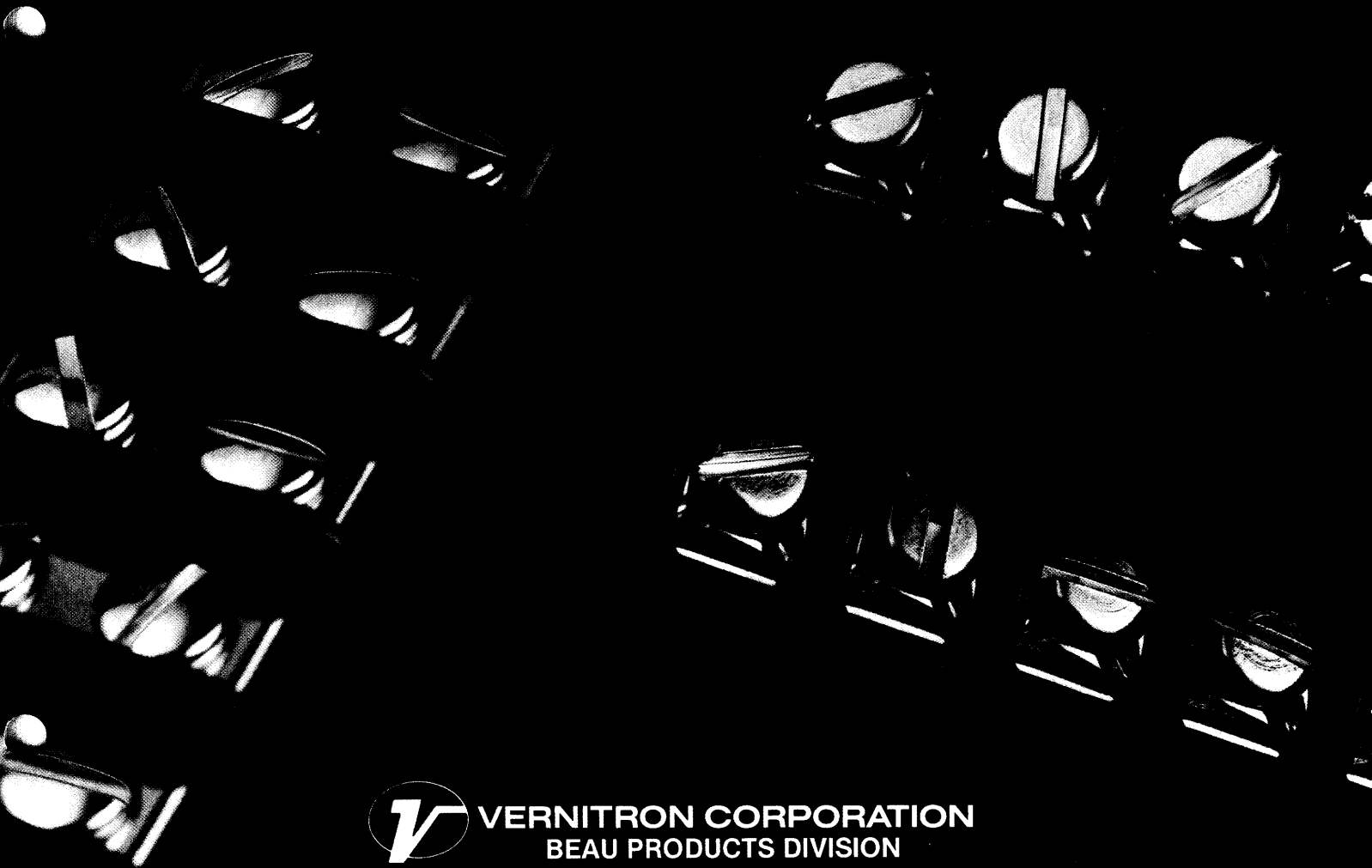
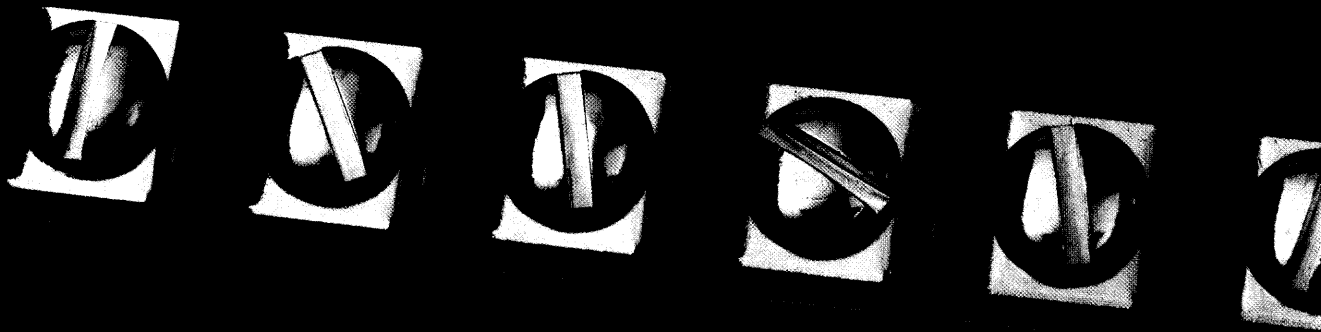


Beau® Barrier Terminal Strips



VERNITRON CORPORATION
BEAU PRODUCTS DIVISION

Beau[®] Barrier Terminal Strips:

In the past several years, Vernitron has made significant additions to its line of barrier terminal strips. The most obvious advance is the introduction of thermoplastic, the material that solves the primary fault of phenolic strips: barrier breakage. And it also attained UL's highest flame retardant rating, 94V-0.

But Vernitron didn't stop there. When we designed our new thermoplastic series, we incorporated a number of other significant improvements. We've ultrasonically welded the terminals in the thermoplastic insulator, so that you can't pull them out. At the same time, this design eliminates solder joint fatigue from twisting the tail when torquing the screws. And we've enclosed the contact tails to give you the greatest circuit isolation and the least possibility of trapping foreign material.

