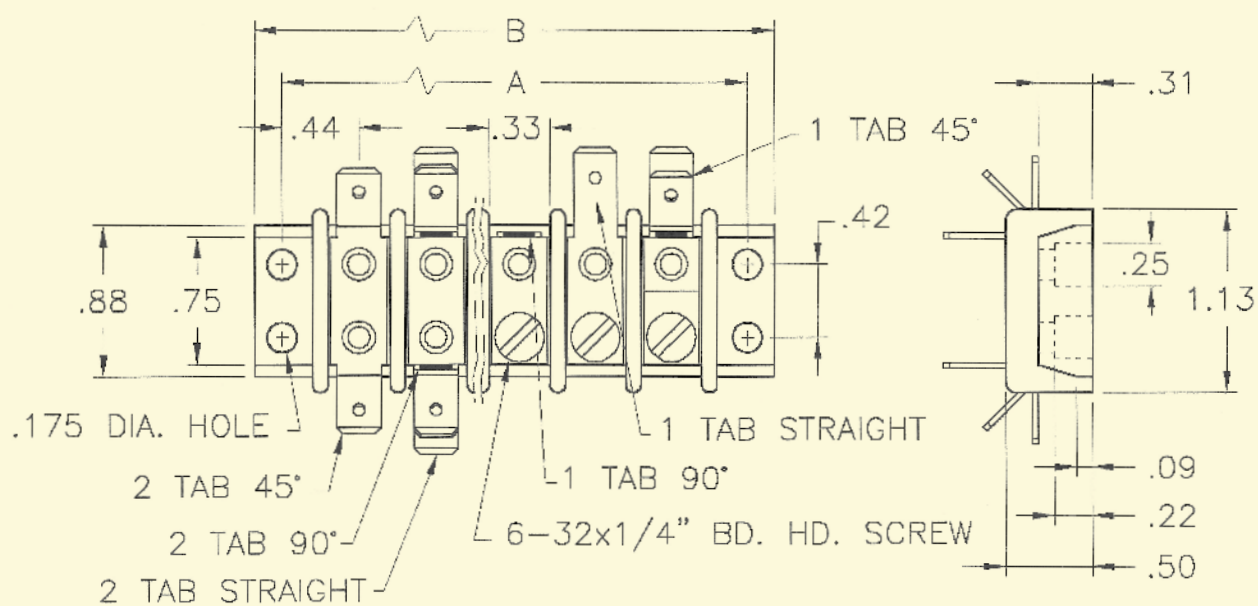
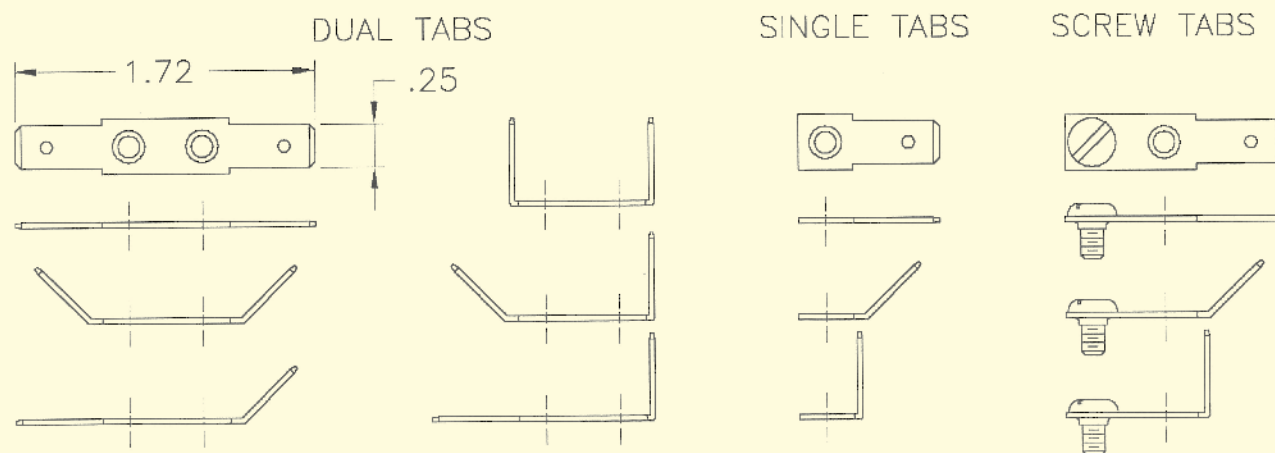


# Jumpers

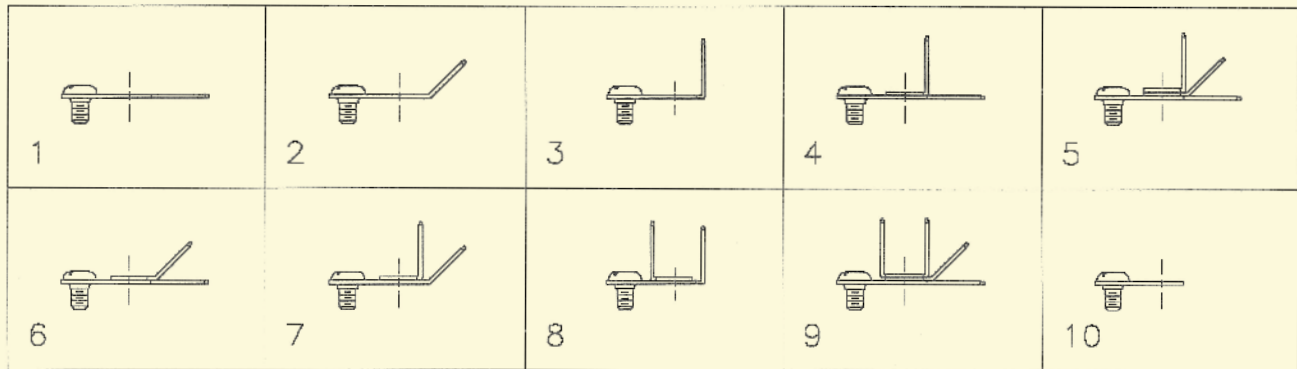
Pre-assembled integral jumpers are available to common two or more poles, permitting up to 12 electrically common connections on two poles, 18 on three poles, etc.



## TERMINAL STYLES AVAILABLE



NO. OF POLES	1	2	3	4	5	6	7	8	9	10	11	12
A DIMENSIONS	.88	1.31	1.75	2.19	2.63	3.06	3.50	3.94	4.38	4.81	5.25	5.69
B DIMENSIONS	1.19	1.63	2.06	2.50	2.94	3.38	3.81	4.25	4.69	5.13	5.56	6.00

**SCREW TERMINAL COMBINATIONS**

**QUICK CONNECT TERMINAL COMBINATIONS**


## EL and ELD Series Marking

Elec-Tron offers two types of terminal identification marking for applications where terminals must be identified to facilitate the wiring.

### Marker strips

Where it is impractical to mark directly onto the plastic blocks, separate “marker strips” may be used. Strips of 1/32” thick black phenolic laminate mount under the terminal block and extend beyond the front edge of the block, providing a separate surface for imprinting numbers and characters in white etching-type ink.

Marker strips are printed to your specifications from the drawing you supply.



### Block printing

The most economical type of marking is stamping the characters directly onto the face of the molded block. This process uses special rubber printing plates and etching-type white ink.

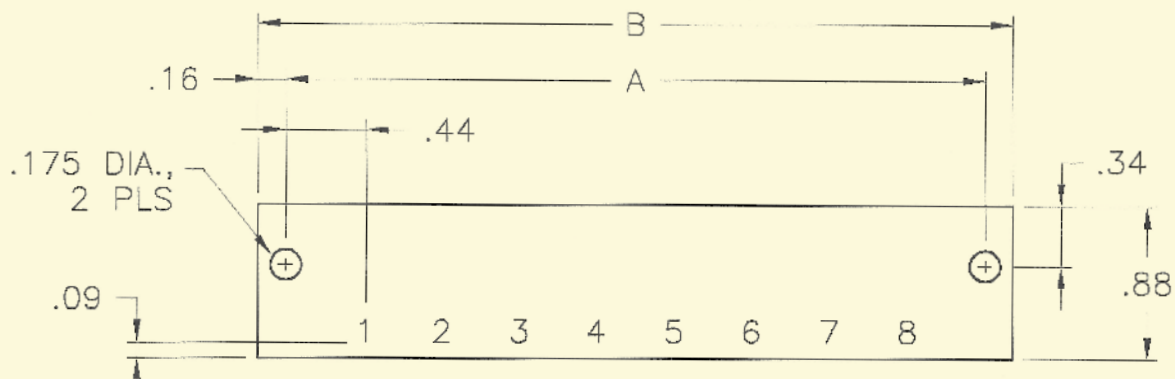
To specify this type of marking, you must provide Elec-Tron with a drawing indicating the exact characters and location of the printing on the block.



# Internal Wiring Junction Blocks cont.



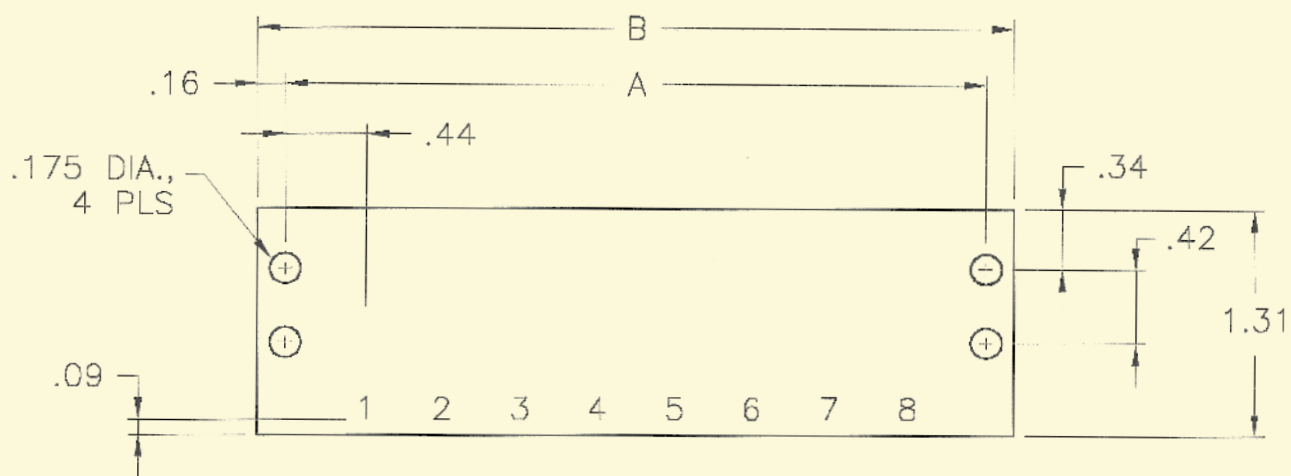
EL MARKER STRIP



NO. OF POLES	1	2	3	4	5	6	7	8	9	10	11	12
A DIMENSIONS	.88	1.31	1.75	2.19	2.63	3.06	3.50	3.94	4.38	4.81	5.25	5.69
B DIMENSIONS	1.19	1.63	2.06	2.50	2.94	3.38	3.81	4.25	4.69	5.13	5.56	6.00

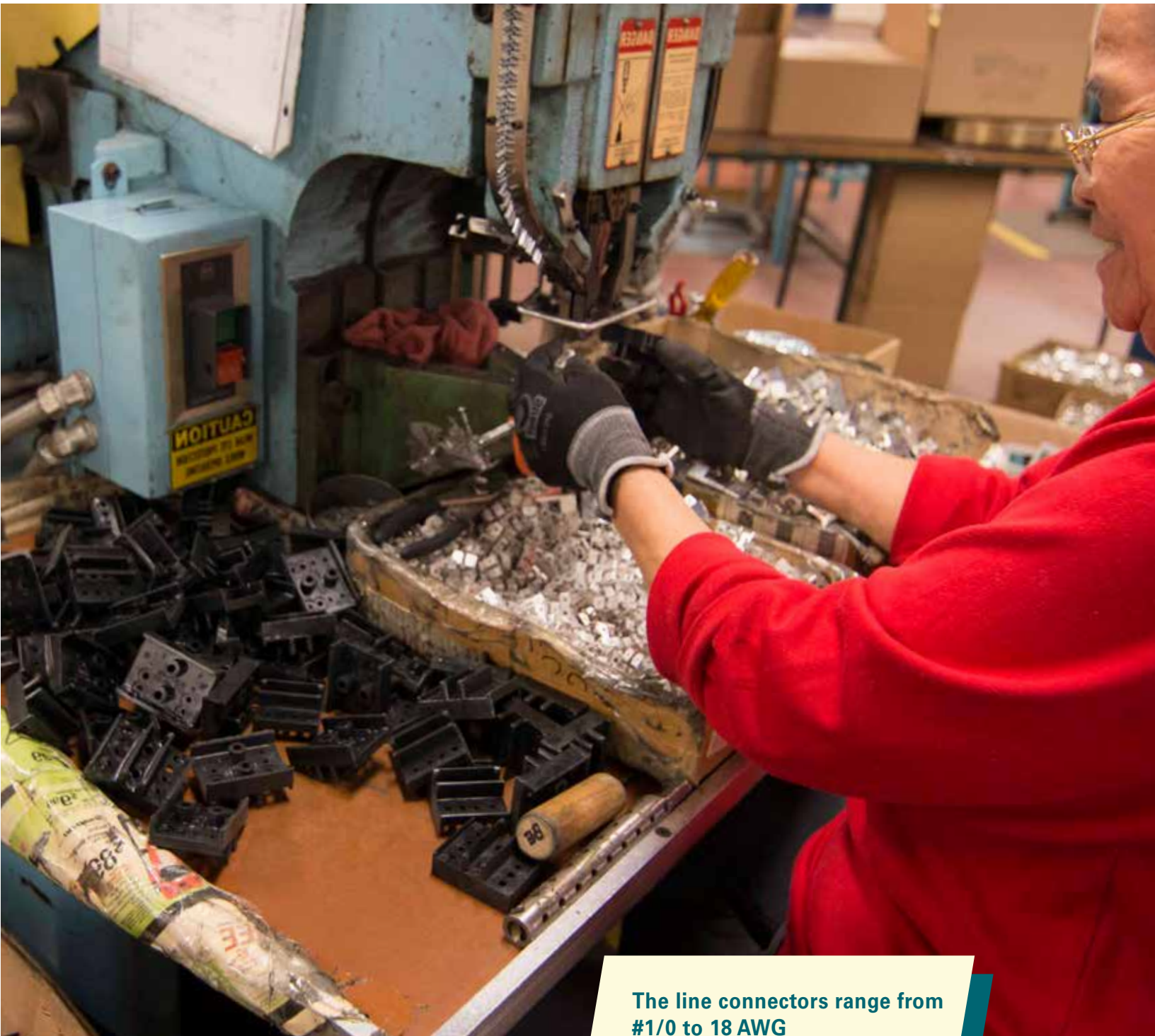


ELD MARKER STRIP



NO. OF POLES	1	2	3	4	5	6	7	8	9	10	11	12
A DIMENSIONS	.88	1.31	1.75	2.19	2.63	3.06	3.50	3.94	4.38	4.81	5.25	5.69
B DIMENSIONS	1.19	1.63	2.06	2.50	2.94	3.38	3.81	4.25	4.69	5.13	5.56	6.00

# Power Terminal Blocks



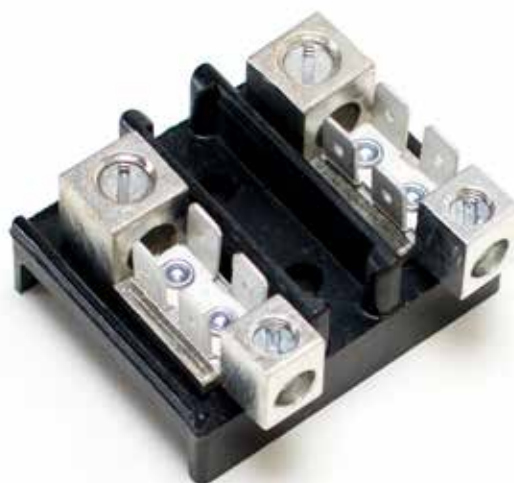
The line connectors range from  
#1/0 to 18 AWG



## EB Series Power Terminal Blocks

The EB Series two-pole power blocks provide line connectors ranging from screw terminals to lugs for #1/0 conductors.

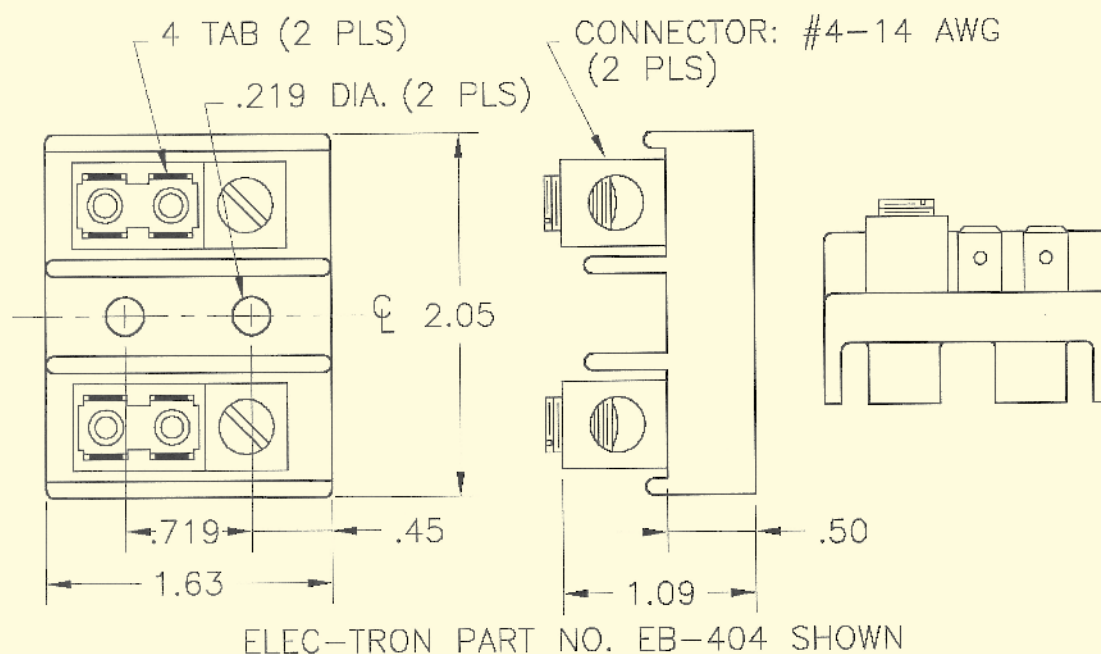
These input terminals are coupled with various combinations of multiple quick-connect tabs and/or binding screw or pressure screw load connectors. You have nearly 100 models from which to choose, so one will be just right for you.