**consider
the
advantages
of
thermoplastics.**

With all this, we've also designed a 20-amp double-row strip (76000 Series)

that actually fits in the same panel space as 15-amp units. And we have a high-barrier style (72000 Series)

with an advantage over all the others — lower overall height.

Still, there's more to be said. The principal advantages are fully described on the next three pages. And there are other differences. Like the quality of our hardware.

Terminals with clean, smooth edges, and bright uniform, highly solderable plating. Insulators that exceed all the electrical/mechanical performance standards. These differences are the result of maintaining constant control over the manufacturing processes. And constant attention to tool maintenance. We have a fetish for quality. So, when you buy from Vernitron, you can expect the finest barrier terminal strips available — anywhere.

The basics:

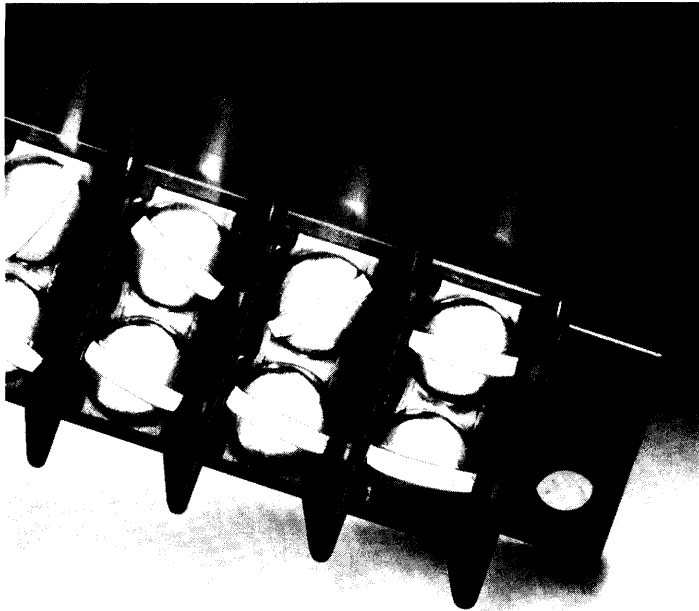
when to use barrier terminal strips

Barrier terminal strips are one of the most widely used and accepted devices for terminating wires. They have achieved this status because of their versatility and cost effectiveness—both initial cost and installed cost.

They provide increased insulation to stop leaks and short circuits. Wiring work is simplified because time-consuming splicing is eliminated. They offer the easiest and most convenient method for field wiring—only a screwdriver is needed. Usually, a higher density of circuitry can be attained, saving panel space. The end

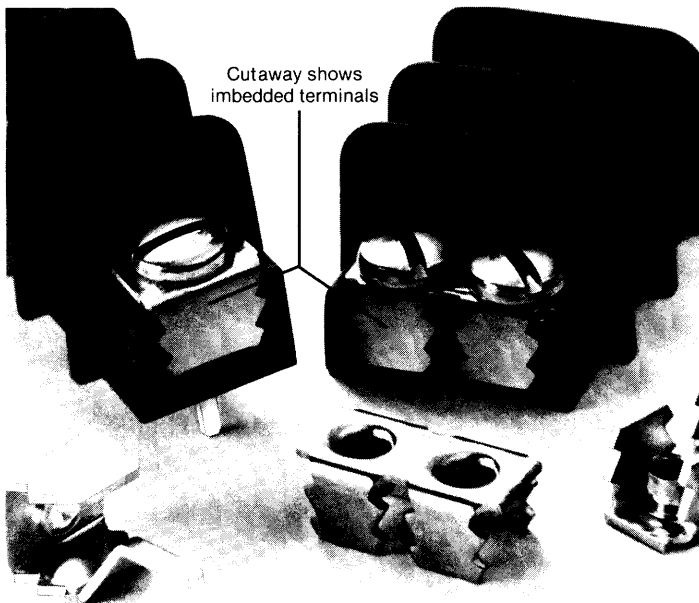
result is a professional looking termination rather than a jumble of wires. A great variety of top and bottom termination styles add to their versatility.

Barrier terminal strips also allow for convenient future changes. Circuit changes can usually be made just by rearranging wires. The barrier terminal strips also offer a good test point area for troubleshooting. Circuit tracing is especially easy when the strips are imprinted with circuit designations.



The barriers you can bend without breaking

Vernitron's flexible barrier terminal strips reduce breakage dramatically because they are made of a highly resilient glass-filled thermoplastic. Its impact strength is many times greater than phenolic materials. Because the barriers can actually bend without breaking, production line and in-field damage is virtually eliminated. Time-consuming component replacement and re-wiring, and its high cost, is no longer a problem.



Screw terminals that won't pull out

All our thermoplastic barrier strips feature screw terminal plates that are ultrasonically imbedded into the walls of the terminal blocks. The result: a dramatic improvement in pull-out strength.

Single-row types have the terminals imbedded into the walls of the insulator on both sides (photo). This provides a pull-out strength over twice as great as competitive designs, which retain the terminal only by twisting the terminal tail.

Double-row styles eliminate the problem of insecure terminal retention commonly found in closed back styles. The eyelets and nails have been eliminated. Instead, terminal plates (photo) are ultrasonically welded (imbedded) into the barrier strip—making it virtually impossible to pull them out.