Catalog Number	Line Connections	Load Connections
EB-102	6-8 AWG	.250 x .032 Quick Connect 2 Tabs
EB-103	6-8 AWG	.250 x .032 Quick Connect 3 Tabs
EB-104	6-8 AWG	.250 x .032 Quick Connect 4 Tabs
EB-105	6-8 AWG	.250 x .032 Quick Connect 5 Tabs
EB-106	6-8 AWG	.250 x .032 Quick Connect 6 Tabs
EB-109	6-8 AWG	#10 Screw Terminal Plus .250 x .032 Quick Connect 2 Tabs
EB-110	6-8 AWG	#10 Screw Terminal Plus .250 x .032 Quick Connect 3 Tabs
EB-112	6-8 AWG	#10 Teeter Terminal
EB-113	6-8 AWG	#10 Teeter Terminal .250 x .032 Quick Connect 2 Tabs

Catalog Number	Line Connections	Load Connections
EB-200	2/0-14 AWG CU or AL	2/0-14 AWD CU or AL



Catalog Number	Line Connections	Load Connections
EB-304	4-14 AWG CU or AL	.250 x .032 Quick Connect 4 Tabs
EB-404	2-14 AWG CU or AL	.250 x .032 Quick Connect 4 Tabs
EB-504	1/0-14 AWG CU or AL	.250 x .032 Quick Connect 4 Tabs
EB-305	4-14 AWG CU or AL	.250 x .032 Quick Connect 5 Tabs
EB-405	2-14 AWG CU or AL	.250 x .032 Quick Connect 5 Tabs
EB-505	1/0-14 AWG CU or AL	.250 x .032 Quick Connect 5 Tabs
EB-306	4-14 AWG CU or AL	.250 x .032 Quick Connect 6 Tabs
EB-406	2-14 AWG CU or AL	.250 x .032 Quick Connect 6 Tabs
EB-506	1/0-14 AWG CU or AL	.250 x .032 Quick Connect 6 Tabs
EB-407	2-14 AWG CU or AL	.250 x .032 Quick Connect 8 Tabs
EB-507	1/0-14 AWG CU or AL	.250 x .032 Quick Connect 8 Tabs





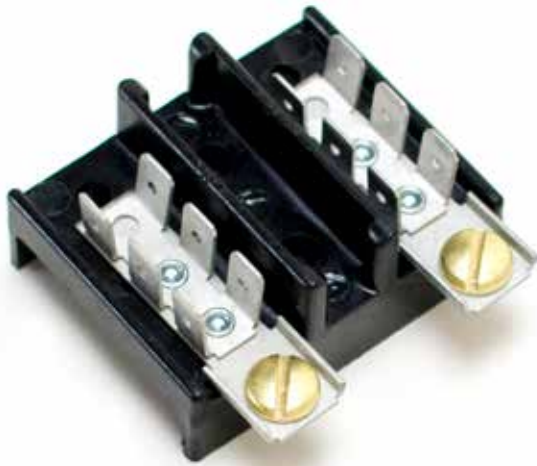
Catalog Number	Line Connections	Load Connections
EB-309	4-14 AWG CU or AL	#10 Screw Terminal Plus .250 x .032 Quick Connect 2 Tabs
EB-409	2-14 AWG CU or AL	#10 Screw Terminal Plus .250 x .032 Quick Connect 2 Tabs
EB-509	1/0-14 AWG CU or AL	#10 Screw Terminal Plus .250 x .032 Quick Connect 2 Tabs
EB-310	4-14 AWG CU or AL	#10 Screw Terminal Plus .250 x .032 Quick Connect 3 Tabs
EB-410	2-14 AWG CU or AL	#10 Screw Terminal Plus .250 x .032 Quick Connect 3 Tabs
EB-510	1/0-14 AWG CU or AL	#10 Screw Terminal Plus .250 x .032 Quick Connect 3 Tabs
EB-311	4-14 AWG CU or AL	#10 Screw Terminal Plus .250 x .032 Quick Connect 4 Tabs
EB-411	2-14 AWG CU or AL	#10 Screw Terminal Plus .250 x .032 Quick Connect 4 Tabs
EB-511	1/0-14 AWG CU or AL	#10 Screw Terminal Plus .250 x .032 Quick Connect 4 Tabs

Catalog Number	Line Connections	Load Connections
EB-316	4-14 AWG CU or AL	4-14 AWG, CU or AL, 2 Hole Connector
EB-416	2-14 AWG CU or AL	4-14 AWG, CU or AL, 2 Hole Connector
EB-516	1/0-14 AWG CU or AL	4-14 AWG, CU or AL, 2 Hole Connector
EB-317	4-14 AWG CU or AL	4-14 AWG, CU or AL, 3 Hole Connector
EB-417	2-14 AWG CU or AL	4-14 AWG, CU or AL, 3 Hole Connector
EB-517	1/0-14 AWG CU or AL	4-14 AWG, CU or AL, 3 Hole Connector
EB-318	4-14 AWG CU or AL	4-14 AWG, CU or AL, 4 Hole Connector
EB-418	2-14 AWG CU or AL	4-14 AWG, CU or AL, 4 Hole Connector
EB-518	1/0-14 AWG CU or AL	4-14 AWG, CU or AL, 4 Hole Connector



Catalog Number	Line Connections	Load Connections
EB-319	4-14 AWG CU or AL	4-14 AWG, CU or AL, Connector
EB-419	2-14 AWG CU or AL	4-14 AWG, CU or AL, Connector
EB-519	1/0-14 AWG CU or AL	4-14 AWG, CU or AL, Connector
EB-320	4-14 AWG CU or AL	4-14 AWG, CU or AL, Connector Plus .250 x .032 Quick Connect, 2 Tabs
EB-420	2-14 AWG CU or AL	4-14 AWG, CU or AL, Connector Plus .250 x .032 Quick Connect, 2 Tabs
EB-520	1/0-14 AWG CU or AL	4-14 AWG, CU or AL, Connector Plus .250 x .032 Quick Connect, 2 Tabs
EB-321	4-14 AWG CU or AL	4-14 AWG, CU or AL, Connector Plus .250 x .032 Quick Connect, 3 Tabs
EB-421	2-14 AWG CU or AL	4-14 AWG, CU or AL, Connector Plus .250 x .032 Quick Connect, 3 Tabs
EB-521	1/0-14 AWG CU or AL	4-14 AWG, CU or AL, Connector Plus .250 x .032 Quick Connect, 3 Tabs
EB-322	4-14 AWG CU or AL	4-14 AWG, CU or AL, Connector Plus .250 x .032 Quick Connect, 4 Tabs

Catalog Number	Line Connections	Load Connections
EB-422	2-14 AWG CU or AL	4-14 AWG, CU or AL, Connector Plus .250 x .032 Quick Connect, 4 Tabs
EB-522	1/0-14 AWG CU or AL	4-14 AWG, CU or AL, Connector Plus .250 x .032 Quick Connect, 4 Tabs
EB-423	2-14 AWG CU or AL	2-14 AWG, CU or AL, Connector
EB-523	1/0-14 AWG CU or AL	2-14 AWG, CU or AL, Connector
EB-424	2-14 AWG CU or AL	2-14 AWG, CU or AL, Connector Plus .250 x .032 Quick Connect, 2 Tabs
EB-524	1/0-14 AWG CU or AL	2-14 AWG, CU or AL, Connector Plus .250 x .032 Quick Connect, 2 Tabs
EB-425	2-14 AWG CU or AL	2-14 AWG, CU or AL, Connector Plus .250 x .032 Quick Connect, 3 Tabs
EB-525	1/0-14 AWG CU or AL	2-14 AWG, CU or AL, Connector Plus .250 x .032 Quick Connect, 3 Tabs
EB-527	1/0-14 AWG CU or AL	1/0-14 AWG, CU or AL, Connector
EB-528	1/0-14 AWG CU or AL	1/0-14 AWG, CU or AL, Connector Plus .250 x .032 Quick Connect, 2 Tabs
EB-529	1/0-14 AWG CU or AL	1/0-14 AWG, CU or AL, Connector Plus .250 x .032 Quick Connect, 3 Tabs



Catalog Number	Line Connections	Load Connections
EB-602	#10 Screw Terminal	.250 x .032 Quick Connect 2 Tabs
EB-603	#10 Screw Terminal	.250 x .032 Quick Connect 3 Tabs
EB-604	#10 Screw Terminal	.250 x .032 Quick Connect 4 Tabs
EB-605	#10 Screw Terminal	.250 x .032 Quick Connect 5 Tabs
EB-606	#10 Screw Terminal	.250 x .032 Quick Connect 6 Tabs
EB-607	#10 Screw Terminal	.250 x .032 Quick Connect 8 Tabs
EB-609	#10 Screw Terminal	#10 Screw Terminal Plus .250 x .032 Quick Connect 2 Tabs
EB-610	#10 Screw Terminal	#10 Screw Terminal Plus .250 x .032 Quick Connect 3 Tabs
EB-611	#10 Screw Terminal	#10 Screw Terminal Plus .250 x .032 Quick Connect 4 Tabs

Catalog Number	Line Connections	Load Connections
EB-80	#10 Screw Terminal	.250 x .032 Quick Connect 4 Tabs

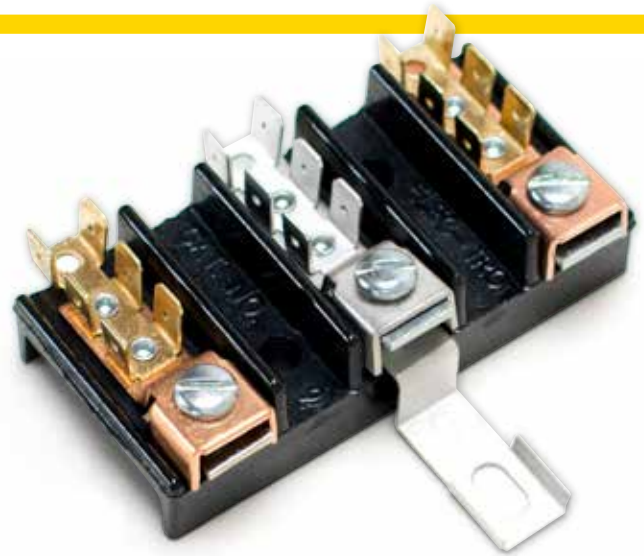


## ERB Series Electric Range and General Purpose Power Entrance Blocks

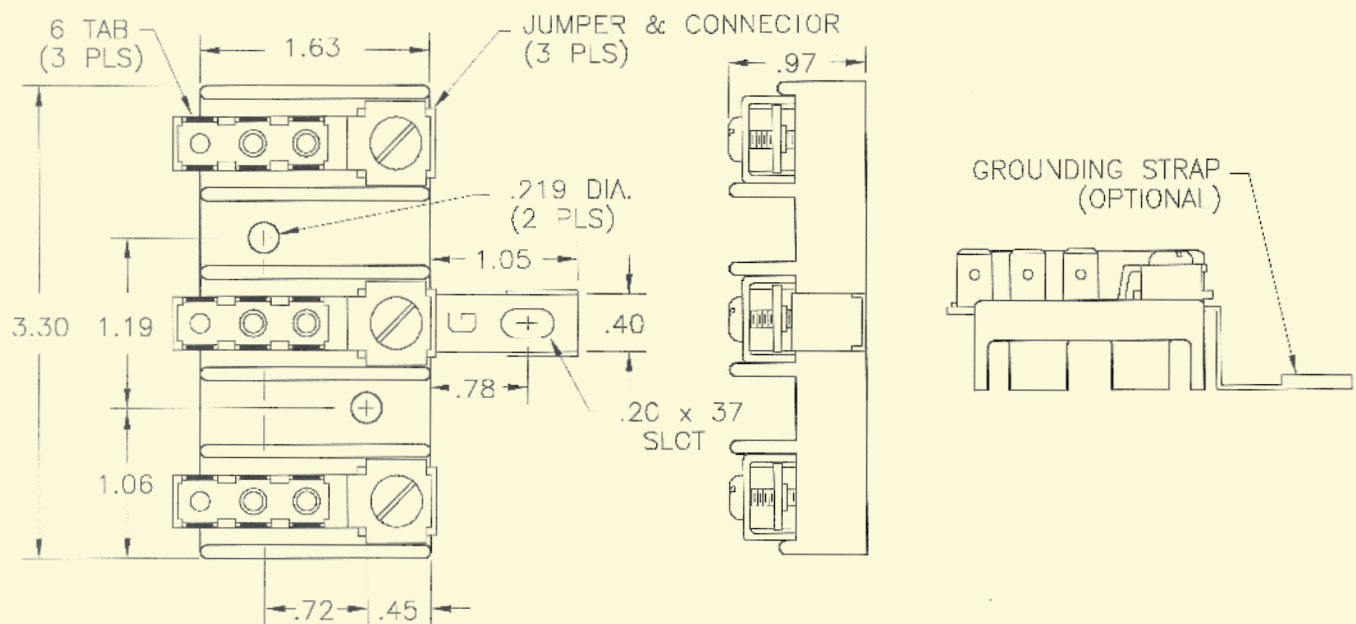
The ERB Series three-pole power terminal block offers the same wide selection of terminals and connectors as the EB Series.

Elec-Tron provides the ideal junction for field wiring with your internal circuits.

Available in entrance wire ranges of 6-8, 4-14, 2-14, and 0-14 AWG, and in 2- or 3-pole, these quick-connect terminals permit fast, efficient, economical branch circuit connections.



Notes: Quick-connect tabs shown are .250 X .032. All models shown are available with or without the optional grounding strap. Addition of the suffix letter "G" to the catalog number designates addition of the grounding strap.



ELEC-TRON PART NO. ERB-4G SHOWN



Catalog Number	Line Connections	Left	Load Connections Center	Right
ERB-1	#6-8 AWG CU	4 Q.C. Tabs	4 Q.C. Tabs	4 Q.C. Tabs
ERB-1A	#6-8 AWG CU	4 Q.C. Tabs	2 Q.C. Tabs	4 Q.C. Tabs
ERB-1C	#6-8 AWG CU	4 Q.C. Tabs		4 Q.C. Tabs
ERB-2	#6-8 AWG CU	5 Q.C. Tabs	5 Q.C. Tabs	5 Q.C. Tabs
ERB-3	#6-8 AWG CU	5 Q.C. Tabs	4 Q.C. Tabs	5 Q.C. Tabs
ERB-4	#6-8 AWG CU	6 Q.C. Tabs	6 Q.C. Tabs	6 Q.C. Tabs
ERB-5	#6-8 AWG CU	6 Q.C. Tabs	5 Q.C. Tabs	6 Q.C. Tabs
ERB-6	#6-8 AWG CU	6 Q.C. Tabs	4 Q.C. Tabs	6 Q.C. Tabs
ERB-7	#6-8 AWG CU	4 Q.C. Tabs	5 Q.C. Tabs	4 Q.C. Tabs
ERB-8	#6-8 AWG CU	4 Q.C. Tabs	6 Q.C. Tabs	4 Q.C. Tabs
ERB-9	#6-8 AWG CU	5 Q.C. Tabs	6 Q.C. Tabs	5 Q.C. Tabs
ERB-10	#6-8 AWG CU	2 Q.C. Tabs	2 Q.C. Tabs	2 Q.C. Tabs
ERB-11	#6-8 AWG CU	2 Q.C. Tabs #8 Screw	2 Q.C. Tabs #8 Screw	2 Q.C. Tabs #8 Screw
ERB-12	#6-8 AWG CU	#10 Screw	#10 Screw	#10 Screw
ERB-12T	#6-8 AWG CU	#10 SEMS	#10 SEMS	#10 SEMS

Catalog Number	Line Connections	Left	Load Connections Center	Right
ERB-36	#4-14 AWG CU or AL	2 Q.C. Tabs #10 Screw Tab	2 Q.C. Tabs #10 Screw Tab	2 Q.C. Tabs #10 Screw Tab
ERB-362 •	#4-14 AWG CU or AL	2 Q.C. Tabs #10 Screw Tab		2 Q.C. Tabs #10 Screw Tab
ERB-364 ••	#4-14 AWG CU or AL	2 Q.C. Tabs #10 Screw Tab	2 Q.C. Tabs #10 Screw Tab	
ERB-46	#2-14 AWG CU or AL	2 Q.C. Tabs #10 Screw Tab	2 Q.C. Tabs #10 Screw Tab	2 Q.C. Tabs #10 Screw Tab
ERB-462 •	#2-14 AWG CU or AL	2 Q.C. Tabs #10 Screw Tab		2 Q.C. Tabs #10 Screw Tab
ERB-464 ••	#2-14 AWG CU or AL	2 Q.C. Tabs #10 Screw Tab	2 Q.C. Tabs #10 Screw Tab	
ERB-56	#1/0-14 AWG CU or AL	2 Q.C. Tabs #10 Screw Tab	2 Q.C. Tabs #10 Screw Tab	2 Q.C. Tabs #10 Screw Tab
ERB-562 •	#1/0-14 AWG CU or AL	2 Q.C. Tabs #10 Screw Tab		2 Q.C. Tabs #10 Screw Tab
ERB-564 ••	#1/0-14 AWG CU or AL	2 Q.C. Tabs #10 Screw Tab	2 Q.C. Tabs #10 Screw Tab	
ERB-38	#4-14 AWG CU or AL	3 Q.C. Tabs #10 Screw Tab	3 Q.C. Tabs #10 Screw Tab	3 Q.C. Tabs #10 Screw Tab
ERB-382 •	#4-14 AWG CU or AL	3 Q.C. Tabs #10 Screw Tab		3 Q.C. Tabs #10 Screw Tab
ERB-384 ••	#4-14 AWG CU or AL	3 Q.C. Tabs #10 Screw Tab	3 Q.C. Tabs #10 Screw Tab	
ERB-48	#2-14 AWG CU or AL	3 Q.C. Tabs #10 Screw Tab	3 Q.C. Tabs #10 Screw Tab	3 Q.C. Tabs #10 Screw Tab
ERB-482 •	#2-14 AWG CU or AL	3 Q.C. Tabs #10 Screw Tab		3 Q.C. Tabs #10 Screw Tab
ERB-484 ••	#2-14 AWG CU or AL	3 Q.C. Tabs #10 Screw Tab	3 Q.C. Tabs #10 Screw Tab	
ERB-58	#1/0-14 AWG CU or AL	3 Q.C. Tabs #10 Screw Tab	3 Q.C. Tabs #10 Screw Tab	3 Q.C. Tabs #10 Screw Tab
ERB-582 •	#1/0-14 AWG CU or AL	3 Q.C. Tabs #10 Screw Tab		3 Q.C. Tabs #10 Screw Tab
ERB-584 ••	#1/0-14 AWG CU or AL	3 Q.C. Tabs #10 Screw Tab	3 Q.C. Tabs #10 Screw Tab	
• NO LINE CONNECTOR ON CENTER POLE    •• NO LINE CONNECTOR ON RIGHT POLE				





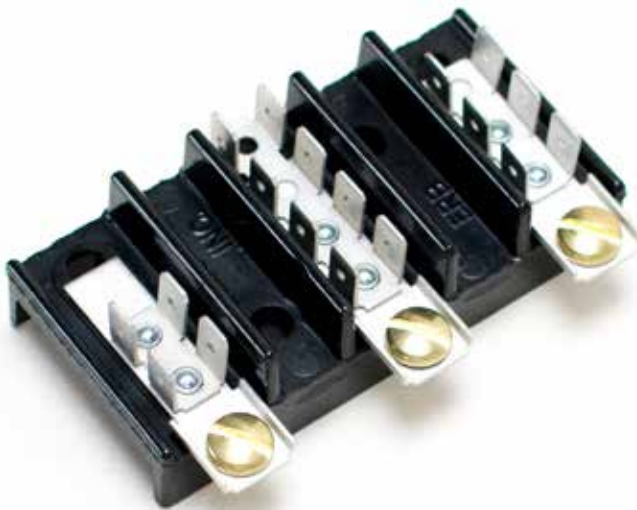
Catalog Number	Line Connections	Left	Load Connections Center	Right
ERB-30	#4-14 AWG CU or AL	4 Q.C. Tabs	4 Q.C. Tabs	4 Q.C. Tabs
ERB-302 •	#4-14 AWG CU or AL	4 Q.C. Tabs		4 Q.C. Tabs
ERB-304 ••	#4-14 AWG CU or AL	4 Q.C. Tabs	4 Q.C. Tabs	
ERB-31	#4-14 AWG CU or AL	5 Q.C. Tabs	5 Q.C. Tabs	5 Q.C. Tabs
ERB-312 •	#4-14 AWG CU or AL	5 Q.C. Tabs		5 Q.C. Tabs
ERB-314 ••	#4-14 AWG CU or AL	5 Q.C. Tabs	5 Q.C. Tabs	
ERB-32	#4-14 AWG CU or AL	6 Q.C. Tabs	6 Q.C. Tabs	6 Q.C. Tabs
ERB-322 •	#4-14 AWG CU or AL	6 Q.C. Tabs		6 Q.C. Tabs
ERB-324 ••	#4-14 AWG CU or AL	6 Q.C. Tabs	6 Q.C. Tabs	
ERB-33	#4-14 AWG CU or AL	6 Q.C. Tabs	4 Q.C. Tabs	6 Q.C. Tabs
ERB-334	#4-14 AWG CU or AL	6 Q.C. Tabs	4 Q.C. Tabs	
ERB-35	#4-14 AWG CU or AL	5 Q.C. Tabs	4 Q.C. Tabs	5 Q.C. Tabs
ERB-354 ••	#4-14 AWG CU or AL	5 Q.C. Tabs	4 Q.C. Tabs	
ERB-37	#4-14 AWG CU or AL	4 Q.C. Tabs		4 Q.C. Tabs
ERB-374 ••	#4-14 AWG CU or AL	4 Q.C. Tabs		
ERB-40	#2-14 AWG CU or AL	4 Q.C. Tabs	4 Q.C. Tabs	4 Q.C. Tabs
ERB-402 •	#2-14 AWG CU or AL	4 Q.C. Tabs		4 Q.C. Tabs
ERB-404 ••	#2-14 AWG CU or AL	4 Q.C. Tabs	4 Q.C. Tabs	
ERB-41	#2-14 AWG CU or AL	5 Q.C. Tabs	5 Q.C. Tabs	5 Q.C. Tabs
ERB-412 •	#2-14 AWG CU or AL	5 Q.C. Tabs		5 Q.C. Tabs
ERB-414 ••	#2-14 AWG CU or AL	5 Q.C. Tabs	5 Q.C. Tabs	
ERB-42	#2-14 AWG CU or AL	6 Q.C. Tabs	6 Q.C. Tabs	6 Q.C. Tabs
ERB-422 •	#2-14 AWG CU or AL	6 Q.C. Tabs		6 Q.C. Tabs
ERB-424 ••	#2-14 AWG CU or AL	6 Q.C. Tabs	6 Q.C. Tabs	
ERB-43	#2-14 AWG CU or AL	6 Q.C. Tabs	4 Q.C. Tabs	6 Q.C. Tabs
ERB-434 ••	#2-14 AWG CU or AL	6 Q.C. Tabs	4 Q.C. Tabs	
ERB-45	#2-14 AWG CU or AL	5 Q.C. Tabs	4 Q.C. Tabs	5 Q.C. Tabs
ERB-454 ••	#2-14 AWG CU or AL	5 Q.C. Tabs	4 Q.C. Tabs	
ERB-47	#2-14 AWG CU or AL	4 Q.C. Tabs		4 Q.C. Tabs
ERB-474 ••	#2-14 AWG CU or AL	4 Q.C. Tabs		
ERB-50	#1/0-14 AWG CU or AL	4 Q.C. Tabs	4 Q.C. Tabs	4 Q.C. Tabs
ERB-502 •	#1/0-14 AWG CU or AL	4 Q.C. Tabs		4 Q.C. Tabs
ERB-504 ••	#1/0-14 AWG CU or AL	4 Q.C. Tabs	4 Q.C. Tabs	
ERB-51	#1/0-14 AWG CU or AL	5 Q.C. Tabs	5 Q.C. Tabs	5 Q.C. Tabs
ERB-512 •	#1/0-14 AWG CU or AL	5 Q.C. Tabs		5 Q.C. Tabs
ERB-514 ••	#1/0-14 AWG CU or AL	5 Q.C. Tabs	5 Q.C. Tabs	
ERB-52	#1/0-14 AWG CU or AL	6 Q.C. Tabs	6 Q.C. Tabs	6 Q.C. Tabs
ERB-522 •	#1/0-14 AWG CU or AL	6 Q.C. Tabs		6 Q.C. Tabs
ERB-524 ••	#1/0-14 AWG CU or AL	6 Q.C. Tabs	6 Q.C. Tabs	
ERB-52D	#1/0-14 AWG CU or AL	6 Q.C. Tabs	6 Q.C. Tabs	6 Q.C. Tabs
ERB-53	#1/0-14 AWG CU or AL	6 Q.C. Tabs	4 Q.C. Tabs	6 Q.C. Tabs
ERB-534 ••	#1/0-14 AWG CU or AL	6 Q.C. Tabs	4 Q.C. Tabs	
ERB-53A	#1/0-14 AWG CU or AL	6 Q.C. Tabs	2 Q.C. Tabs	6 Q.C. Tabs
ERB-55	#1/0-14 AWG CU or AL	5 Q.C. Tabs	4 Q.C. Tabs	5 Q.C. Tabs
ERB-554	#1/0-14 AWG CU or AL	5 Q.C. Tabs	4 Q.C. Tabs	
ERB-57	#1/0-14 AWG CU or AL	4 Q.C. Tabs		4 Q.C. Tabs
ERB-574 ••	#1/0-14 AWG CU or AL	4 Q.C. Tabs		
• NO LINE CONNECTOR ON CENTER POLE		•• NO LINE CONNECTOR ON RIGHT POLE		