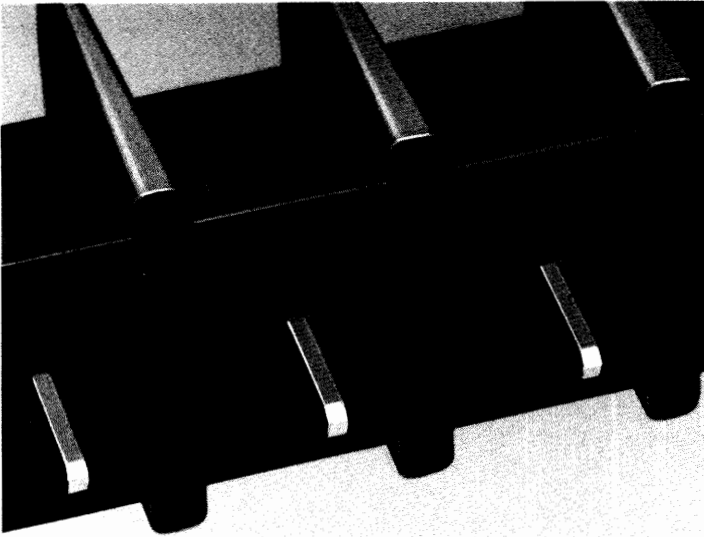


Solder joint fatigue eliminated

Because our barrier strips have the terminals welded in both sides, you get this additional advantage: solder joint fatigue from twisting the tail while torquing the screws or laying the wire bundle is eliminated. This design also resists fatigue under vibration conditions.

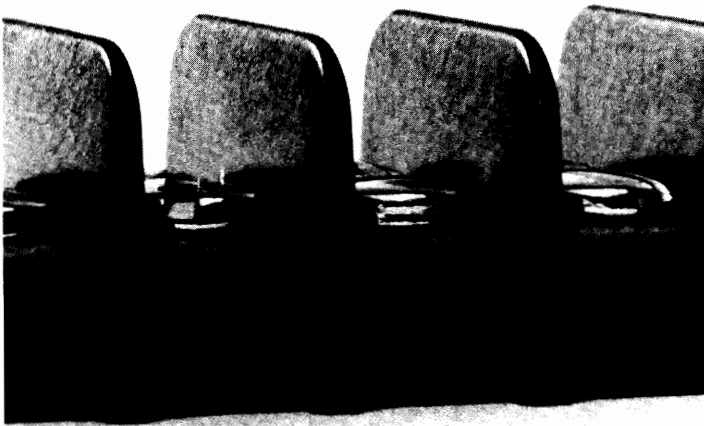
Highest UL flame retardant rating

The thermoplastic material attains the highest flame retardant rating (self extinguishing) assigned by Underwriters Laboratories, 94V-0. It also offers negligible water absorption, high dielectric strength and low heat transfer.



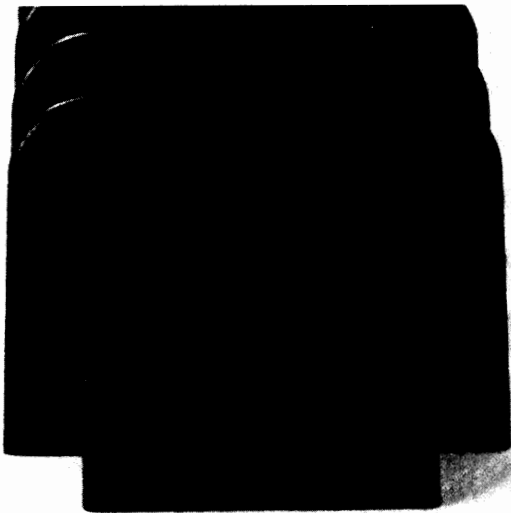
Contact tails enclosed for maximum circuit isolation

Take a look at the bottom side of our thermoplastic barrier terminal strips (photo). You'll notice the absence of a large size hole required to allow for the twisting action needed to retain ordinary terminals. In Vernitron's design, the terminals are welded in, so the hole can be virtually the same size as the contact tail. With the cavities around dip solder contact tails eliminated, the terminal strip can be mounted directly against a PC board without affecting circuit isolation. This also eliminates entrapment of foreign matter—and reduces solder wicking.



High barrier styles offer maximum circuit isolation with minimum overall height

Our high barrier styles provide maximum circuit isolation—even when using large wire sizes. In addition, the 72000 high-barrier strip offers an overall height that is less than any others. The reason: our special design does not require twisting of the contact tail for terminal retention, and makes it possible to reduce the height of the base—thus saving valuable space. The shorter terminal also reduces heat generation.



Neat, accurate mounting ends

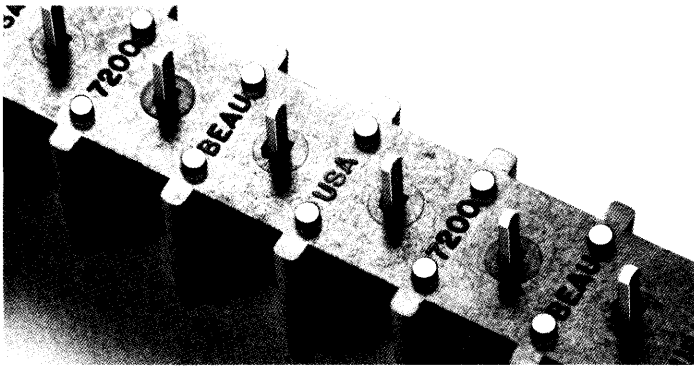
All our thermoplastic terminal strips are molded to length. None are cut down from longer strips. The result is a neater strip without ugly saw cuts, and strips that are precisely the same length every time.

No insulating strips needed

Because all our thermoplastic series have closed backs, you can get the electrical rating you want—without the expense of buying and installing insulating strips.

A 20-amp double-row strip in the same space as 15

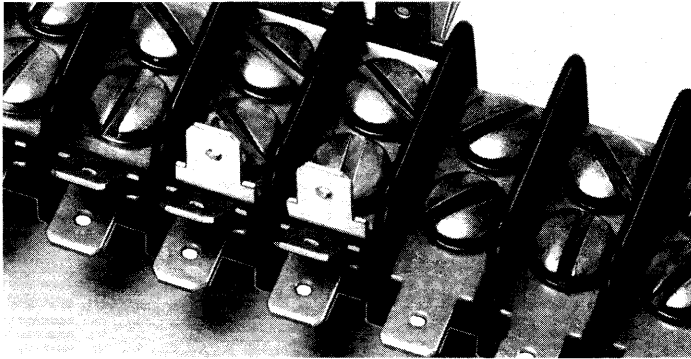
Our Series 76000 and 77000 are 20-amp strips that have been designed to take the same panel space as any double-row 15-amp barrier terminal strip. They are $\frac{7}{8}$ " wide and have screw terminals $\frac{3}{8}$ " on centers—just like the strips they are designed to replace, as listed on page 21.