Catalog Number	Line Connections	Left	Load Connections Center	Right
ERB-34	#4-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL
ERB-342 •	#4-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL		2 Q.C. Tabs #4-14 AWG CU or AL
ERB-344 ••	#4-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL	
ERB-34A	#4-14 AWG CU or AL	#4-14 AWG CU or AL	#4-14 AWG CU or AL	#4-14 AWG CU or AL
ERB-34B	#4-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL	#4-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL
ERB-34C	#4-14 AWG CU or AL	3 Q.C. Tabs #4-14 AWG CU or AL	3 Q.C. Tabs #4-14 AWG CU or AL	3 Q.C. Tabs #4-14 AWG CU or AL
ERB-34E	#4-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL	6 Q.C. Tabs	2 Q.C. Tabs #4-14 AWG CU or AL
ERB-34H	#4-14 AWG CU or AL	4 Q.C. Tabs #4-14 AWG CU or AL	4 Q.C. Tabs #4-14 AWG CU or AL	4 Q.C. Tabs #4-14 AWG CU or AL
ERB-34Y	#4-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL	4 Q.C. Tabs #4-14 AWG CU or AL	4 Q.C. Tabs #4-14 AWG CU or AL
ERB-39	#4-14 AWG CU or AL	#4-14 AWG CU or AL		#4-14 AWG CU or AL
ERB-394 ••	#4-14 AWG CU or AL	#4-14 AWG CU or AL		
ERB-44	#2-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL
ERB-442 •	#2-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL		2 Q.C. Tabs #4-14 AWG CU or AL
ERB-444 ••	#2-14 AWG CU or AL	#4-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL	
ERB-44A	#2-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL	#4-14 AWG CU or AL	#4-14 AWG CU or AL
ERB-44B	#2-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL	#4-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL
ERB-44E	#2-14 AWG CU or AL	4 Q.C. Tabs #4-14 AWG CU or AL	4 Q.C. Tabs #4-14 AWG CU or AL	4 Q.C. Tabs #4-14 AWG CU or AL
ERB-44X	#2-14 AWG CU or AL	4 Q.C. Tabs #4-14 AWG CU or AL	4 Q.C. Tabs #4-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL
ERB-44Y	#2-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL	4 Q.C. Tabs #4-14 AWG CU or AL	4 Q.C. Tabs #4-14 AWG CU or AL
ERB-49	#2-14 AWG CU or AL	#2-14 AWG CU or AL		#2-14 AWG CU or AL
ERB-494 ••	#2-14 AWG CU or AL	#2-14 AWG CU or AL		
ERB-54	#2-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL
ERB-542 •	#1/0-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL		2 Q.C. Tabs #4-14 AWG CU or AL
ERB-544 ••	#1/0-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL	2 Q.C. Tabs #4-14 AWG CU or AL	
ERB-59	#1/0-14 AWG CU or AL	#1/0-14 AWG CU or AL		#1/0-14 AWG CU or AL
ERB-594 ••	#1/0-14 AWG CU or AL	#1/0-14 AWG CU or AL		
• NO LINE CONNECTOR ON CENTER POLE		•• NO LINE CONNECTOR ON RIGHT POLE		



Catalog Number	Line Connections	Left	Load Connections Center	Right
ERB-60		6 Q.C. Tabs	6 Q.C. Tabs	6 Q.C. Tabs
ERB-61		5 Q.C. Tabs	5 Q.C. Tabs	5 Q.C. Tabs
ERB-62		8 Q.C. Tabs	8 Q.C. Tabs	8 Q.C. Tabs
ERB-65	#10 Screw	4 Q.C. Tabs	4 Q.C. Tabs	4 Q.C. Tabs
ERB-68	#10 Screw	6 Q.C. Tabs	6 Q.C. Tabs	6 Q.C. Tabs
ERB-69	#8 Screw	8 Q.C. Tabs	8 Q.C. Tabs	8 Q.C. Tabs

Catalog Number	Line Connections	Left	Load Connections Center	Right
ERB-80	#10-32 Screw	4 Q.C. Tabs	4 Q.C. Tabs	4 Q.C. Tabs

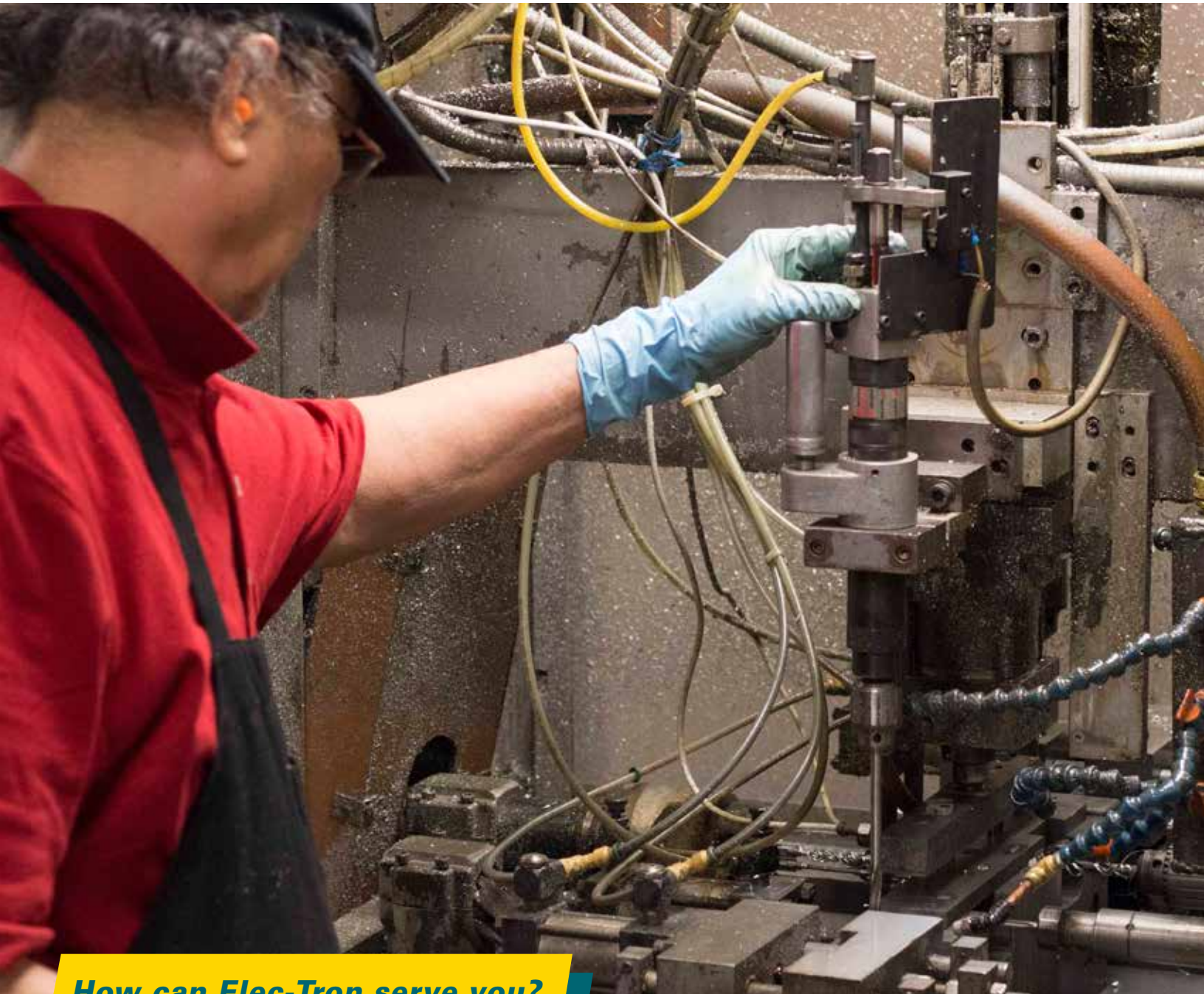


Catalog Number	Line Connections	Left	Load Connections Center	Right
ERB-70		3 Q.C. Tabs	3 Q.C. Tabs	3 Q.C. Tabs
ERB-71		4 Q.C. Tabs	4 Q.C. Tabs	4 Q.C. Tabs
ERB-72		5 Q.C. Tabs	8 Q.C. Tabs	10 Q.C. Tabs
ERB-73	#10 Screw	8 Q.C. Tabs	8 Q.C. Tabs	8 Q.C. Tabs
ERB-74		6 Q.C. Tabs	5 Q.C. Tabs	3 Q.C. Tabs
ERB-74A	#10 Screw	6 Q.C. Tabs	6 Q.C. Tabs	6 Q.C. Tabs
ERB-75	#10 Screw	8 Q.C. Tabs	8 Q.C. Tabs	8 Q.C. Tabs
ERB-76	#10 Screw	4 Q.C. Tabs	8 Q.C. Tabs	6 Q.C. Tabs
ERB-79	#10 Screw	8 Q.C. Tabs	8 Q.C. Tabs	8 Q.C. Tabs

Catalog Number	Line Connections	Left	Load Connections Center	Right
ERB-201	#2/0-14 AWG CU or AL	#2/0-14 AWG CU or AL	#2/0-14 AWG CU or AL	#2/0-14 AWG CU or AL



# Today Elec-Tron serves every major appliance manufacturer



*How can Elec-Tron serve you?*



# ERA Series Terminal Blocks

The ERA Series four-pole power terminal block offers a wide range of terminals and connectors, suited for field wiring with your internal circuits.

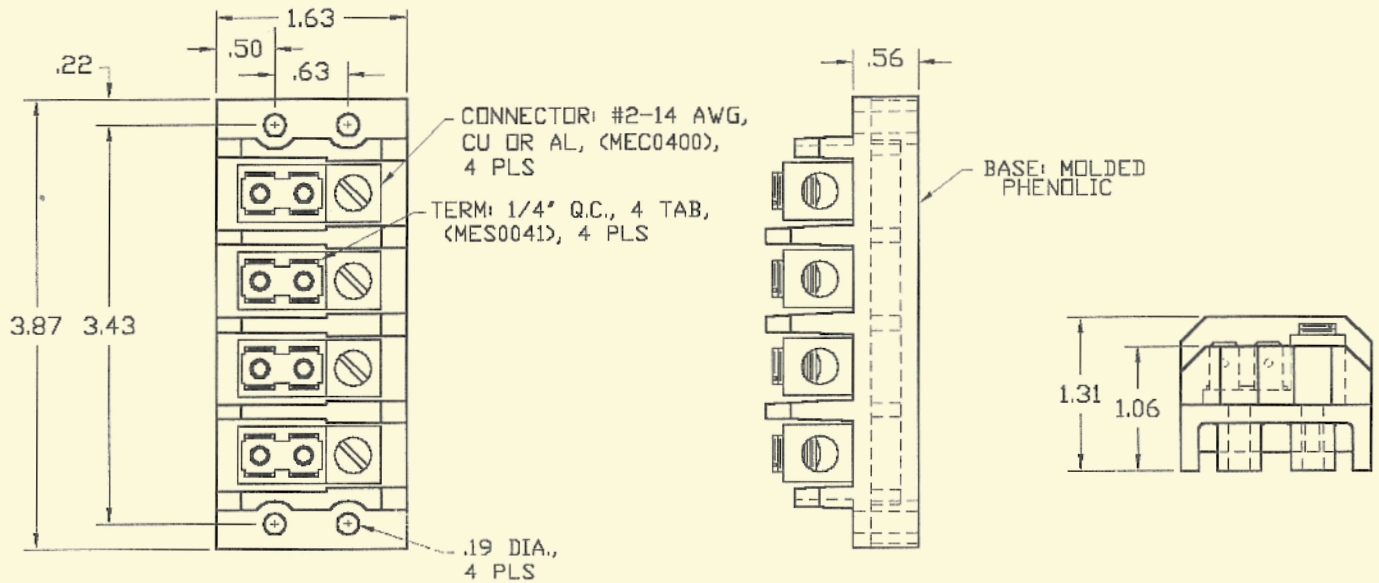
Construction of block has built-in ribs on bottom side of block for added strength.



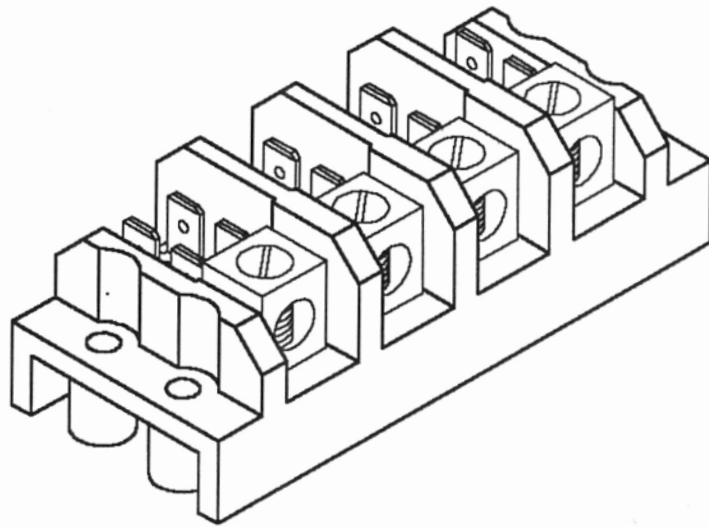
Series	Line In 4-14 AWG	Load Connections (# of Q.C. Tabs)			
		1st Pole	2nd Pole	3rd Pole	4th Pole
ERA	3	4	4	4	4

Notes: ERA-4000 Series is U.A. and C.S.A.  
Certified up to 600 volts and 75 amps.  
Entrance wire range #2-14 AWG.

Series	Line In 2-14 AWG	Load Connections (# of Q.C. Tabs)			
		1st Pole	2nd Pole	3rd Pole	4th Pole
ERA	4	4	4	4	4



ELEC-TRON PART NO. ERA-44444 SHOWN

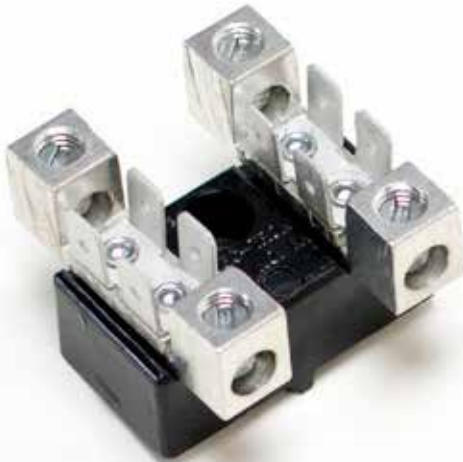
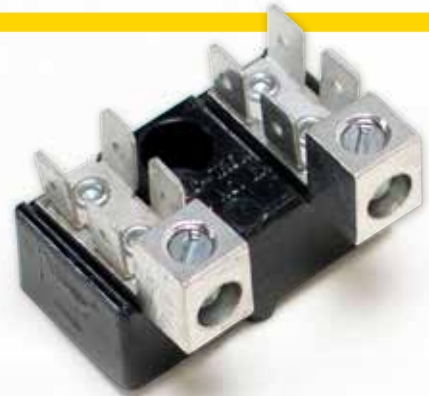


## EK Series Terminal Blocks

The EK Series provides a compact, cost-efficient two-pole general purpose terminal block with over 50 connector options, ranging from multiple quick-connect tabs to pressure screw connectors for #4 AWG copper or aluminum conductors.

With over 50 terminal combinations, the EK Series has one just right for you.

A unique feature of this series is the single fastener mounting. A plastic pin provides anti-rotation.





The EK Series has a wide range of applications. For use as a power entrance block, the EK Series can be supplied with pressure screw connectors for up to #4 AWG copper or aluminum conductors, or with several styles of binding head screw wiring terminals, including vertical or horizontal format.

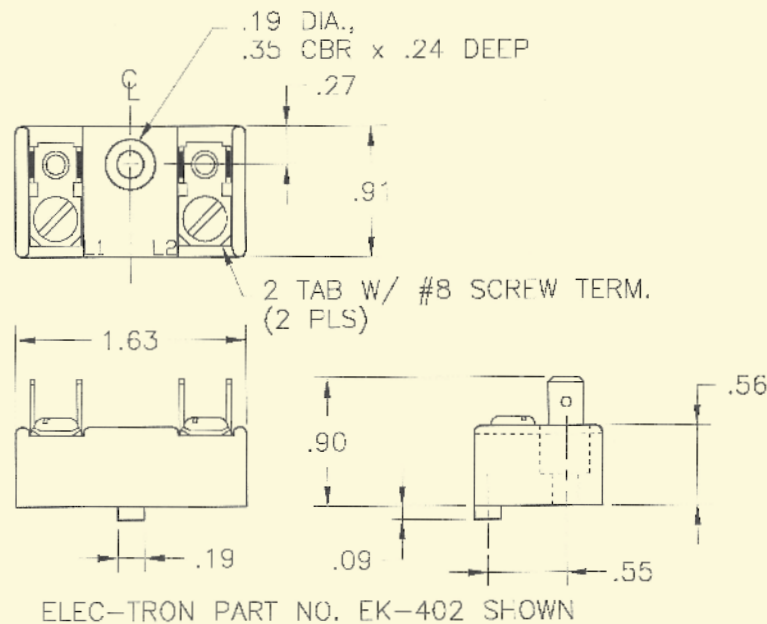
A special feature of the EK Series is the wide range of options available in the secondary or load connections. These options permit product engineers to custom design a terminal block that exactly fits each secondary conductor coming into the terminal block.

These load terminals include up to eight quick-connect tabs, binding head screw terminals and pressure screw connectors, as well as combinations of these connectors and terminals.

All models come equipped with the terminal identification "L 1" and "L 2" molded into the blocks. Additionally, special printing may be supplied as an extra cost option.

The EK Series requires two mounting holes in the mounting panel, but only one fastener. A clearance hole for the .188" diameter anti-rotation pin on the block is required, located .547" from the mounting hole for the fastener, which may be a screw or a rivet. A counterbored .191" diameter fastener hole is provided.

All EK Series blocks are U.L. and C.S.A. listed for 300 volts max. and carry a temperature rating of 150°C. The amperage rating varies with the type of terminal connectors supplied.