Standoffs reduce cleaning time

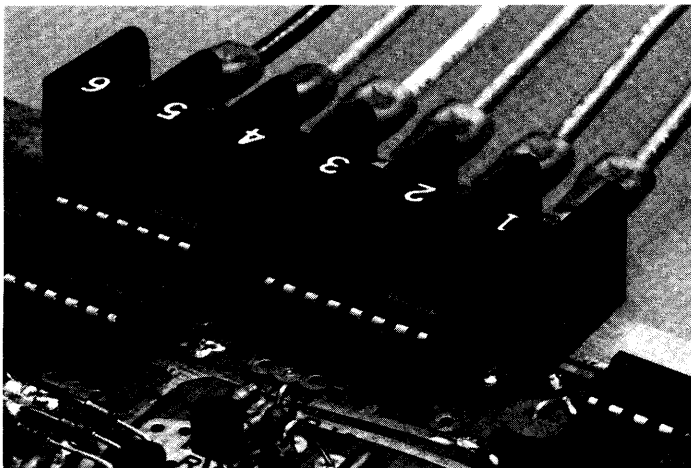
The bottom of our single-row barrier terminal strips can be molded with standoffs (option-P).

They provide a space between the bottom and the mounting surface. This further reduces entrapment of foreign materials during soldering and reduces cleaning time to a minimum.



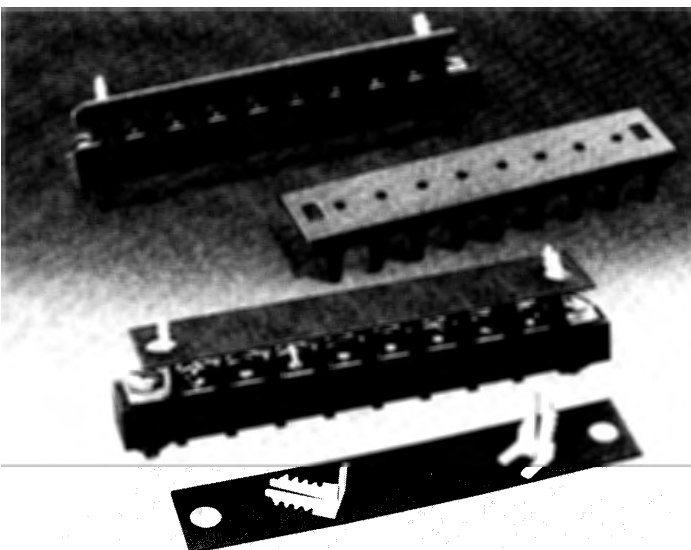
Quick-connect terminals save assembly time, cut costs

Beau quick-connect terminals speed your assembly time, cut costs, and improve your connections. Cold solder joints are also eliminated. Quick-connect terminals offer one of the fastest ways to make circuitry changes. A variety of single and two sided styles are available for top-side terminations. As many as three can be stacked in a single section—to attain up to six terminations. In addition, Series 72000 and 73000 are available with an insulated quick connect on the bottom.



Closed-side strips serve as wire stop—and save PC board space

The 75000 Series strips have a closed side which stops wires from passing through. Board components can be positioned closer to the barrier terminal strip, resulting in a more efficient use of PC board space. Accidental damage to closely mounted components is also prevented. Bottom terminal tails are offset to permit mounting close to edge of PC board, also saving board space.



Snap-on covers add protection at low cost

Two styles of covers are available which are easily snapped onto barrier terminal strips, providing the required protection at low cost. Flat covers protect the top of the strip and are the most economical type available. Wrap-around covers protect the top and both sides. Both types are easily removed for quick access, yet cannot be accidentally dislodged.

Conversion Chart

How to convert phenolic styles to thermoplastic

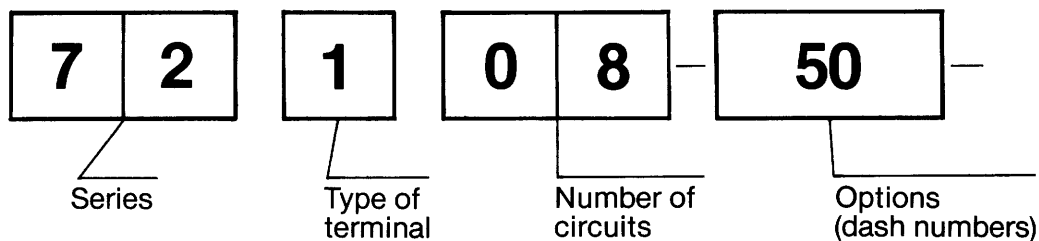
You can obtain all the advantages of bendable thermoplastic barrier terminal strips by converting from fragile phenolic types. The Vernitron thermoplastic styles shown in the right hand column are designed to replace the styles listed in the center column.