Catalog Number	.250 x .032 Quick Connect	
	L 1	L 2
EK-102	2 Tabs	2 Tabs
EK-103	3 Tabs	3 Tabs
EK-104	4 Tabs	4 Tabs
EK-105	5 Tabs	5 Tabs
EK-106	6 Tabs	6 Tabs
EK-108	8 Tabs	8 Tabs
EK-109	3 Tabs	4 Tabs
EK-110	3 Tabs	5 Tabs
EK-111	3 Tabs	6 Tabs
EK-112	3 Tabs	8 Tabs
EK-113	4 Tabs	5 Tabs
EK-114	4 Tabs	6 Tabs
EK-115	4 Tabs	8 Tabs
EK-116	5 Tabs	6 Tabs
EK-117	5 Tabs	8 Tabs
EK-118	6 Tabs	8 Tabs



Catalog Number	Line Connections	Load Connections
EK-202	#8 Screw Terminal	.250 x .032 Quick Connect 2 Tabs
EK-203	#8 Screw Terminal	.250 x .032 Quick Connect 3 Tabs
EK-204	#8 Screw Terminal	.250 x .032 Quick Connect 4 Tabs
EK-205	#8 Screw Terminal	.250 x .032 Quick Connect 5 Tabs
EK-206	#8 Screw Terminal	.250 x .032 Quick Connect 6 Tabs



Catalog Number	Line Connections	Load Connections
EK-302	#8 Screw Terminal	.250 x .032 Quick Connect 2 Tabs
EK-303	#8 Screw Terminal	.250 x .032 Quick Connect 3 Tabs
EK-304	#8 Screw Terminal	.250 x .032 Quick Connect 4 Tabs
EK-305	#8 Screw Terminal	.250 x .032 Quick Connect 5 Tabs
EK-306	#8 Screw Terminal	.250 x .032 Quick Connect 6 Tabs



Catalog Number	Line Connections	Load Connections
EK-402	#8 Screw Terminal	.250 x .032 Quick Connect 2 Tabs
EK-403	#8 Screw Terminal	.250 x .032 Quick Connect 3 Tabs
EK-404	#8 Screw Terminal	.250 x .032 Quick Connect 4 Tabs



Catalog Number	Line Connections	Load Connections
EK-600	#4-14 AWG CU or AL	#10 Screw Terminal
EK-602	#4-14 AWG CU or AL	#10 Screw Terminal Plus .250 x .032 Quick Connect 2 Tabs
EK-603	#4-14 AWG CU or AL	#10 Screw Terminal Plus .250 x .032 Quick Connect 3 Tabs
EK-604	#4-14 AWG CU or AL	#10 Screw Terminal Plus .250 x .032 Quick Connect 4 Tabs



Catalog Number	Line Connections	Load Connections
EK-502	#4-14 AWG CU or AL	.250 x .032 Quick Connect 2 Tabs
EK-503	#4-14 AWG CU or AL	.250 x .032 Quick Connect 3 Tabs
EK-504	#4-14 AWG CU or AL	.250 x .032 Quick Connect 4 Tabs
EK-505	#4-14 AWG CU or AL	.250 x .032 Quick Connect 5 Tabs
EK-506	#4-14 AWG CU or AL	.250 x .032 Quick Connect 6 Tabs



Catalog Number	Line Connections	Load Connections
EK-700	#4-14 AWG CU or AL	#4-14 AWG CU or AL Connector
EK-702	#4-14 AWG CU or AL	#4-14 AWG CU or AL Connector Plus .250 x .032 Quick Connect, 2 Tabs
EK-703	#4-14 AWG CU or AL	#4-14 AWG CU or AL Connector Plus .250 x .032 Quick Connect, 3 Tabs
EK-704	#4-14 AWG CU or AL	#4-14 AWG CU or AL Connector Plus .250 x .032 Quick Connect, 4 Tabs



## ED Series Power Terminal Blocks

The ED Series is a compact, economical and heavy duty solution for connecting incoming power to internal factory wiring.

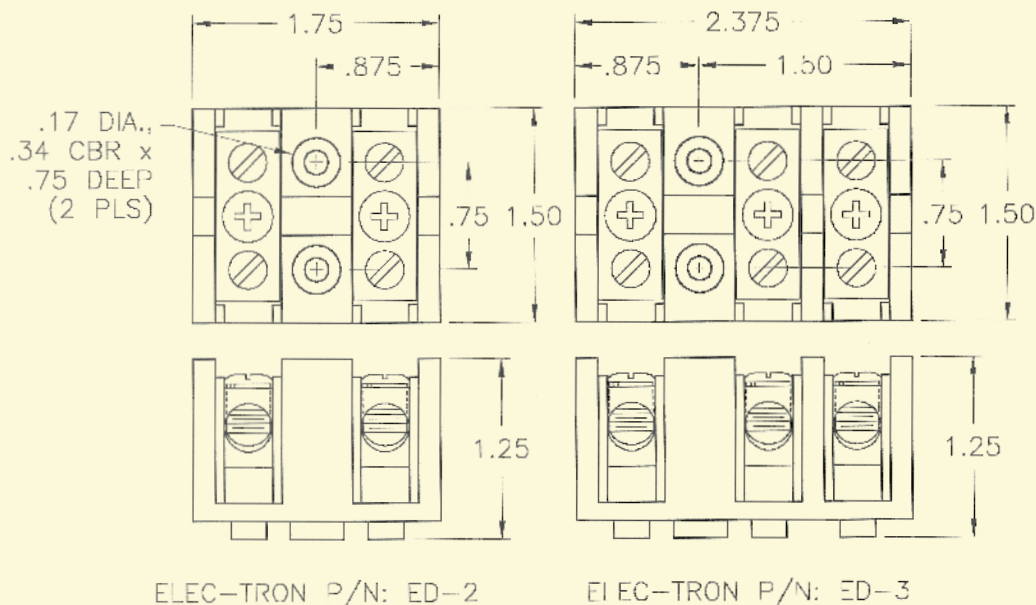
A superior splice block, this 2- or 3-pole power junction series is ideal for electric furnaces, duct heaters, heat pumps, commercial cooking equipment, electric water heaters and other applications.

Rating: 600 volts, #2 to #14 AWG copper or aluminum conductors, 150°C continuous duty.

Base: special electrical grade molded phenolic, U.L. rated 94V-O, 150°C.

Extra heavy sections and recessed mounting fasteners provide safety and reliability.

Connectors are of a single piece construction, eliminating any mechanical-electrical joints and potential "hot spots".



## EJ Series Power Block

The EJ Series is a "threaded stud" type power block, ideally suited for a power entrance block or internal junction block for electric ranges, electric clothes dryers and similar applications.

This substantially improved terminal block is available at considerable cost savings over conventional models.

The EJ Series two and three post stud and nut type power entrance blocks are available with an optional built-in grounding strap.

Three important features have been designed into the EJ Series of Terminal Blocks.

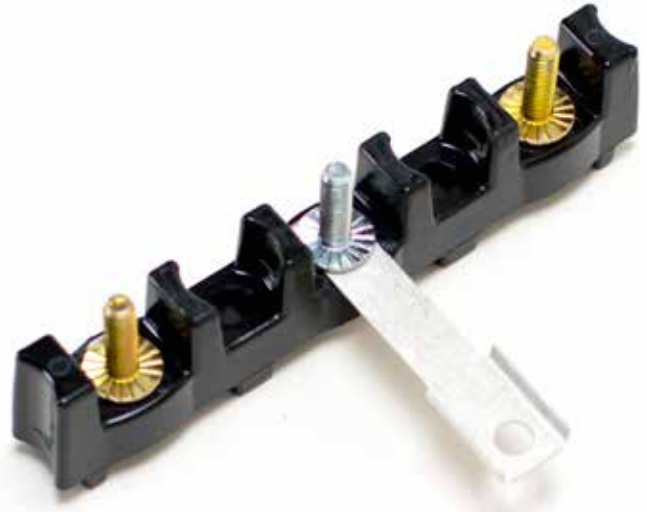
The blocks are substantially stronger than conventional stud and nut blocks. Extensive investment in modeling and stress technology have resulted in a block that offers a 39% increase in break and crack resistance.

The optional integral ground strap results in reduced assembly time and lower unit cost.

The blocks cost 19% to 21% less than conventional stud and nut blocks.

EJ Series blocks offer a convenient 2- or 3-pole junction point for connection of factory wiring to field installed cordsets.

Factory connection to these blocks is via factory applied ring terminals. These terminals are then secured with a nut.

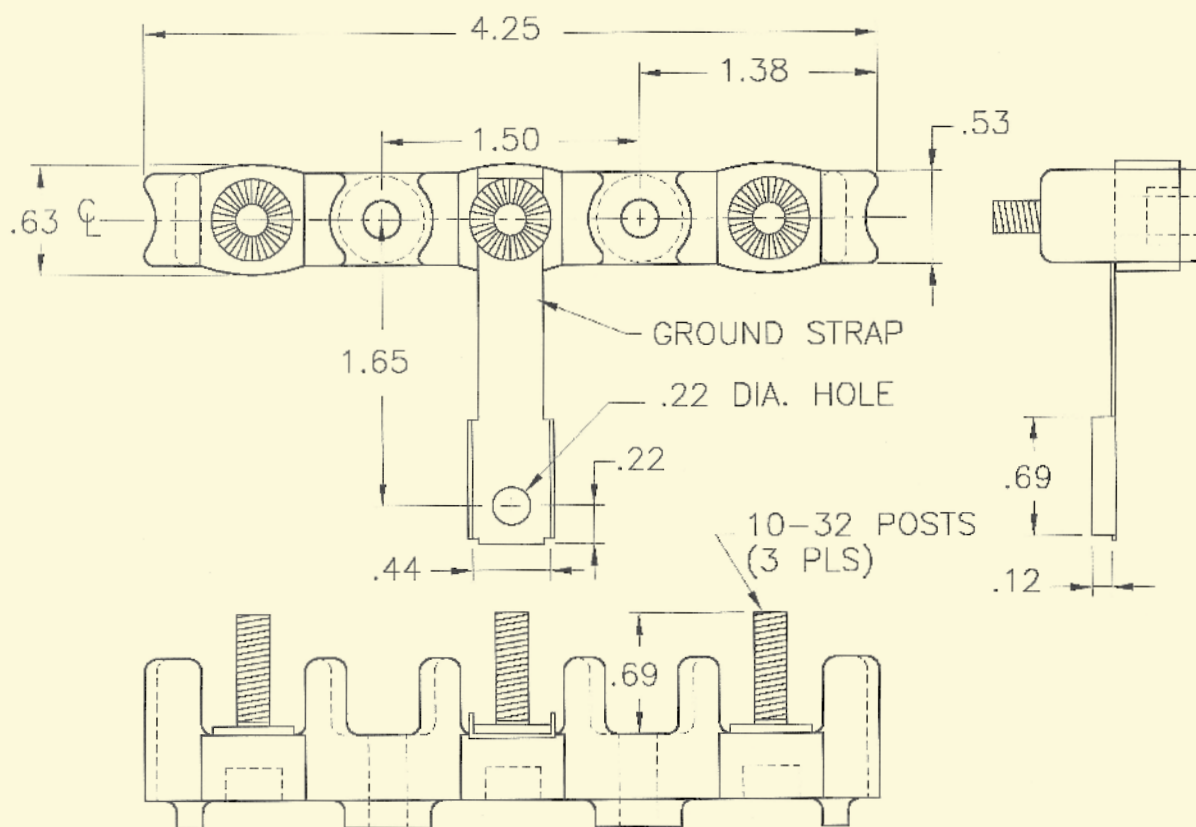


Field installation is also via ring terminals. Equipment installers secure a separately purchased cordset to the screw posts with factory supplied nuts.

EJ Series terminal blocks are U.L. recognized under File Number E61937 and C.S.A. certified under LR47902 for applications up to 300 Volts, 60 amps, and 150°C.

The EJ Series is completely interchangeable with other three posted stud and nut terminal blocks.





ELEC-TRON PART NO. EJ-3G(A) SHOWN



# Terminal Fuse Blocks



The TFB Series is available  
in two basic formats:  
with or without fuseholders.

## TFB Series Terminal Fuse Blocks

Elec-Tron's TFB Series terminal block is unique in combining quick-connect terminals with standard 1/4" fuse holders on a single block.

The molded phenolic block includes optional internal junctions of the fuse with multiple quick-connect tabs, for substantial cost and spacing savings in your product.

If you require 1/4" x 1-1/4" fuses and other internal wiring junctions, one of the TFB models will be just right for you.

This model features single fastener mounting, with anti-rotation provided by a .19" diameter plastic pin.



## Fuse Block Models

The fuseholder models bring a new concept to the industry, combining a fuse block with a terminal block in one component.

## Terminal Block Models

The TFB series is also available as a straight terminal block, including a wide range of quick-connect terminal combinations.

In the combination fuse block-terminal block configuration, the TFB Series is ideal for microwave ovens and other small appliances with internal fusing. As a straight terminal block, the TFB series offers an ideal internal junction block for all appliance applications.

Most models are available with a choice of .031" X .250" or .020" X .188" male tabs, in plain brass or tin plated brass. The plated spring bronze fuse clips are sized for 1/4" by 1-1/4" fuses.

Fuse clips with a single quick-connect tab are of one piece construction, and all others are riveted directly to the combination quick-connects, not through the phenolic block.

Electrical rating: 120 volts, 20 amps

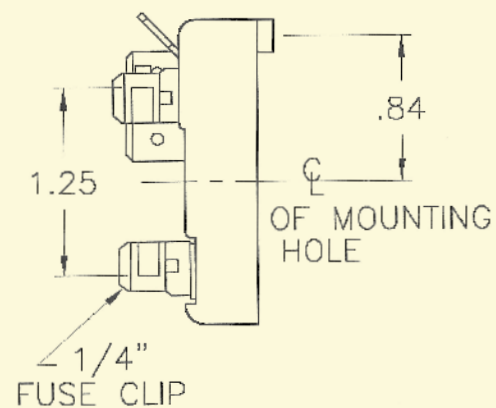
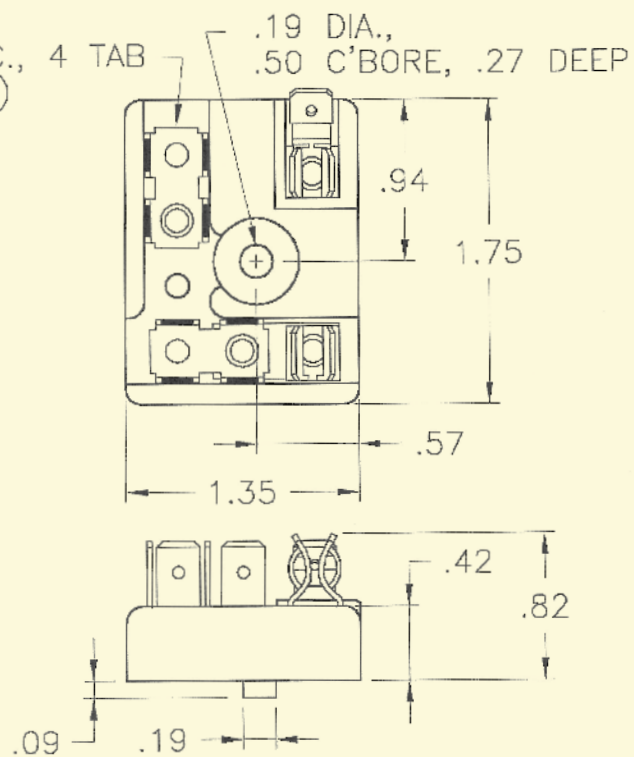
Special terminal identification markings are available as an extra cost option.



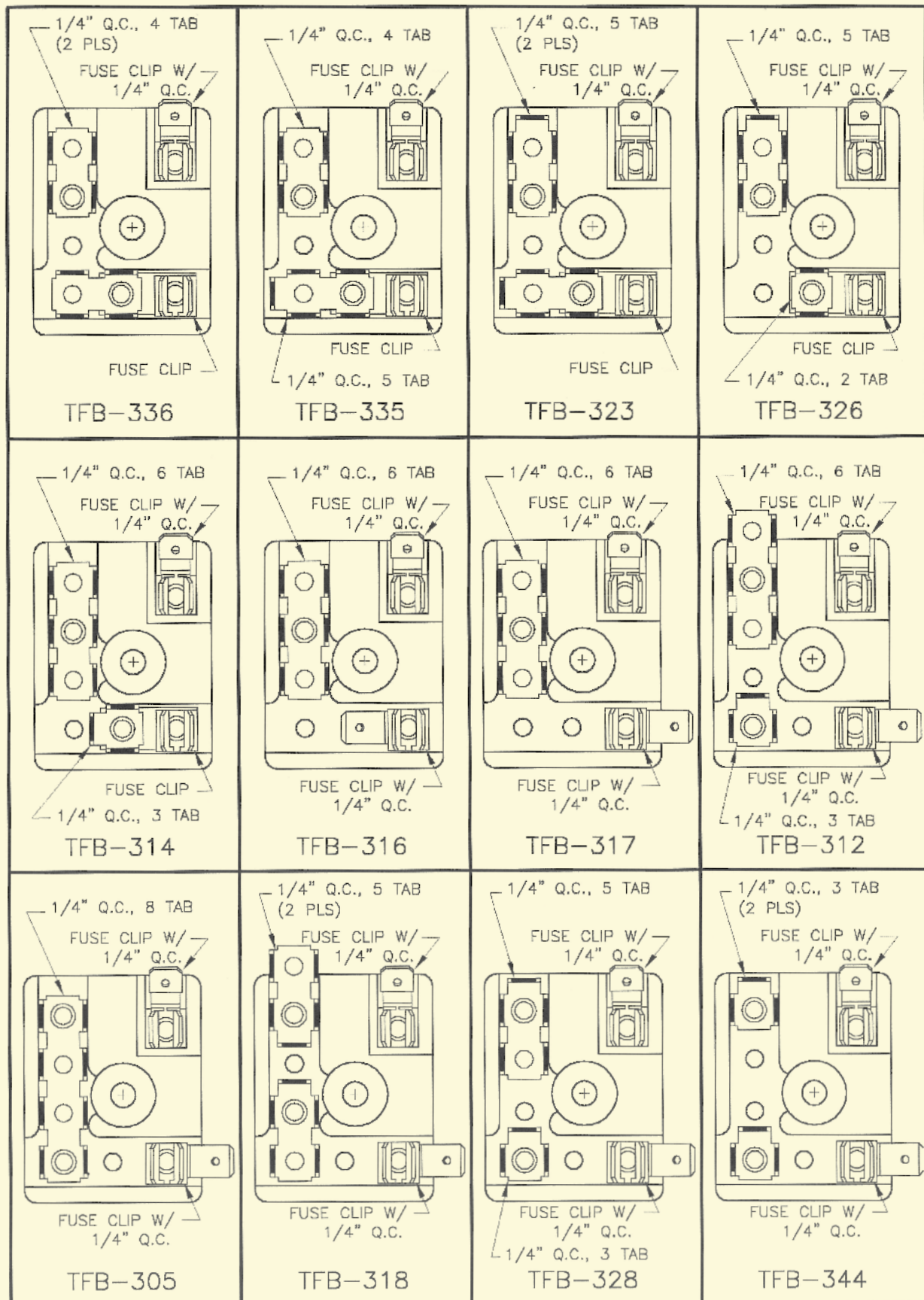


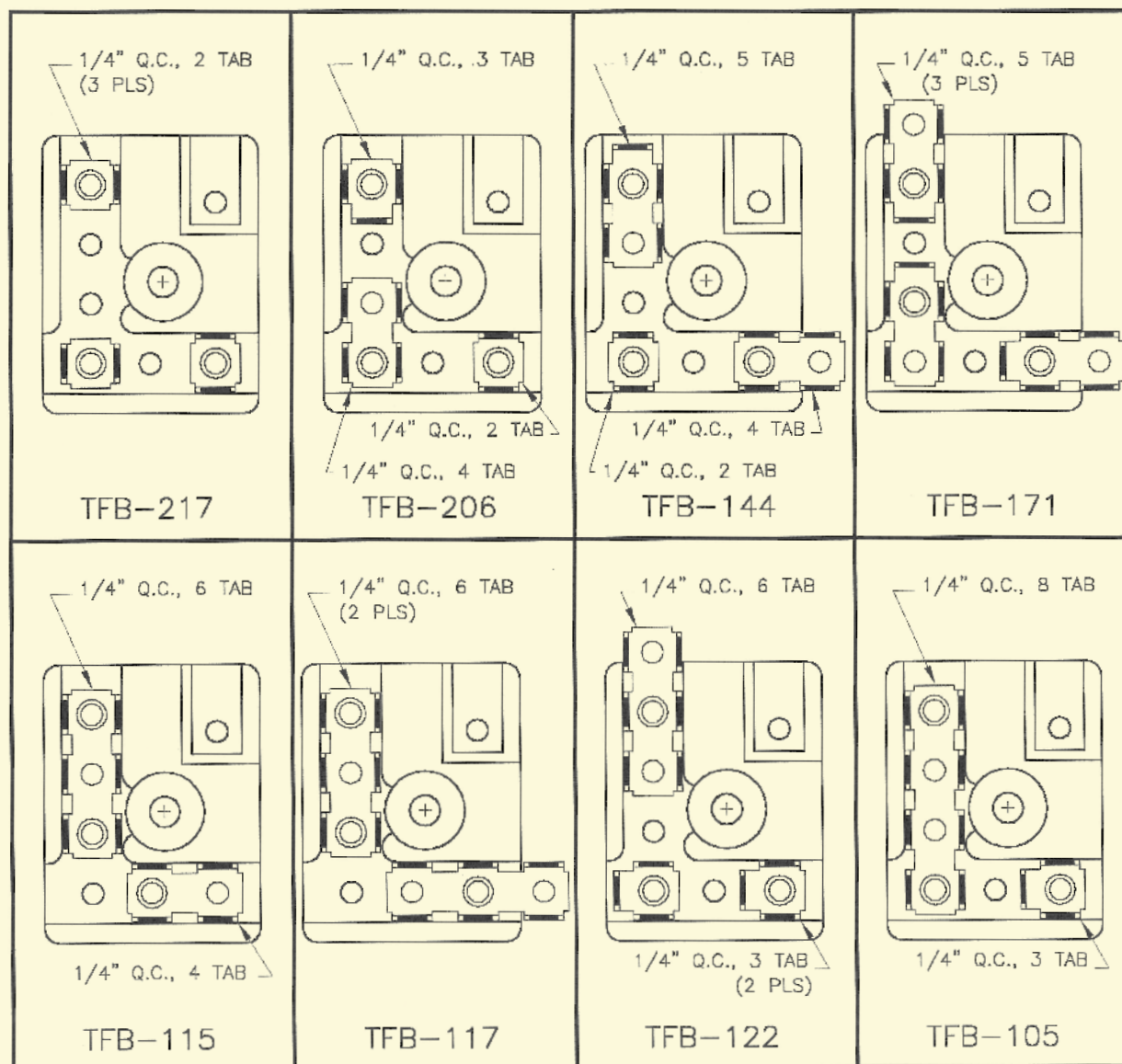


1/4" Q.C., 4 TAB  
(2 PLS)



ELEC-TRON PART NO. TFB-336 SHOWN







# Insulated Terminal Blocks



*How can Elec-Tron serve you?*

## EE8 Series Insulated Terminal Blocks

The EE8 Series provides a cost-efficient, fully insulated, compact terminal block for applications requiring "no exposed metal" connections.