Manufacturer	Convert from these phenolic styles...	...to these thermoplastic styles from Vernitron
Cinch	140 141 164 174 540 541	76000, 77000 78000 76000, 77000 71000, 72000 76000, 77000 78000
Curtis	GBP GBS GFT 1500	73500 73100 73200 76000, 77000
ETC	14000 34000 27000 37000 57000 67000 28000 38000	71000, 72000 71000, 72000 76000, 77000 76000, 77000 76000, 77000 76000, 77000 78000 78000
General Electric	CR151-D1 CR151-D2 CR151-D7	76000, 77000 78000 76000, 77000
Kulka	599 600 600A 601 670 670A 671 699 1590 1690 2590 2690	71000, 72000 76000, 77000 76000, 77000 78000 76000, 77000 76000, 77000 78000 73000 71000, 72000 73000 71000, 72000 73000
Marathon	100 200	76000, 77000 78000
Vernitron (Beau)	12000 13000 14000 15000 16000 17000 18000 19000	71000, 72000 73000 76000, 77000 76000, 77000 76000, 77000 76000, 77000 78000 78000

Selection Guide

Terminal centers	Current rating amps (UL)	Voltage rating, rms — UL Recognized		Insulator material	Series No.	Pages
		General industrial	Commercial equipment			
SINGLE-ROW BARRIER TERMINAL STRIPS						
.325"	20	150	250	Thermoplastic	70000	9-10
3/8"	15	150	250	G. F. Phenolic	12000	11-13
3/8"	20	150	250	Thermoplastic	71000	11-13
3/8"	20	150	250	Thermoplastic	72000	11-13
7/16"	20	150	250	G. F. Phenolic	13000	16-18
7/16"	20	300	250	G. F. Thermoplastic	73000	16-18
SINGLE-ROW, CLOSED-SIDE BARRIER TERMINAL STRIPS						
3/8"	20	150	250	Thermoplastic	75000	14-15
DOUBLE-ROW BARRIER TERMINAL STRIPS						
1/4"	10	150	250	Phenolic	10000	19
3/8"	15	150	250	Phenolic	14000	20-23
3/8"	20	150	250	Thermoplastic	76000	20-23
3/8"	20	150	250	Thermoplastic	77000	20-23
7/16"	20	300	250	Phenolic	18000	24-26
7/16"	20	300	250	Phenolic	19000	24-26
7/16"	20	300	250	Thermoplastic	78000	24-26
9/16"	30	600	600	Phenolic	21000	27-28
9/16"	30	600	600	Phenolic	22000	27-28
GUIDE TO UNDERWRITERS LABORATORIES RATINGS						8
SNAP-ON COVERS						29
MARKER STRIPS						30
IMPRINTING						31
CUSTOM DESIGNS						32

How to Order



The basic catalog number contains five digits. As many options as are desired may be obtained by adding the appropriate dash numbers. For choices of terminals, number of circuits, and options available, refer to individual series.

Guide to U.L. ratings

Precautions on comparing electrical ratings

The electrical ratings shown in this catalog are clearly marked to indicate which are recognized by Underwriters Laboratories. When comparing the ratings for Beau Barrier Terminal Strips with another brand, **be sure** that you are comparing our **UL ratings** against their **UL ratings**. Some manufacturers show voltage ratings that are considerably higher than the UL ratings. These manufacturers may be showing voltage ratings based on their own tests. While their products could be recognized by UL, the voltage ratings shown by some of them are not UL ratings.

All terminal blocks are rated under the same UL standard, 1059. Voltage and current rating guidelines from this standard are shown below. All terminal blocks that have UL recognition must fit into one of the classifications shown. For example, note that the highest voltage

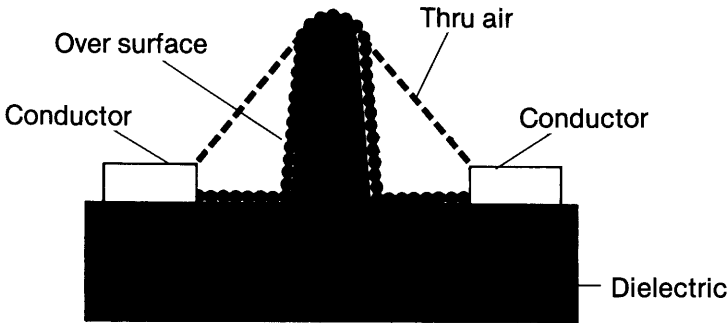
rating in any class is 600V. Terminal blocks by themselves are never given a higher UL rating than that. However, it is possible to obtain higher ratings than those listed, depending upon the specific application. UL will consider requests for higher ratings on a case-by-case basis.

To aid the designer, Beau Products also includes a rating for **withstand volts, rms** for each series of barrier terminal strips. Based on our own tests, these are conservative ratings that will assist in selection of the most appropriate series for your application.

Beau Barrier Terminal Strips are recognized by Underwriters Laboratories under UL Standard 1059. They are listed under File No. E48521, Guide No. XCFR2.

UL 1059 Basic Voltage Rating

The voltage ratings of terminal blocks will be based upon the minimum spacing between electrically conductive parts of opposite polarity or between an electrically conductive part and a metal mounting surface measured under two conditions: through air, defined as the distance an arc must take through air to go from one live conductor to another or from a live conductor to ground; and over surface, defined as the distance an arc must take over the surface of the insulating material going from one terminal to ground, or from one terminal to another, assuming the arc will travel along the surface rather than through air. The chart at right reflects UL 1059 spacing requirements, in inches.



	Voltage	Spacing requirements	
		Thru air	Over surface
Class A	51-125	.50	.75
	126-250	.75	1.25
	251-600	1.00	2.00
Class B	51-125	.06	.06
	126-250	.09	.09
	251-600	.38	.50
Class C	51-150	.12	.25
	151-300	.25	.38
	301-600	.38	.50

Class A. Service equipment including deadfront switchboards, panel boards, service entrance devices, etc.

Class B. Commercial appliances including business equipment, electronic data processing equipment and the like.

Class C. General industrial and machine tool controls which can be further defined as equipment falling under UL 508.

UL 1059 Basic Current Rating

A terminal block shall be capable of carrying continuously a current having a value in accordance with the maximum size of wire or cable for which the terminal is designed, or a current equal to

the terminal block rating, without exceeding a temperature rise of 30°C (54°F).