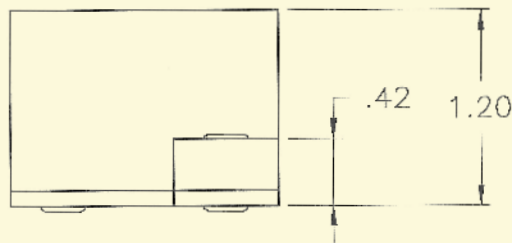
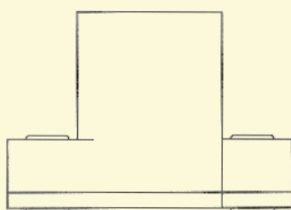
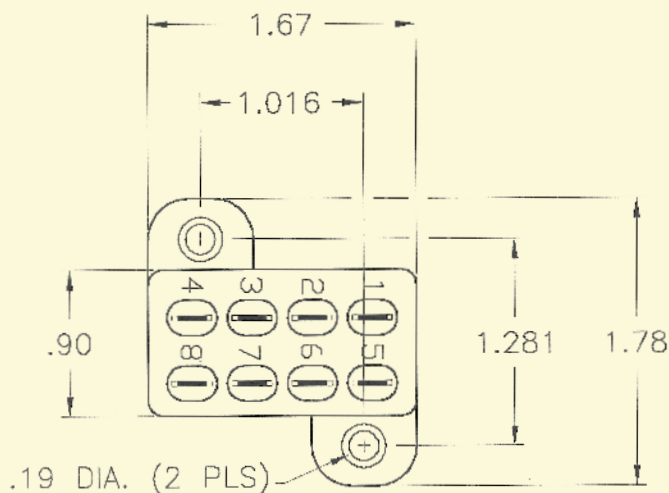
Up to 4 poles can be provided with internal junction in a nearly endless number of arrangements of 1/4" quick-connect tabs, all in a compact area. The molded electrical grade phenolic block can hold up to 8 terminals, from 2 to 8 common.

Terminals are .031 X .250 male quick-connect tabs, "U" or "Spade" style.

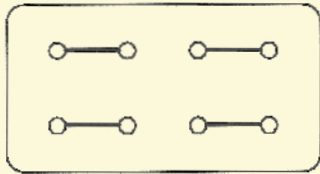
The EE8 Series is U.L. and C.S.A. rated for 25 amps, 250 volts, 150°C.



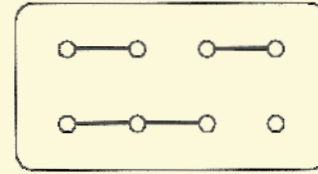
Terminal identification markings and/or circuit legends may be imprinted on the top surface of the block. A part number and other coding may be imprinted on the side of the block to your specifications.



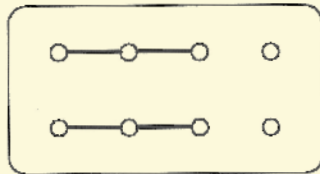
## TYPICAL CIRCUITS WITH "SPADE" STYLE TERMINALS



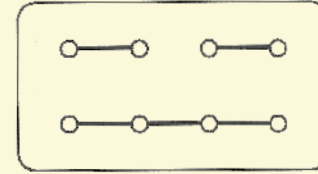
EE8-101



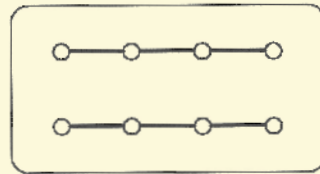
EE8-102



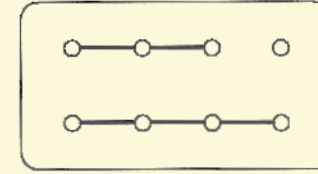
EE8-103



EE8-104



EE8-105



EE8-106

## EE-EM SERIES TERMINALS

### "SPADE" STYLE

2, 3, 4, 5 and 6 Tabs



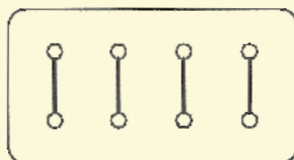
### "U" STYLE

2, 4, 6, 8, 10 and 12 Tabs

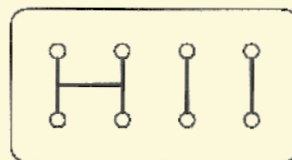




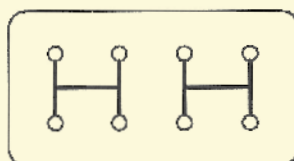
## TYPICAL CIRCUITS WITH "U" STYLE TERMINALS



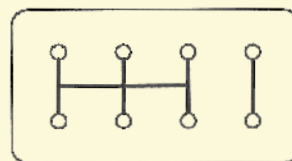
EE8-201



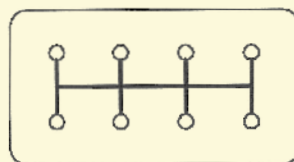
EE8-202



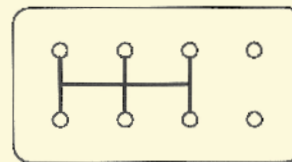
EE8-203



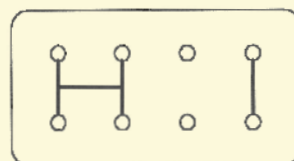
EE8-204



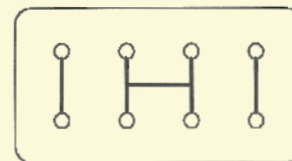
EE8-205



EE8-206



EE8-207



EE8-208

## EM12 Series Insulated Terminal Blocks

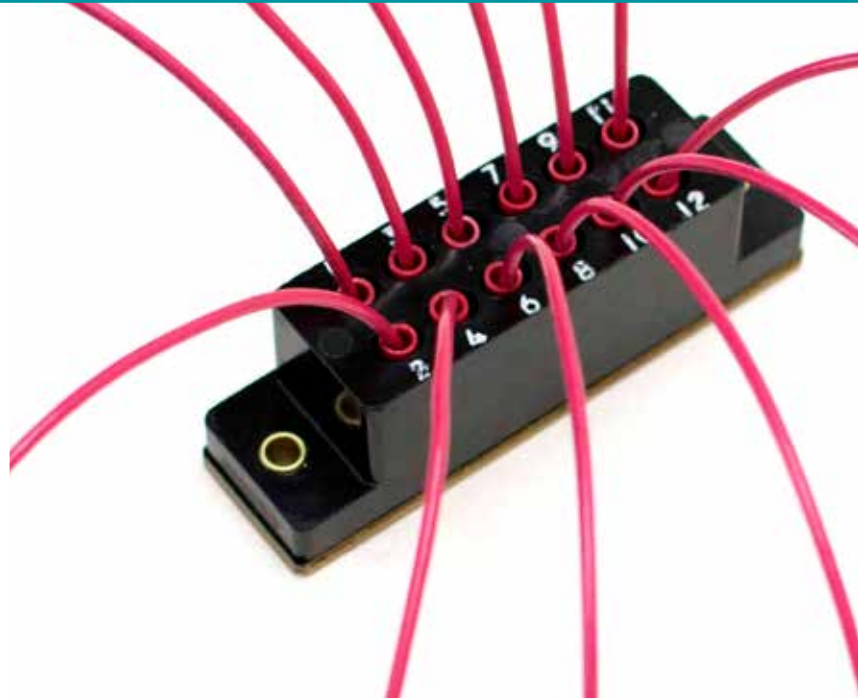
The EM12 Series offers a fully insulated terminal block for appliance applications requiring "no exposed metal" connections.

Up to 6 poles can be provided with internal junction in a nearly endless number of arrangements of 1/4" quick-connect tabs, all in a compact area.

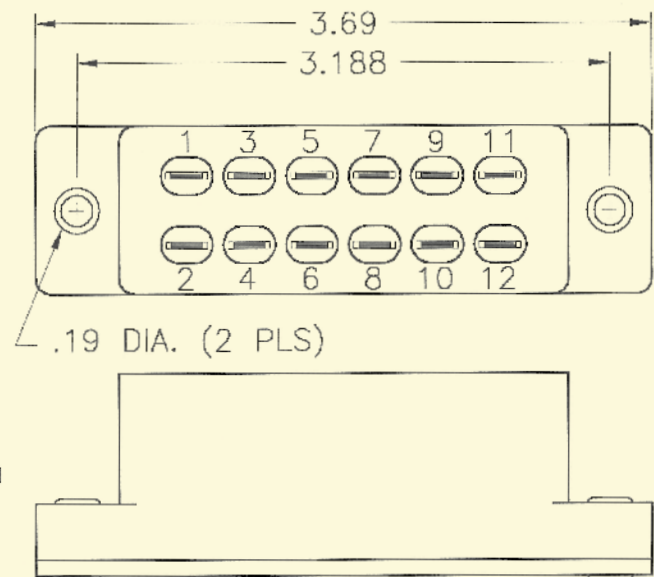
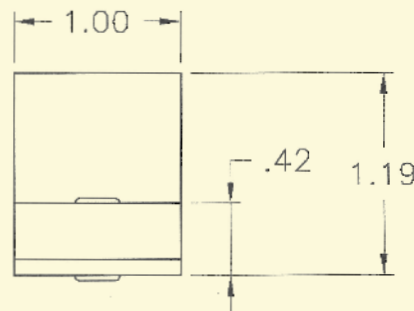
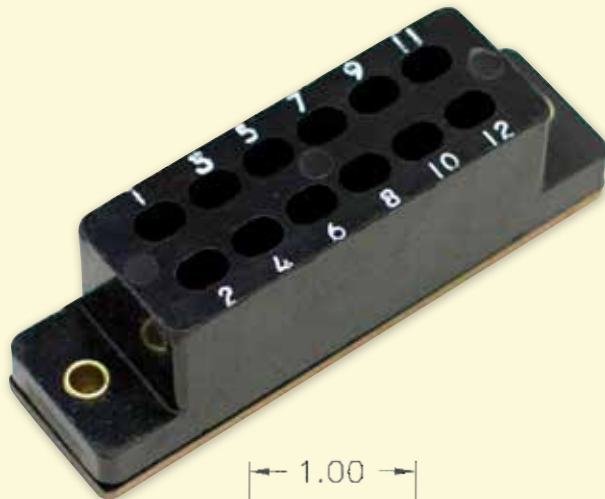
The molded electrical grade phenolic block can hold up to 12 terminals, from 2 to 12 common.

Terminals are .031 X .250 male quick-connect tabs, "U" or "Spade" style.

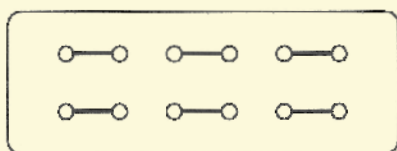
The EM12 Series is U.L. and C.S.A. rated for 25 amps, 250 volts, 150°C.



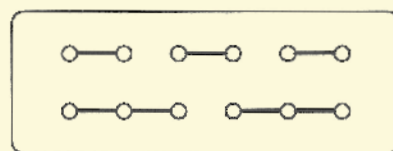
Terminal identification markings and/or circuit legends may be imprinted on the top surface of the block. A part number and other coding may be imprinted on the side of the block to your specifications.



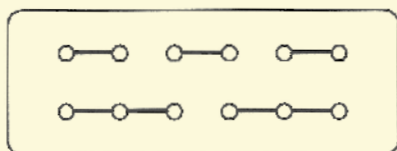
## TYPICAL CIRCUITS WITH "SPADE" STYLE TERMINALS



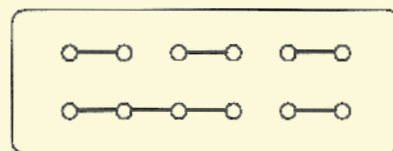
EM12-101



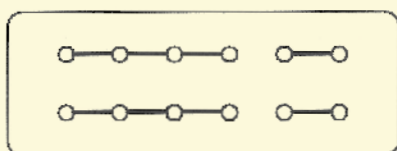
EM12-102



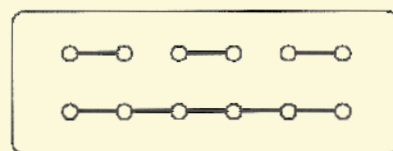
EM12-103



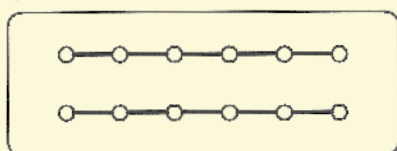
EM12-104



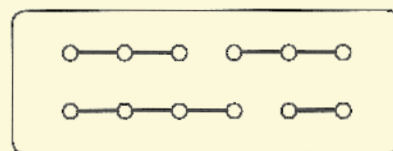
EM12-105



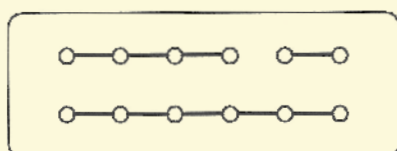
EM12-106



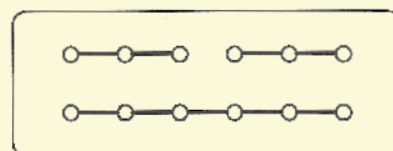
EM12-107



EM12-108

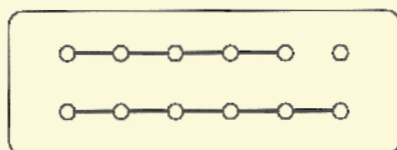


EM12-109

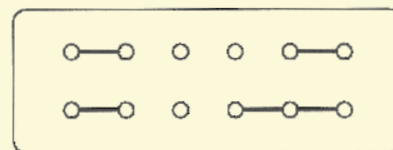


EM12-110

NOTE: TERMINAL POSITIONS MAY BE LEFT OPEN.



EM12-111



EM12-112

## EE-EM SERIES TERMINALS

**"SPADE" STYLE**

2, 3, 4, 5 and 6 Tabs

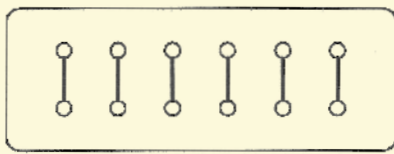
**"U" STYLE**

2, 4, 6, 8, 10 and 12 Tabs

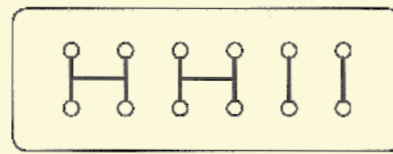




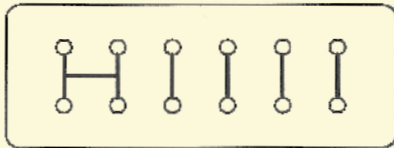
### TYPICAL CIRCUITS WITH "U" STYLE TERMINALS



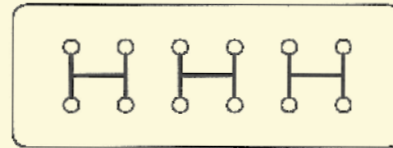
EM12-201



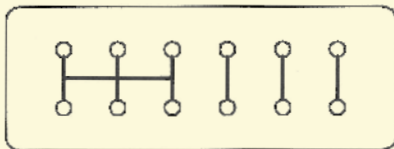
EM12-202



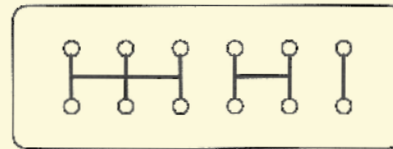
EM12-203



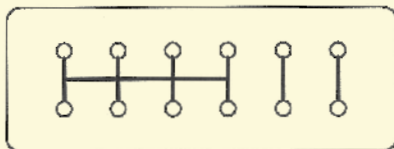
EM12-204



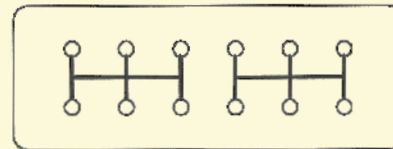
EM12-205



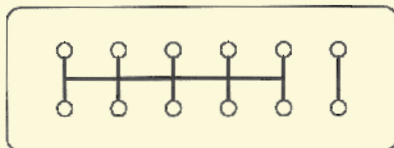
EM12-206



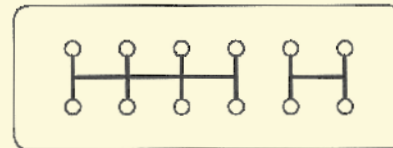
EM12-207



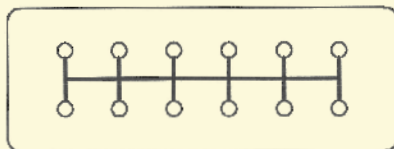
EM12-208



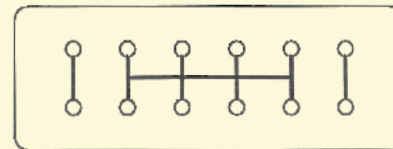
EM12-209



EM12-210

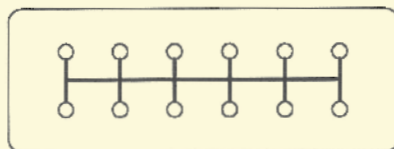


EM12-211

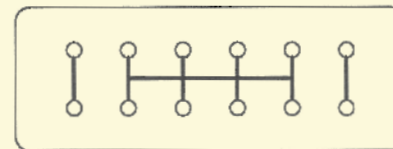


EM12-212

NOTE: TERMINAL POSITIONS MAY BE LEFT OPEN.



EM12-213



EM12-214

## EE16 Series Insulated Terminal Blocks

The EE16 Series delivers a cost-efficient, fully insulated terminal block for appliance applications requiring "no exposed metal" connections.

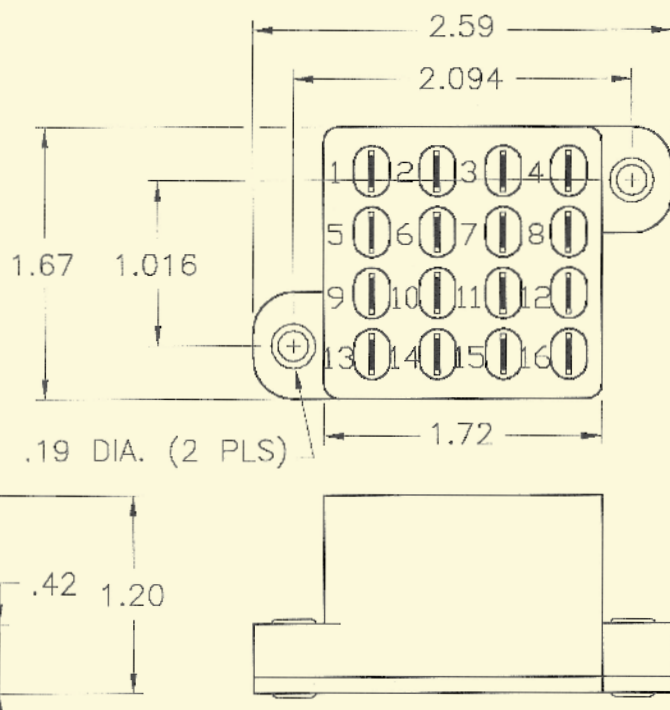
Up to 8 poles can be provided with internal junction in a nearly endless number of arrangements of 1/4" quick-connect tabs, all in a compact area.

The molded electrical grade phenolic block can hold up to 16 terminals, from 2 to 8 common.

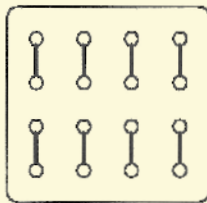
Terminals are .031 X .250 male quick-connect tabs, "U" or "Spade" style.

The EE16 Series is U.L. and C.S.A. rated for 25 amps, 250 volts, 150°C.

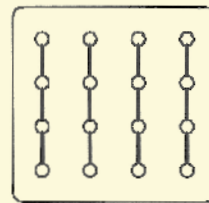
Terminal identification markings and/or circuit legends may be imprinted on the top surface of the block. A part number and other coding may be imprinted on the side of the block to your specifications.



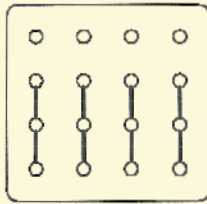
### TYPICAL CIRCUITS WITH "SPADE" STYLE TERMINALS



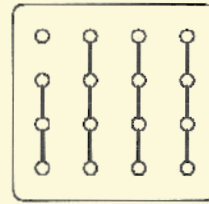
EE16-101



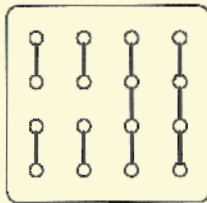
EE16-102



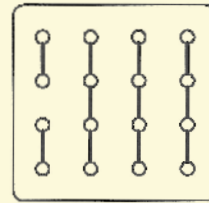
EE16-103



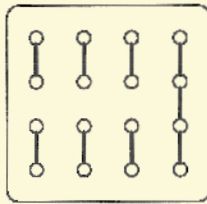
EE16-104



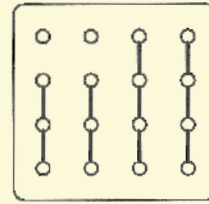
EE16-105



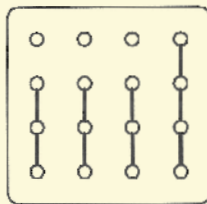
EE16-106



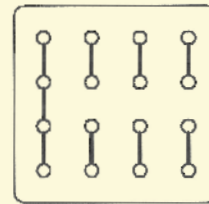
EE16-107



EE16-108



EE16-109



EE16-110

## EE-EM SERIES TERMINALS

### "SPADE" STYLE

2, 3, 4, 5 and 6 Tabs



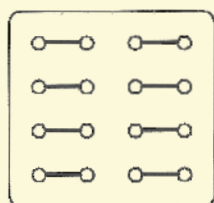
### "U" STYLE

2, 4, 6, 8, 10 and 12 Tabs

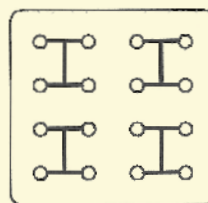




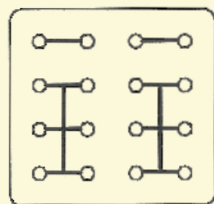
## TYPICAL CIRCUITS WITH "U" STYLE TERMINALS



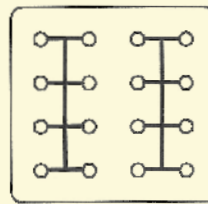
EE16-201



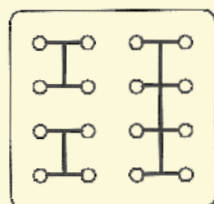
EE16-202



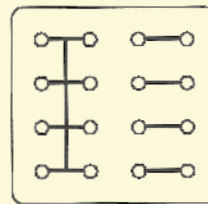
EE16-203



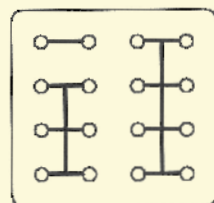
EE16-204



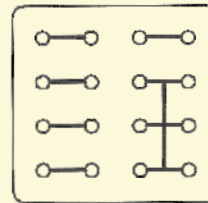
EE16-205



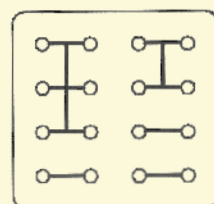
EE16-206



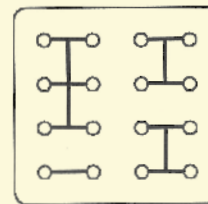
EE16-207



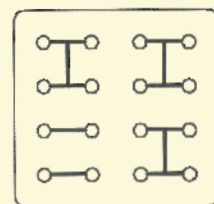
EE16-208



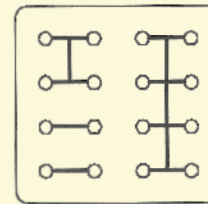
EE16-209



EE16-210



EE16-211



EE16-212

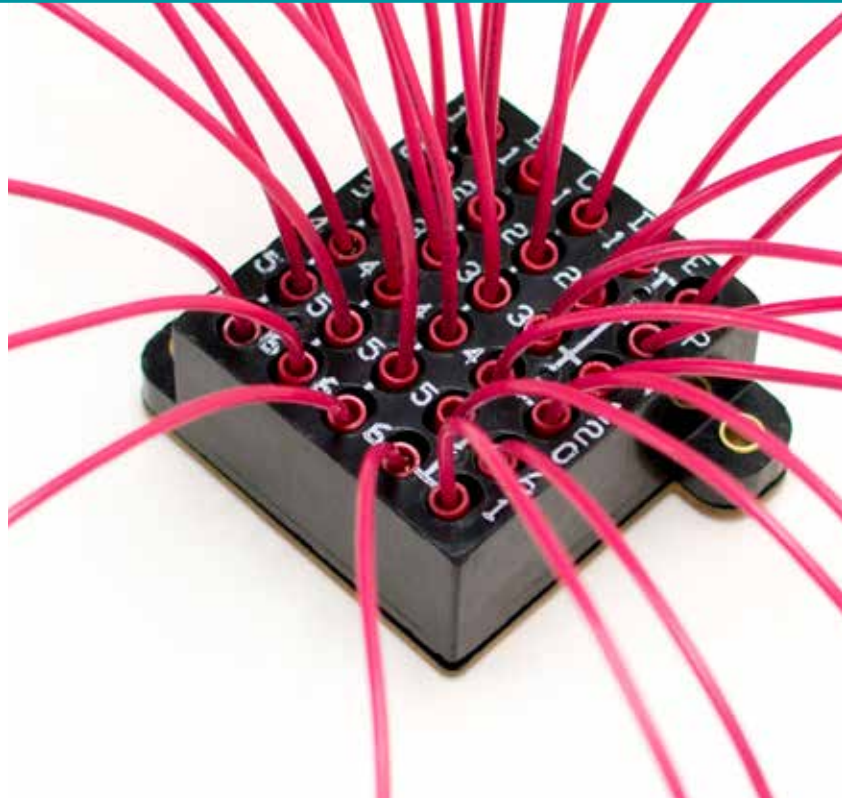
## EE30 Series Insulated Terminal Blocks

The EE30 Series delivers a cost-efficient, fully insulated terminal block for appliance applications requiring "no exposed metal" connections.

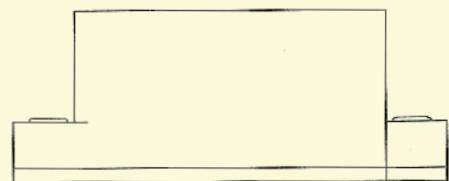
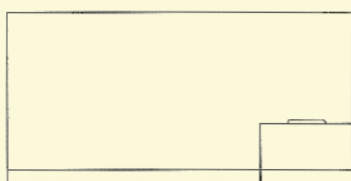
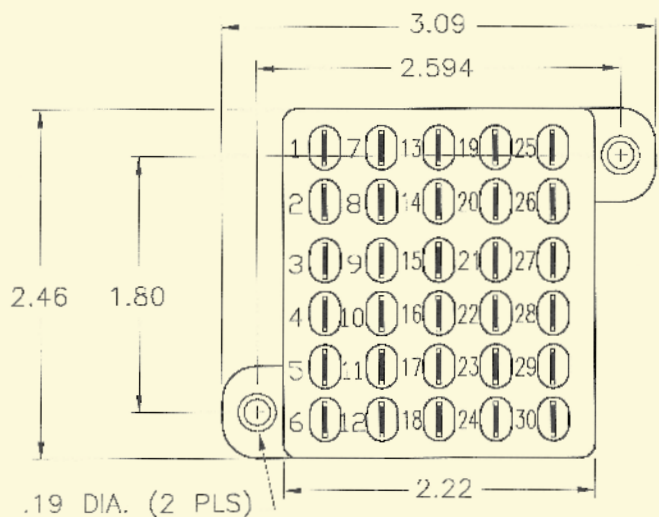
Up to 15 poles can be provided with internal junction in a nearly endless number of arrangements of 1/4" quick-connect tabs, all in a compact area.

The molded electrical grade phenolic block can hold up to 30 terminals, from 2 to 12 common. Terminals are .031 X .250 male quick-connect tabs, "U" or "Spade" style.

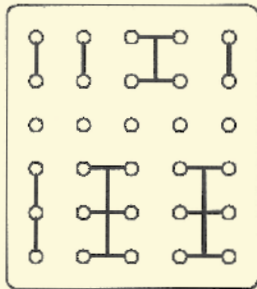
The EE30 Series is U.L. and C.S.A. rated for 25 amps, 250 volts, 150°C.



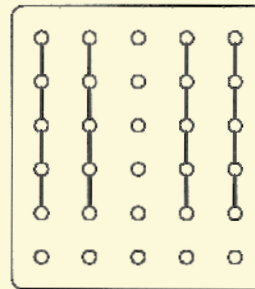
Markings may be imprinted on the top surface or side of the block.



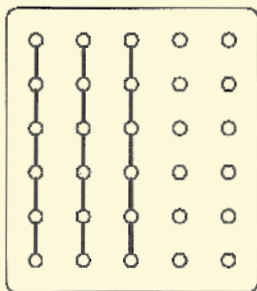
## TYPICAL CIRCUITS WITH "U" AND "SPADE" STYLE TERMINALS



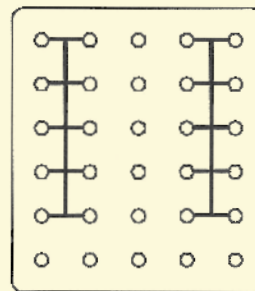
EE30-1



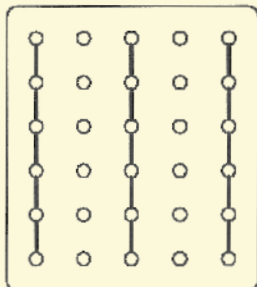
EE30-4



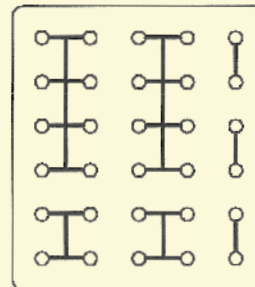
EE30-2



EE30-5



EE30-3



EE30-6

## EE-EM SERIES TERMINALS

**"SPADE" STYLE**

2, 3, 4, 5 and 6 Tabs

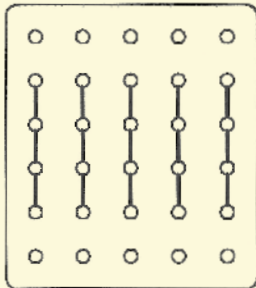
**"U" STYLE**

2, 4, 6, 8, 10 and 12 Tabs

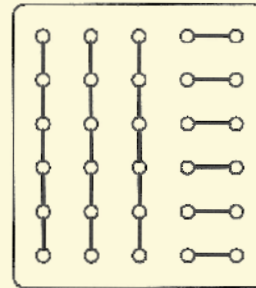




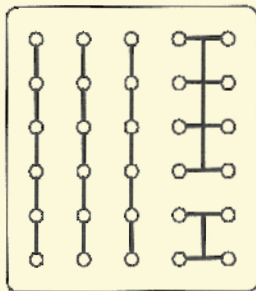
## TYPICAL CIRCUITS WITH "U" AND "SPADE" STYLE TERMINALS



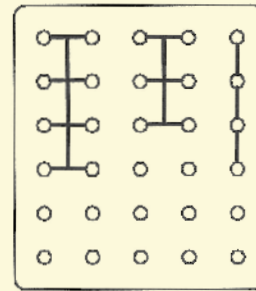
EE30-7



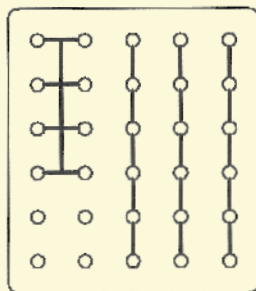
EE30-10



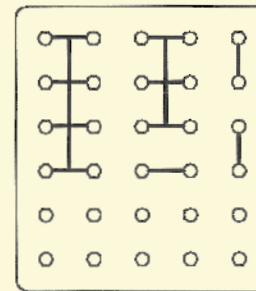
EE30-8



EE30-11



EE30-9



EE30-12

## EF Series Snap In Insulated Terminal Blocks

The EF Series is a compact insulated "Snap In" 2- to 5-pole terminal block designed for the connection of through-cabinet wiring.

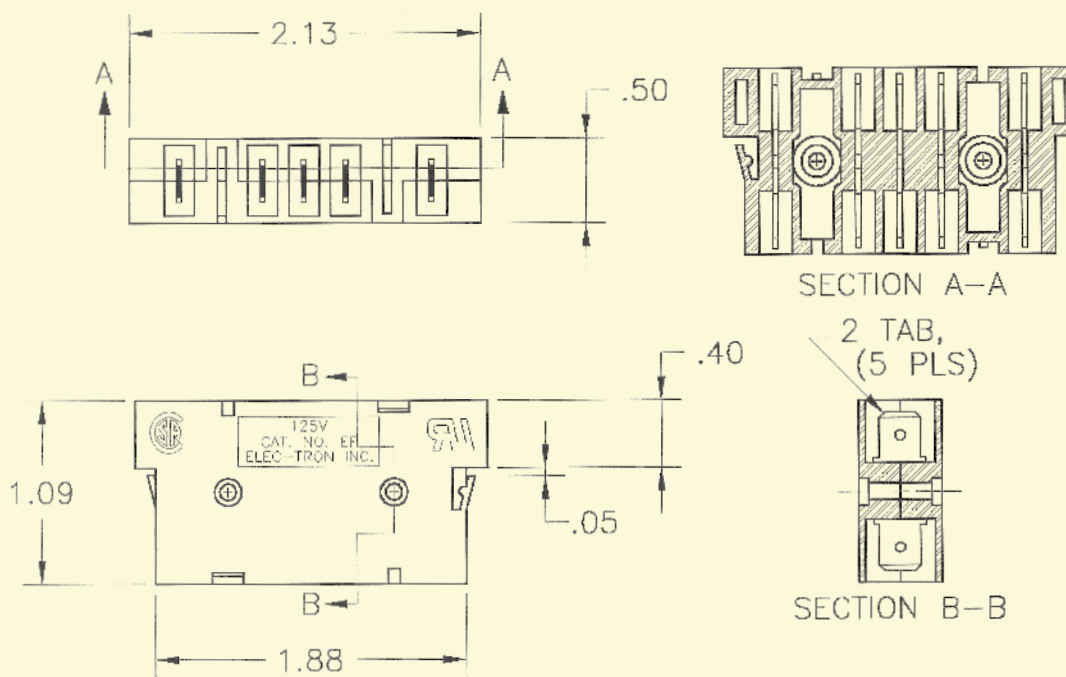
This series is ideally suited for applications such as blower motor speed connections and other through-cabinet connections.

EF Series blocks are rated for 15-30 amps dependent upon terminal selection, at 125 volts.



The base is molded of U.L. rated 94V-0 polypropylene. The base securely snaps into cabinets of up to .042 thick.

Polarity may be maintained with the use of different size quick-connect tabs.



ELEC-TRON PART NO. EF-11111 SHOWN

# Control Circuit Blocks





## ET Series Low Voltage Terminal Blocks

The ET Series is a multi-pole, multi-purpose line of terminal blocks with three sizes of standard molded phenolic bases that may be combined with 16 different terminal styles, permitting custom designed assemblies at stock prices.

An almost endless variety of combinations is possible, including quick-connect terminals and combinations of binding screw and quick-connect terminals.

This series has wide application in circuits of less than 150 volts, wherever a number of sets of wires must be junctioned, either for internal wiring or for joining field connections to factory installed wires. The ET Series is ideal as a thermometer connection strip in heating and air conditioning equipment, or as a general purpose internal junction block in other appliances.

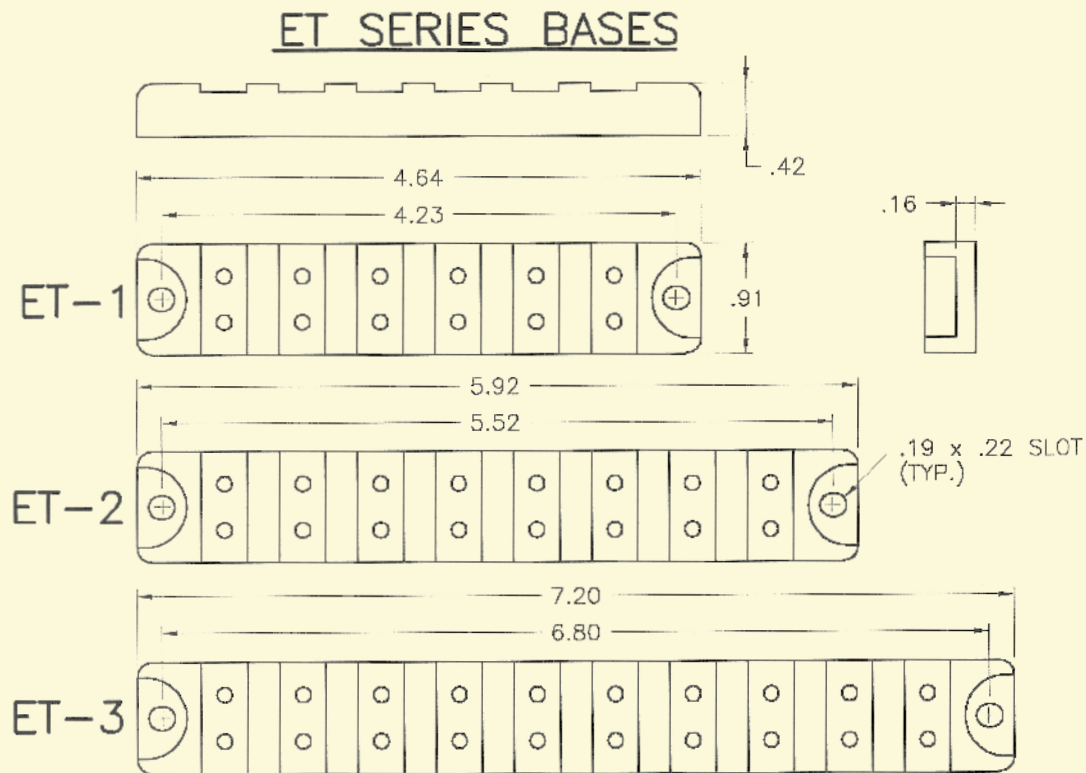
The ET Series consists of three sizes of standard bases and 16 different terminals. Each pole is designed to accommodate up to 8 quick-connect tabs, or 6 quick-connect tabs and a #8 screw terminal. For most models, the cost is considerably less than a conventional barrier strip or comparable phenolic sheet board.



For Design Engineers, the standard format in the base leaves designation of the desired terminals at each pole as the only engineering consideration. Further, being a molded base designed specifically for this purpose, the ET Series blocks are able to provide superior electrical spacings without requiring additional room in the junction box.

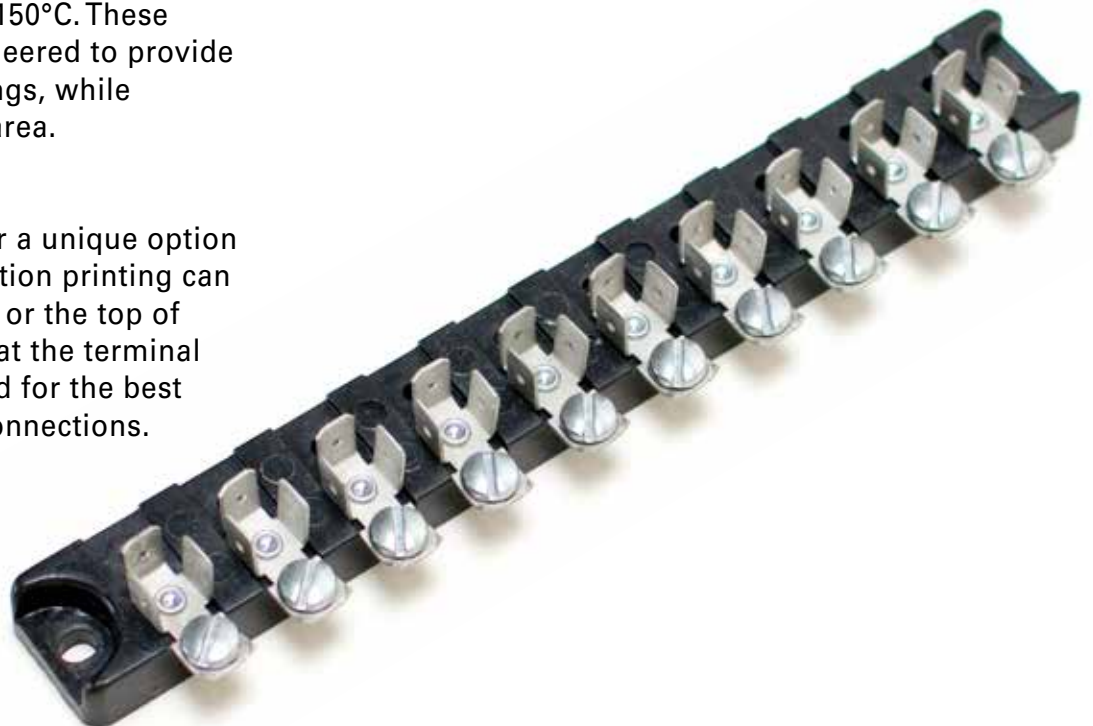
For Purchasing, the ET Series offers the most cost effective product for this purpose. Generally, an equivalent ET Series assembly will cost 10% to 20% less than an assembly based on fabricated phenolic sheet construction.