Single Row

20 amps
.325" centers (8,3)
thermoplastic
70000

Specifications

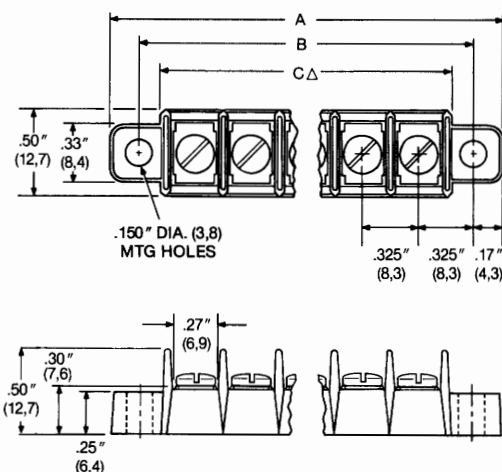
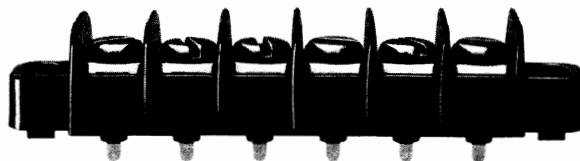
Series No.	70000
Construction	High barrier; closed back or feed thru
Terminal centers	.325" (8,3)
Current rating, amps (UL)	20
Voltage rating, rms	
1. UL Recognized...	250
Class B: Comm'l equip	150
Class C: Gen'l ind'l	300 @ 10 amps; 150 @ 15 amps
2. CSA certified	8500
3. Withstand volts, rms	
Insulator material	Thermoplastic. UL temp index 80 °C. UL flame retardant rating 94V-0. Color, black.
Width x height	1/2" x 1/2" (12,7 x 12,7)
Wire size recommended, max AWG	14
Terminal screws (standard; also see options below)	No. 6-32 x 1/4" pan head screws. Steel, cadmium plated
Top-side terminals (The 1 becomes 3rd digit of Cat. No.; 3-digit number is dash number) ▲	1 Closed back, screws only -701 One-sided solder
Bottom terminals (3rd digit of Cat. No.) ▲	5 PC 7 Wire wrap 8 Right angle PC
No. of circuits (4th & 5th digits of Cat. No.) ▲	1 to 30
Options (add dash numbers to Cat. No.) ▲	-10A thru -11D Imprinting (on side opposite feed thru) -12A thru -13B Imprinting (both sides) -49 Nickel-plated brass pan head screws -50 Rising surface clamp screws -51 Internal lock washer screws -52 External lock washer screws -53 Phillips head screws -58 Barrier supplied without screws -59 Screws supplied, unassembled -C Without mounting ends -M Metric screws -P With standoff pads, .125" DIA. x .040" H (3,2 x 1,0) -V Valox insulator material, UL temp index 130 °C
Top-side hardware (option; indicate circuit positions)	7033 Jumper, edge on

Small size saves space

At .325" center-to-center, it's the smallest single row barrier terminal strip we make. Saves valuable space on PC boards, in wire wrap applications, etc.

Dimensions in parenthesis are millimeters.

Dimensions



No. of circuits	A		B		CΔ	
	in.	mm	in.	mm	in.	mm
1	.98	24,9	.65	16,5	—	—
2	1.31	33,1	.98	24,8	.73	18,4
3	1.63	41,4	1.30	33,0	1.05	26,7
4	1.96	49,7	1.63	41,3	1.38	34,9
5	2.28	57,9	1.95	49,5	1.70	43,2
6	2.61	66,2	2.28	57,8	2.03	51,4
7	2.93	74,4	2.60	66,0	2.35	59,7
8	3.26	82,7	2.93	74,3	2.68	67,9
9	3.58	90,9	3.25	82,6	3.00	76,2
10	3.91	99,2	3.58	90,8	3.33	84,5
11	4.23	107	3.90	99,1	3.65	92,7
12	4.56	116	4.23	107	3.98	101
13	4.88	124	4.55	116	4.30	109
14	5.21	132	4.88	124	4.63	117
15	5.53	140	5.20	132	4.95	126
16	5.86	149	5.53	140	5.28	134
17	6.18	157	5.85	149	5.60	142
18	6.51	165	6.18	157	5.93	151
19	6.83	173	6.50	165	6.25	159
20	7.16	182	6.83	173	6.58	167
21	7.48	190	7.15	182	6.90	175
22	7.81	198	7.48	190	7.23	184
23	8.13	207	7.80	198	7.55	192
24	8.46	215	8.13	206	7.88	200
25	8.78	223	8.45	215	8.20	208
26	9.11	231	8.78	223	8.53	217
27	9.43	240	9.10	231	8.85	225
28	9.76	248	9.43	239	9.18	233
29	10.08	256	9.75	248	9.50	241
30	10.41	264	10.08	256	9.83	250

Tolerance on length ± .015"

△ Overall length without mounting ends.

70000 continued

Avoid breakage with tough thermoplastic strips

Vernitron's flexible barrier terminal strips reduce breakage dramatically because they are made of a highly resilient thermoplastic. Its impact strength is many times greater than phenolic. The barriers can bend without breaking, virtually eliminating production line and in-field damage. Costly component replacement and re-wiring are no longer a problem.

Double the pull-out strength

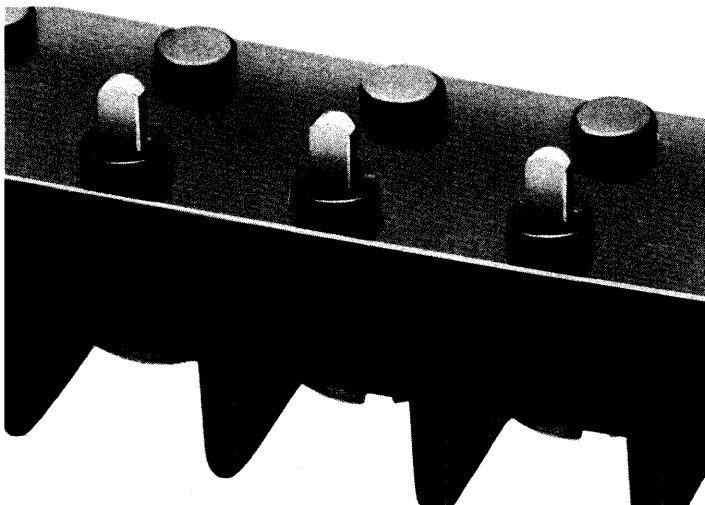
With our unique design, terminals are imbedded into the walls of the terminal block on both sides. This provides a pull-out strength much greater than competitive designs, which retain the terminal only by twisting or staking the terminal tail. Imbedding the terminals also eliminates solder joint fatigue from twisting the tail while torquing the screws, and resists fatigue under vibration conditions.

Contact tails enclosed for maximum circuit isolation

Because our terminals are ultrasonically welded in, there's no need to twist the tails to secure them. As a result, the large hole usually required to allow for the twisting action can be made virtually the same size as the contact tail. With the cavities around dip solder contact tails eliminated, the terminal strip can be mounted directly against a PC board without affecting circuit isolation. This also eliminates entrapment of foreign matter — and reduces solder wicking.

Interchangeable with other makes

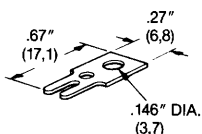
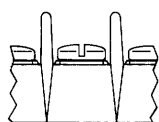
The 70000 series is designed to be interchangeable with other barrier terminal strips having .325" screw centers. You can easily switch to Beau and get exclusive advantages such as better terminal retention and maximum circuit isolation.

**Standoff pads reduce cleaning time**

The bottom of two styles (with PC terminals and wire wrap terminals) can be molded with .125" diameter standoff pads (option -P). They provide a space of .040" between the bottom and the mounting surface. This further reduces entrapment of foreign materials during soldering and reduces cleaning time to a minimum.

Top side terminals

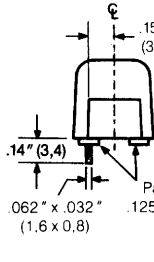
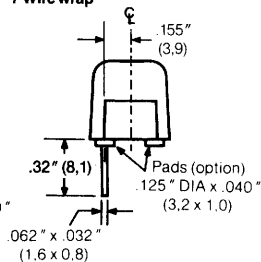
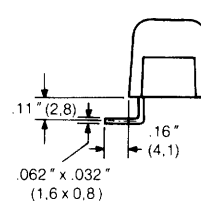
Material: .032" (0,8) brass,
bright electro-tinned

1 Closed back**-701* One-sided solder**

*Option; order by dash number.
To order in bulk, use this catalog
number without the dash.

Bottom terminals

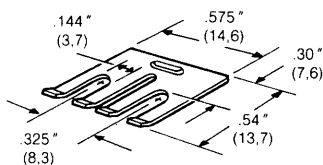
Material: .032" (0,8) brass,
bright electro-tinned

5 PC**7 Wire wrap****8 Right angle PC****Jumper**

Material: .020" (0,5)
brass, nickel plated

7033/ Jumper, edge on

For jumping 2 to 30 adjacent terminals



☐ To order in a continuous strip, indicate
number of circuits.

Single Row

15 amps
3/8" centers (9,5)