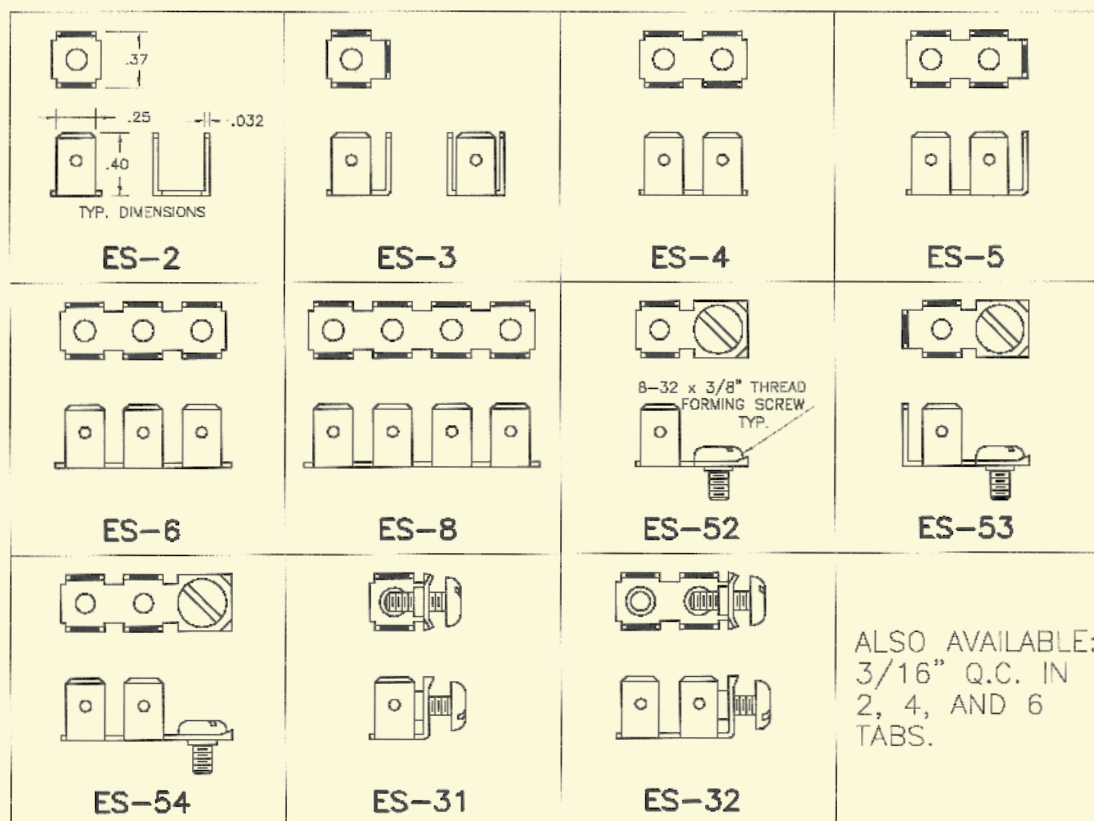
The ET Series is U.L. listed at 150 volts, 150°C.



The bases are molded of a special high temperature electrical grade phenolic compound, U.L. rated at 150°C. These blocks are carefully engineered to provide excellent electrical spacings, while requiring a minimum of area.

The ET Series blocks offer a unique option in that terminal identification printing can be displayed on the front or the top of the blocks. This means that the terminal legends can be positioned for the best visibility in making the connections.





## Custom design your terminal blocks with Elec-Tron ET Series components

Select the size ET base required.

Select the desired terminal combination for each terminal position from the 16 different styles shown above.

Specify any terminal identification printing desired.

### Binding screw terminals

The binding screw terminals are furnished with #8-32 X 3/8" plated steel thread forming screws which will not vibrate loose in handling, or with plain brass screws upon request.





# Feed-Thru Terminal Boards



## EG Series Terminal Strips

The EG Series feed-thru terminal strips are especially designed to serve as control circuit junctions, and offer you the advantage of completely isolating factory wiring from field wiring connections. Additionally, feed-thru terminal strips eliminate the need to feed many factory wires through holes in the junction box.

These terminal strips are available for any size, shape or number of terminals you require, providing a single piece unit with a screw plate on one side and a quick-connect or solder terminal on the other side.

Because the terminal is mounted through a matching shape hole, it cannot rotate or loosen when wires are installed. The screw plate features an upturned tab to prevent the wire from becoming disconnected if the screw is loosened.

The quick-connect tabs are designed to NEMA DC-2 standards and are available in .032 X .250 or .020 X .188 sizes.

Terminals are generally mounted through NEMA grade XPC laminated sheet in 1/16" or 5/64" thickness.

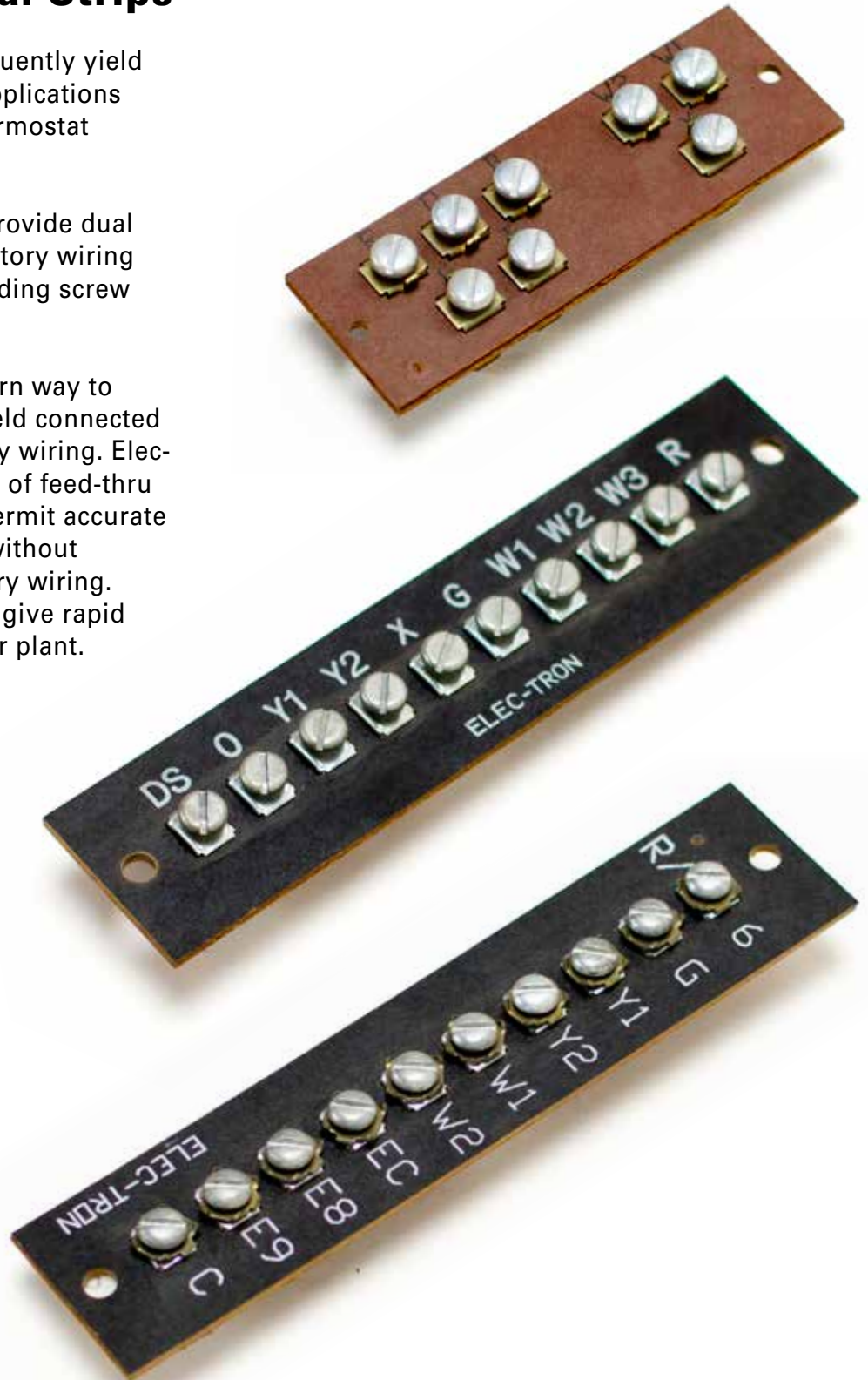


## ES-36 Series Feed-Thru Terminal Strips

Feed-thru terminal strips frequently yield outstanding advantages in applications involving field connected thermostat wiring.

Elec-Tron's ES-36 terminals provide dual quick-connect tabs for the factory wiring on the backside, and 6-32 binding screw terminals on the front.

The ES-36 Series is the modern way to join thermostats and other field connected control circuits to your factory wiring. Elec-Tron's limitless arrangements of feed-thru low voltage terminal strips permit accurate screw terminal connections without exposing your complex factory wiring. Dual quick-connect terminals give rapid and positive assembly in your plant.





## ES-43 Series Feed-Thru Terminal Strips

These low-cost feed-thru control circuit terminal strips offer the features of the ES-36 Series, except with vertical binding screw terminals for field connections and dual .032 x .250 quick-connect terminals for factory connection.

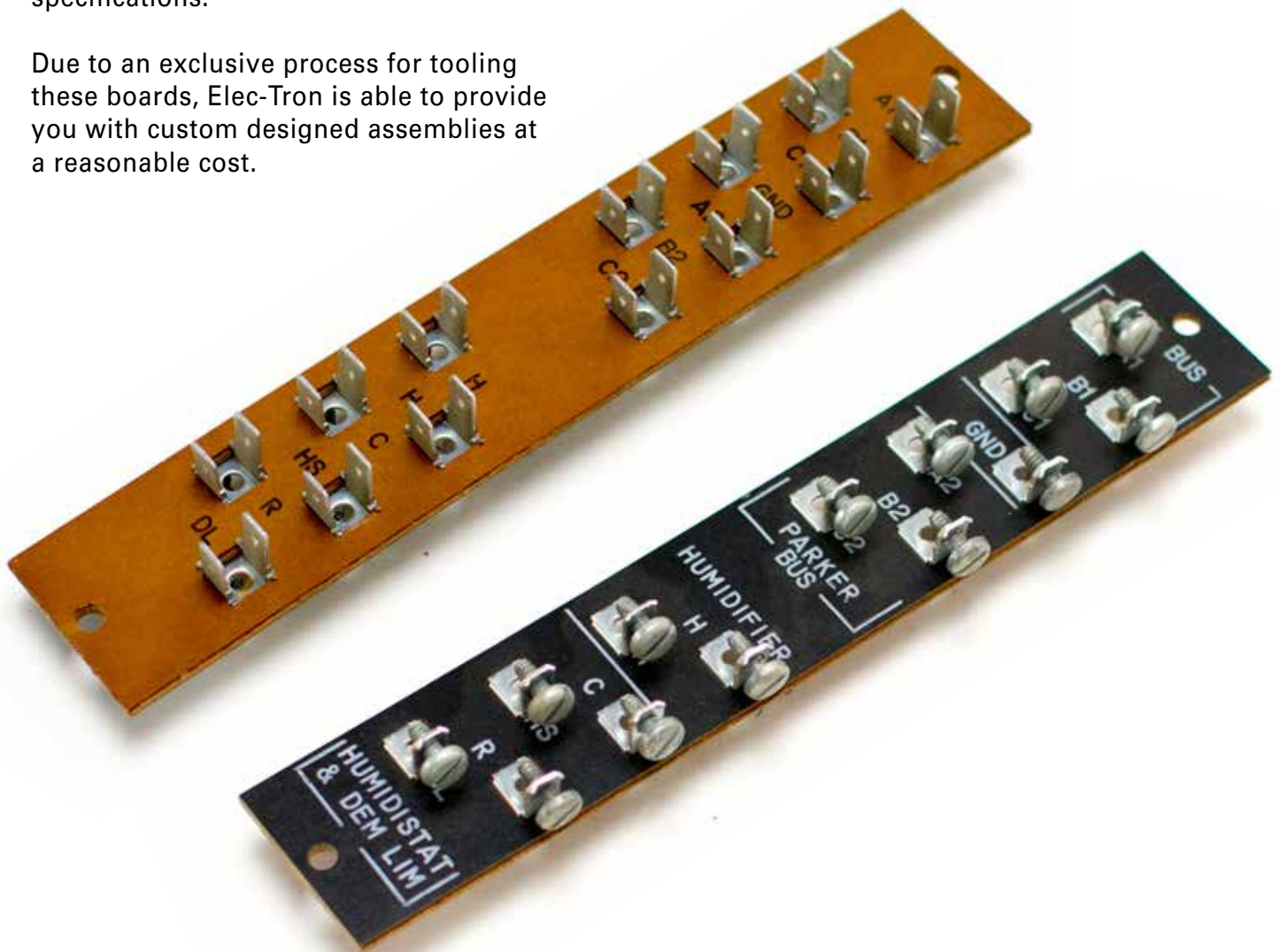
### Custom Designs

Although Elec-Tron offers standard board dies for these terminals, a sizeable portion of production involves designs of special terminal arrangements to a customer's specifications.

Due to an exclusive process for tooling these boards, Elec-Tron is able to provide you with custom designed assemblies at a reasonable cost.

Elec-Tron can provide terminal identification printing at a very reasonable cost, on one or both sides of the board. Printing is done with an ink that is not affected by water or most chemicals present in appliances.

Elec-Tron also offers die stamped terminal identification. While this is generally less visible than ink printing, and the tooling cost is much greater, it offers some cost savings on high volume items.



# EPC Printed Circuit Interface Terminal Boards

---

---



## ES-101 Series Vertical Mount Terminals

ES-101 terminals offer better ways to provide screw connections to your PC boards. The ES-101 Series centrally connects all your field wiring terminations in solid state circuits based on printed circuit boards.

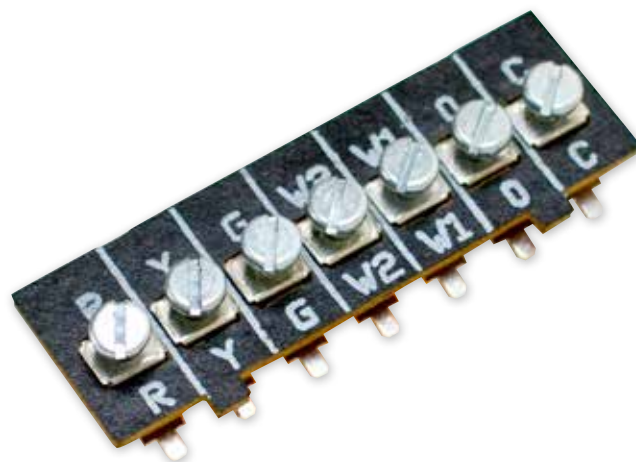
All field wiring connections are terminated at the interface board, including direct connections to the PC board as well as to remote sensors, controls or actuators. No additional sockets or plugs are required.

Screw terminals may be mounted perpendicular to the PC board, thus providing a means of protecting the PC board from field wiring damage.

Elec-Tron EPC Terminal Strips offer an efficient, cost-effective means of providing screw type connections to printed circuit boards. They are available in two terminal styles, for vertical or horizontal mounting.

EPC Terminal Strips simply plug into your PC boards and are ready for wave soldering.

Let Elec-Tron application engineers demonstrate just how effective EPC Terminal Strips can be for your products. Each EPC strip is custom designed for your individual requirement, including terminal identification printing to your specifications.





# Today Elec-Tron has the best quality record in the industry!



*How can Elec-Tron serve you?*

## El Series Snap-In Panel Fasteners

Elec-Tron offers its El Series feed-thru terminal boards with ITW Fastex's STALOK\* snap-in panel fasteners.

These fasteners dramatically reduce your assembly time and cost. Simply snap the terminal board into your cabinet panel. No tools are required.

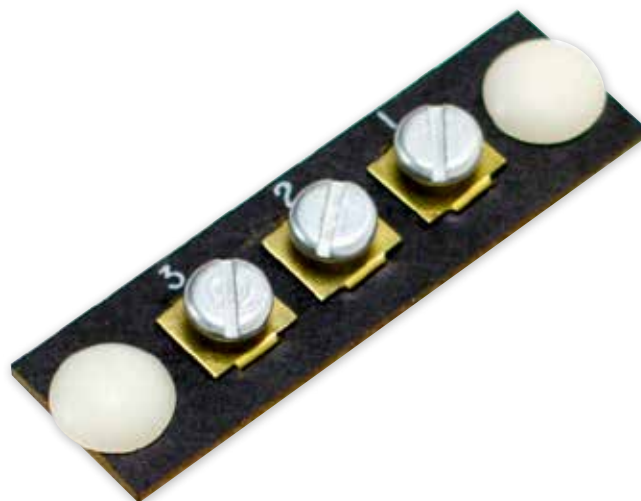
These snap-in panel fasteners securely join terminal boards to your panel. Non-removable from the front, they may be removed from the back.

Several size options are available to accommodate a wide range of panel and board thicknesses.

These fasteners are ideally suited for those applications where assembly time and costs are critical.

Our pre-installed fasteners cost far less than assembly line installed screws or rivets. There are no loose fasteners to inventory and no air-powered hand tools to maintain and account for. These fasteners offer simplicity at its finest.

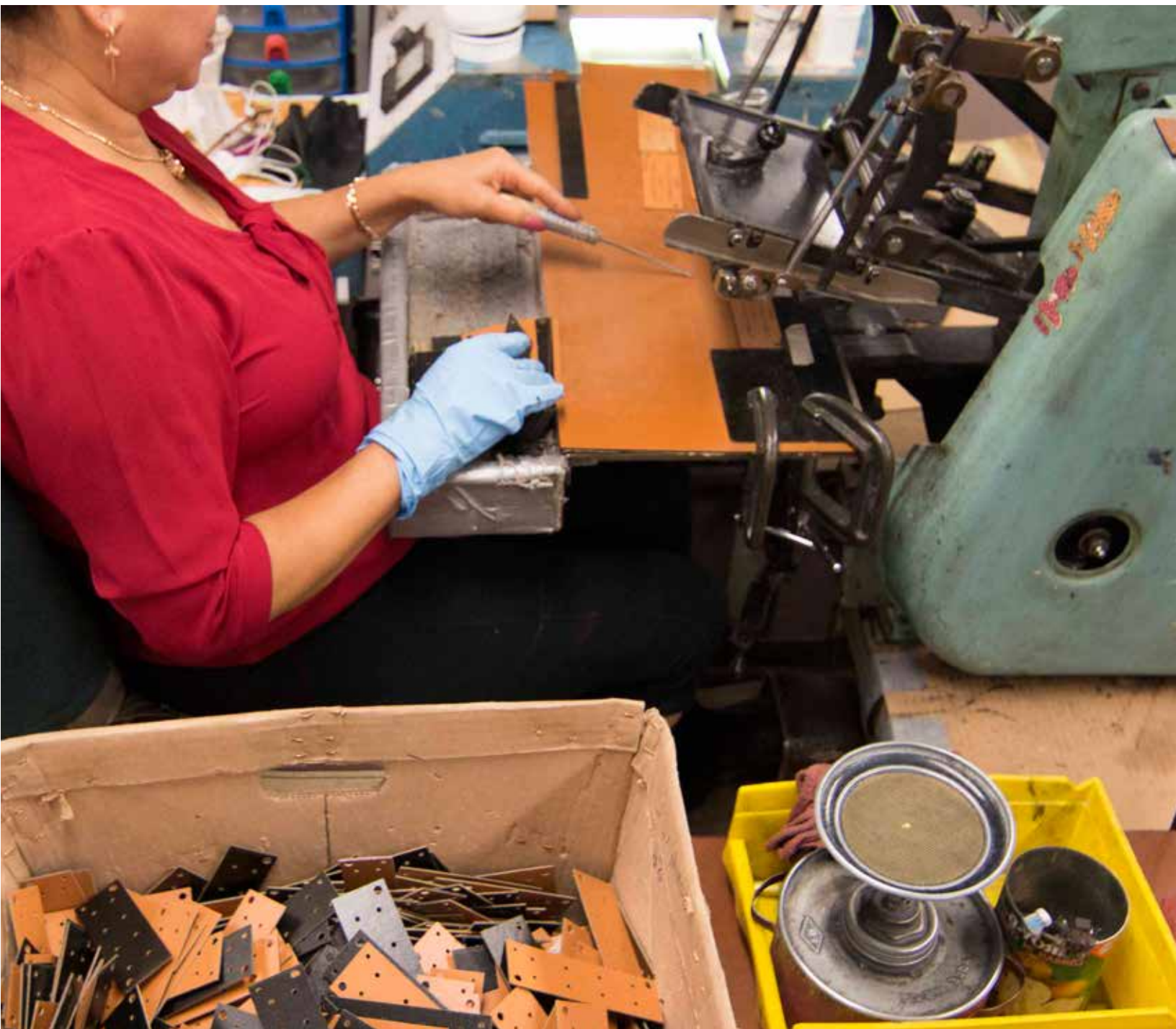
When the fastener is pressed into your panel hole, the prong arm compresses and then snaps back as it passes through. The board and panel are then securely retained between the fastener head and shoulder.



\*STALOK is a registered trademark of Illinois Tool Works.



# Component Boards





# Component Assemblies

If your product requires diodes, chokes, resistors, rectifiers, capacitors, thermal cutoffs, fuses or other small components, Elec-Tron is equipped to deliver a complete assembly.

In addition to being the industry's leading source for appliance terminal boards and terminal blocks, Elec-Tron offers these assemblies complete with secondary components.

Elec-Tron's facilities and expertise provide highly cost-effective assembly of these components by solder, staking, or resistance welding.

Our tooling includes many special terminals designed for just this purpose, terminals that provide multiple quick-connect tabs and bifurcated soldering lugs, usually in a single piece construction.

For most customers, this service yields substantial advantages:

- Reduced inventory of separate components
- Single source responsibility
- Simplified design
- Lower total cost

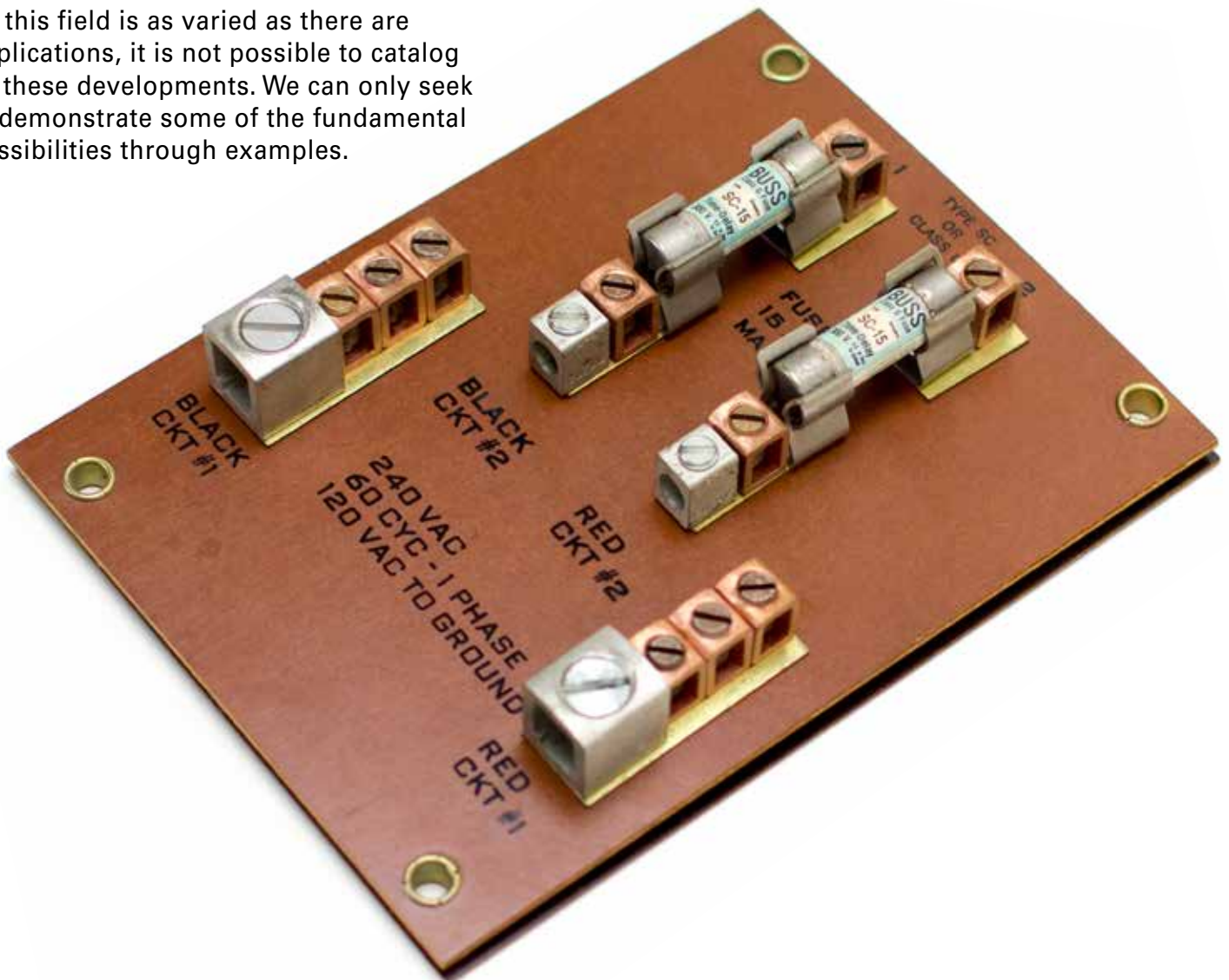
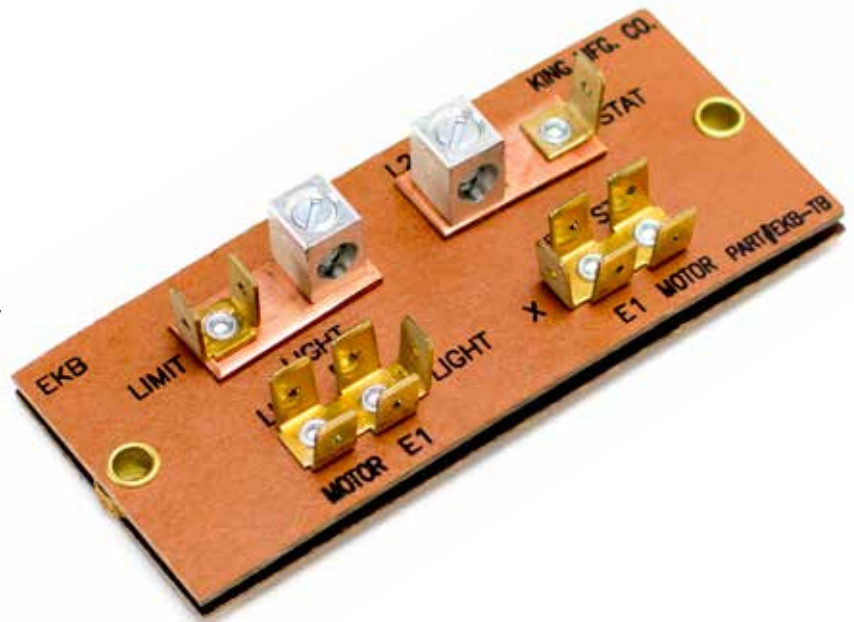


## Multi-Function Terminal Boards

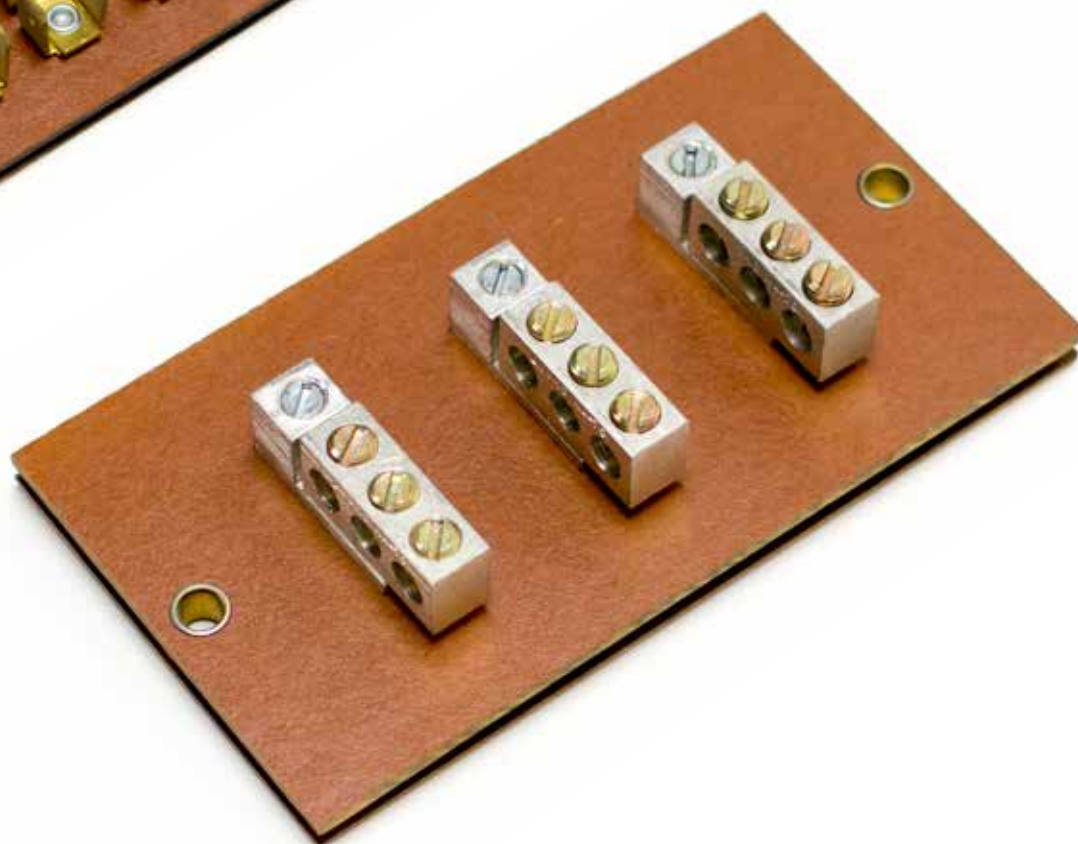
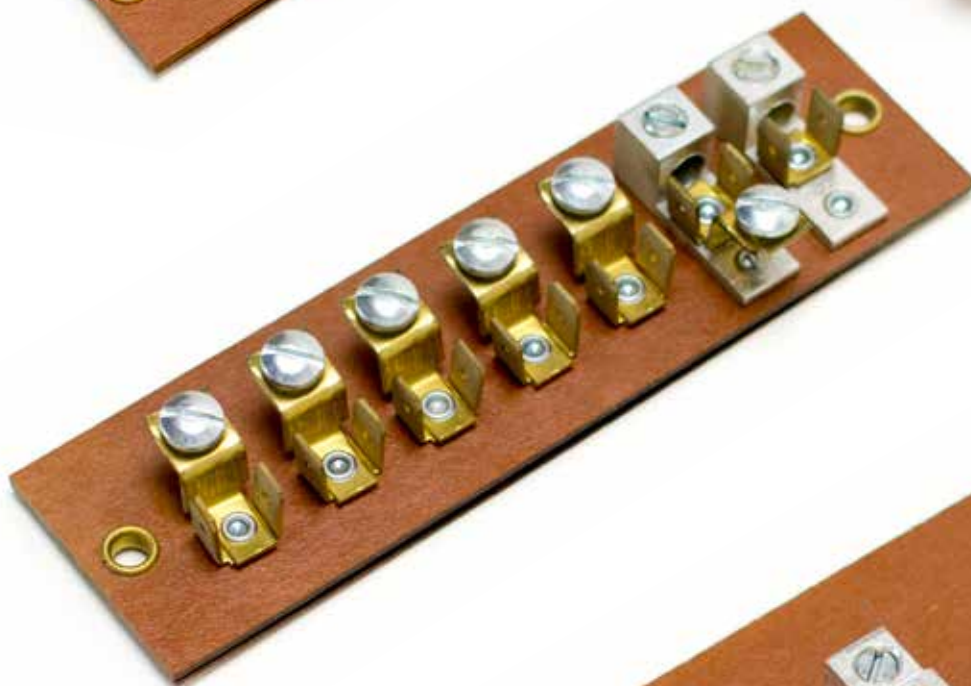
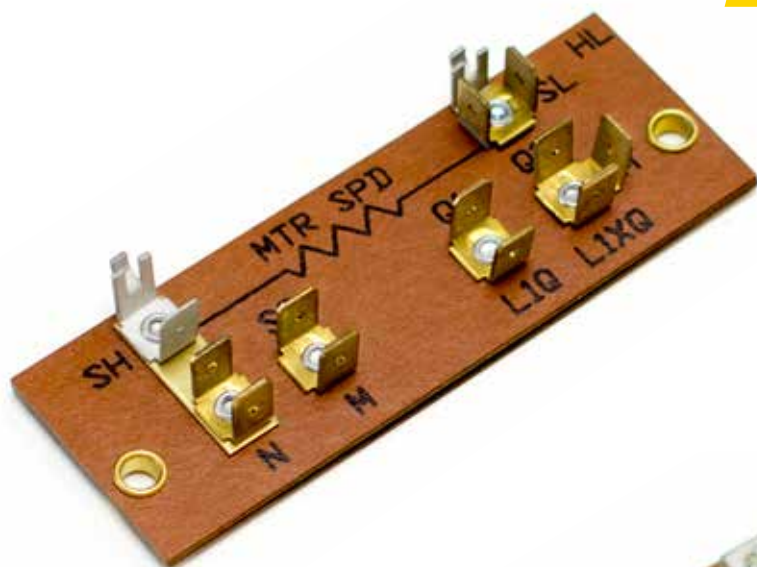
More and more appliance engineers are designing boards that serve multiple functions, thereby reducing assembly costs, providing more accessible servicing, reducing space requirements, and eliminating noise.

On the following pages are just a sampling of the boards Elec-Tron application engineers helped develop. Many of these designs substantially reduced costs and/or solved difficult problems.

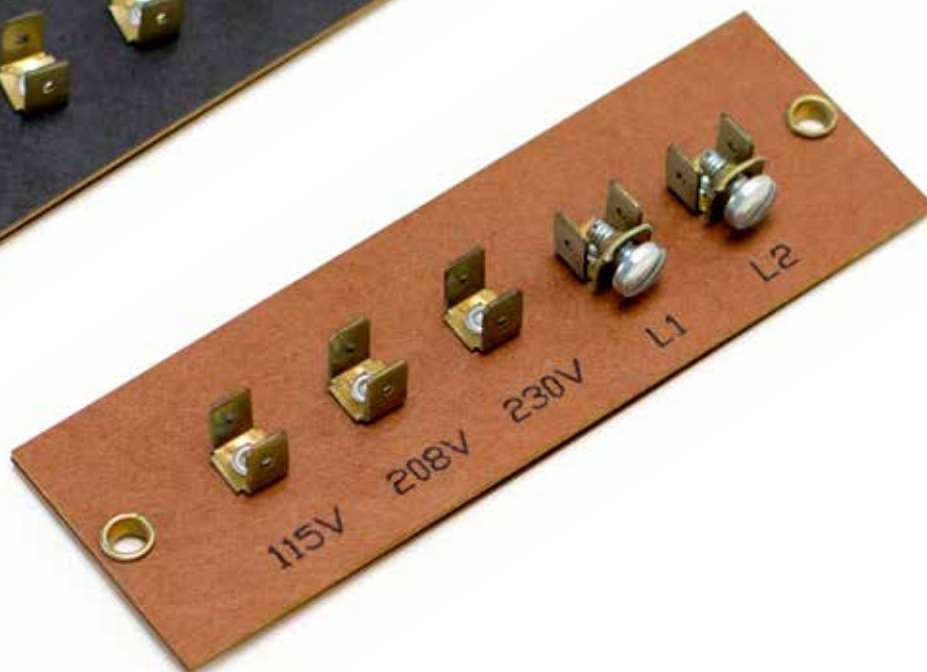
As this field is as varied as there are applications, it is not possible to catalog all these developments. We can only seek to demonstrate some of the fundamental possibilities through examples.





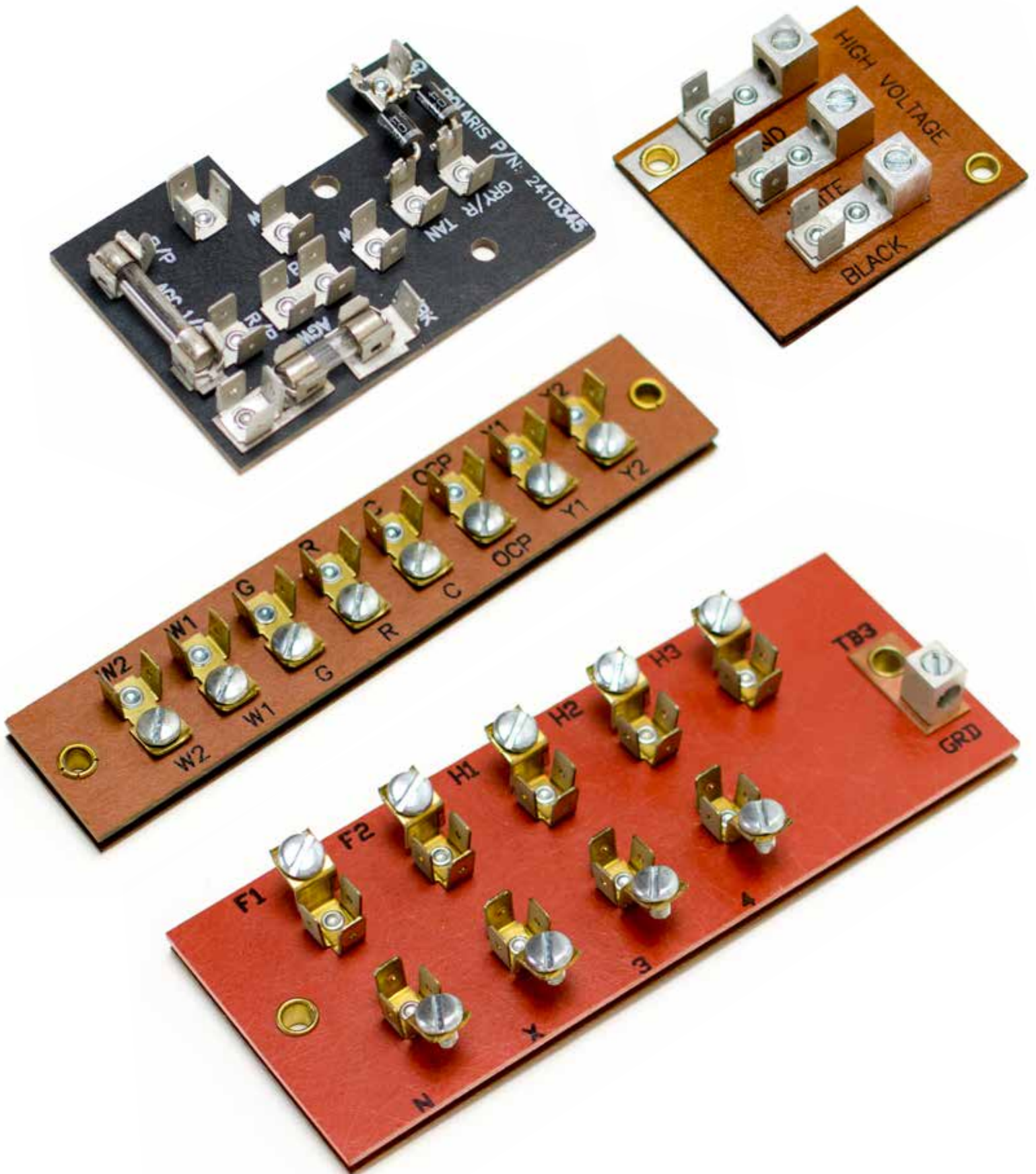




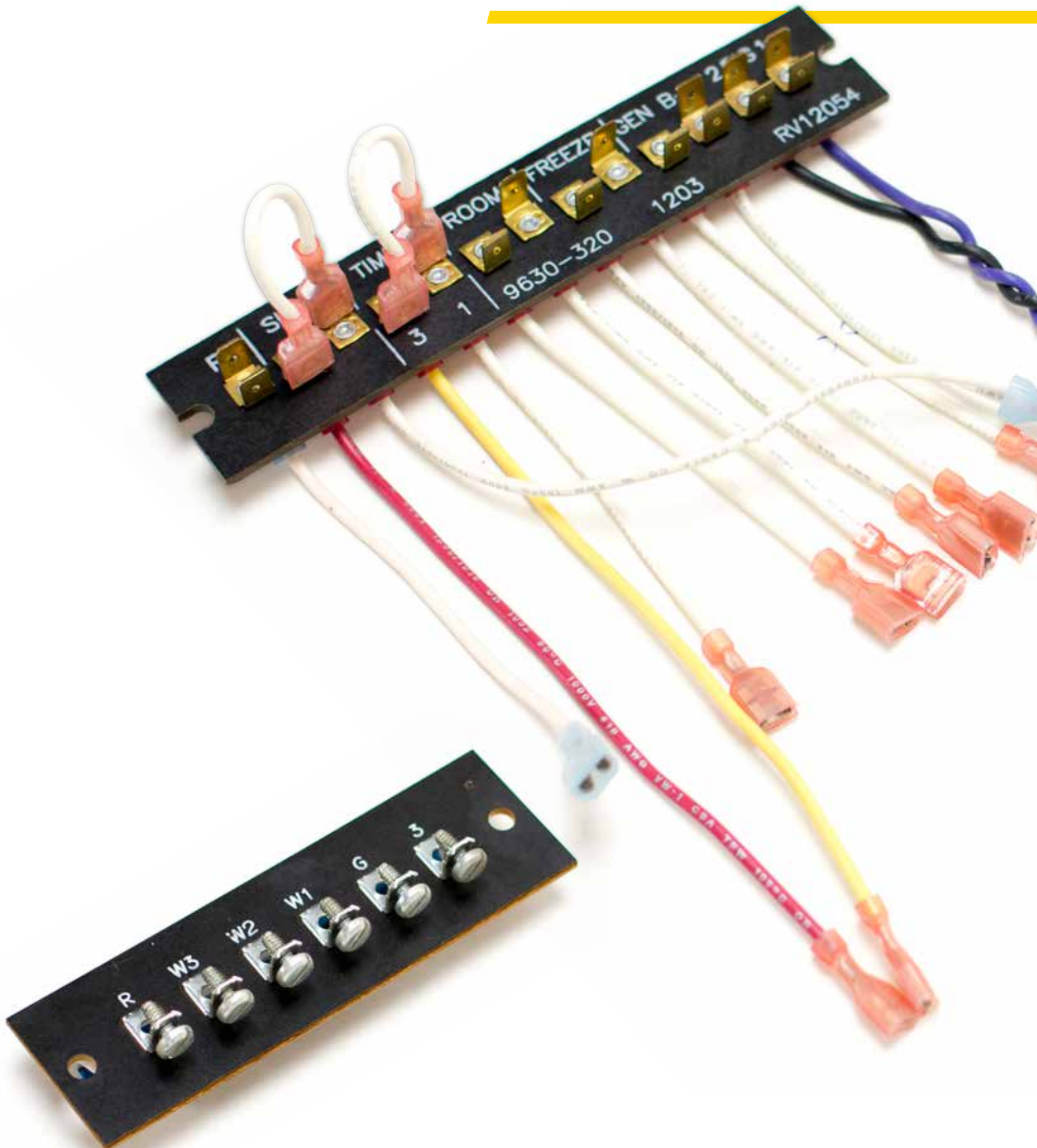














ELEC-TRON, INC.  
"Your Source with the Right Connections"

2050 E. Northern St.  
Wichita, KS 67216  
(316) 522-3401  
FAX (316) 524-6767  
[WWW.ELEC-TRONINC.COM](http://WWW.ELEC-TRONINC.COM)