12000

20 amps
3/8" centers (9,5)
thermoplastic

71000

20 amps
3/8" centers (9,5)
thermoplastic

72000

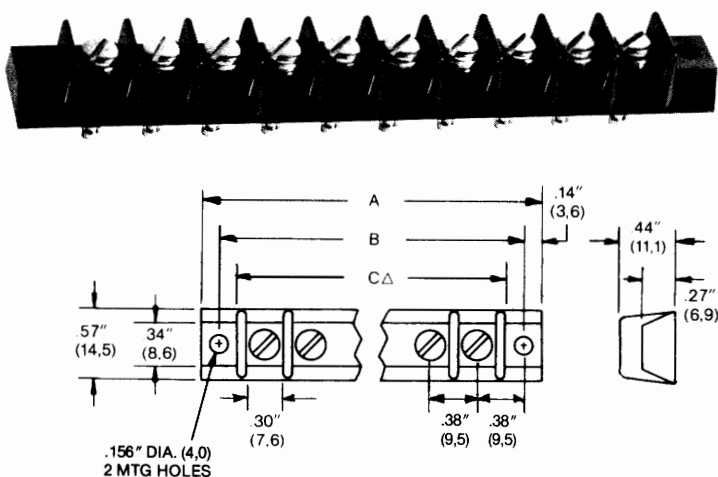
Specifications

Series No.	12000	71000	72000
Construction	Closed back or feed thru	Closed back or feed thru	High barrier; closed back or feed thru
Terminal centers	3/8" (9,5)	3/8" (9,5)	3/8" (9,5)
Current rating, amps (UL)	15	20	20
Voltage rating, rms			
1. UL Recognized...			
Class B: Comm'l equip	250	250	250
Class C: Gen'l ind'l	150	150	150
2. CSA Certified	300 @ 15 amps	150 @ 20 amps	300 @ 20 amps
3. Withstand volts, rms	8500	8500	10500
Insulator material	Glass-filled phenolic. UL temp index 150 °C. Color, dark green.	Thermoplastic, glass-filled. UL temp index 95 °C. UL flame retardant rating 94V-0. Color, black.	
Width x height	9/16" x 7/16" (14,5 x 11,1)	5/8" x 9/16" (16 x 14,2)	5/8" x 21/32" (16 x 16,8)
Wire size recommended, max AWG	16	14	14
Terminal screws (standard; also see options below)	No. 5-40 x 3/16" binding head screws. Steel, cadmium plated	No. 6-32 x 1/4" binding head screws. Steel, cadmium plated	
Top-side terminals (The 1 becomes 3rd digit of Cat. No.; 3-digit numbers are dash numbers)▲	1 Closed back, screws only -121 One-sided solder -122 Two-sided solder		
Bottom terminals (3rd digit of Cat. No.)▲	5 PC, .090" DIA. (2,3) 6 Solder turret 9 PC, .062" DIA. (1,6)	2 Insulated solder turret 3 Insulated PC 5 PC 6 Solder turret 7 Wire wrap 8 Right angle PC 9 Insulated quick-connect	
No. of circuits (4th & 5th digits of Cat. No.)▲	1 to 31	1 to 26	
Options (add dash numbers to Cat. No.)▲	-10A thru -11D Imprinting, one side -12A thru -13B Imprinting, both sides -49 Nickel-plated brass binding head screws -58 Barrier supplied without screws -59 Screws supplied, unassembled -C Without mounting ends -M Metric screws	-10A thru -11D Imprinting, one side -12A thru -13B Imprinting, both sides -49 Nickel-plated brass binding head screws -50 Rising surface clamp screws -51 Internal lock washer screws -52 External lock washer screws -53 Phillips head screws -56 Stainless steel screws -58 Barrier supplied without screws -59 Screws supplied, unassembled -C Without mounting ends -E Solid molded mounting ends (dimension drawing on next page) -M Metric screws -P With standoff pads, .070" DIA. x .040" H (1,8 x 1,0) (for 72000) -V Valox insulator material, UL temp index 130 °C	
Top-side hardware (options; indicate circuit positions)	1210 thru 1218 Quick-connect terminals, .187" tab 1219 Quick-connect terminals, .110" tab 1431 Jumper, hole (for 12000) 1432 Jumper, slotted (for 12000) 7231 Jumper, hole (for 71000 & 72000) 7232 Jumper, slotted (for 71000 & 72000) 7233 Jumper, edge on		

Dimensions in parenthesis are millimeters.

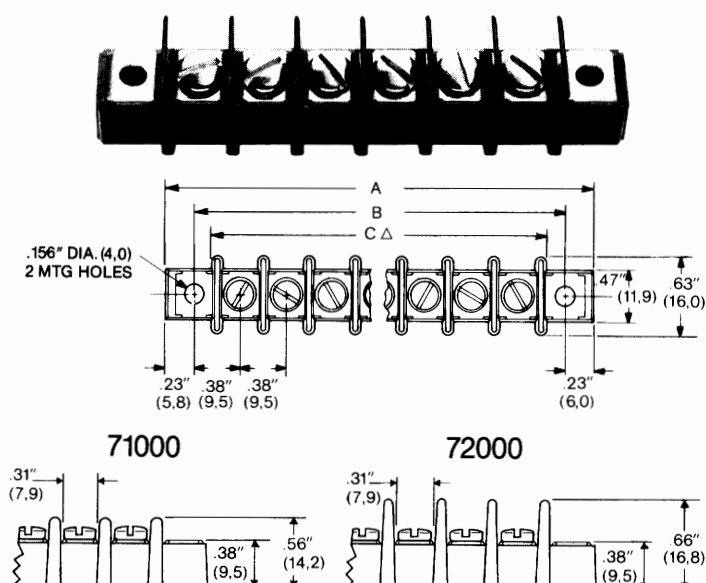
12000, 71000, 72000 continued

Dimensions - 12000



No. of circuits	A		B		C Δ	
	in.	mm	in.	mm	in.	mm
1	1.03	26,2	.75	19,1	.52	13,1
2	1.41	35,8	1.13	28,7	.89	22,6
3	1.78	45,2	1.50	38,1	1.27	32,1
4	2.16	54,9	1.88	47,8	1.64	41,7
5	2.53	64,3	2.25	57,2	2.02	51,2
6	2.91	73,9	2.63	66,8	2.39	60,7
7	3.28	83,3	3.00	76,2	2.77	70,2
8	3.66	93,0	3.38	85,9	3.14	79,8
9	4.03	102	3.75	95,3	3.52	89,3
10	4.41	112	4.13	105	3.89	98,8
11	4.78	121	4.50	114	4.27	108
12	5.16	131	4.88	124	4.64	118
13	5.53	140	5.25	133	5.02	127
14	5.91	150	5.63	143	5.39	137
15	6.28	160	6.00	152	5.77	146
16	6.66	169	6.38	162	6.14	156
17	7.03	179	6.75	171	6.52	166
18	7.41	188	7.13	181	6.89	175
19	7.78	198	7.50	191	7.27	185
20	8.16	207	7.88	200	7.64	194
21	8.53	217	8.25	210	8.02	204
22	8.91	226	8.63	219	8.39	213
23	9.28	236	9.00	229	8.77	223
24	9.66	245	9.38	238	9.14	232
25	10.03	255	9.75	248	9.52	242
26	10.41	264	10.13	257	9.89	251
27	10.78	274	10.50	267	10.27	261
28	11.16	283	10.88	276	10.64	270
29	11.53	293	11.25	286	11.02	280
30	11.91	303	11.63	295	11.39	289

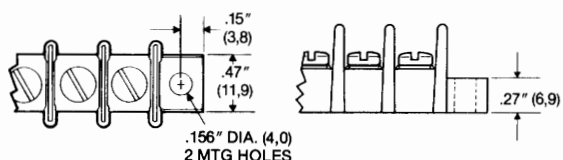
Dimensions - 71000 & 72000



1	1.20	30,5	.75	19,1	.45	11,4
2	1.58	40,1	1.13	28,7	.83	21,1
3	1.95	49,5	1.50	38,1	1.20	30,5
4	2.33	59,2	1.88	47,8	1.58	40,1
5	2.70	68,6	2.25	57,2	1.95	49,5
6	3.08	78,2	2.63	66,8	2.33	59,2
7	3.45	87,6	3.00	76,2	2.70	68,6
8	3.83	97,3	3.38	85,9	3.08	78,2
9	4.20	107	3.75	95,3	3.45	87,6
10	4.58	116	4.13	105	3.83	97,3
11	4.95	126	4.50	114	4.20	107
12	5.33	135	4.88	124	4.58	116
13	5.70	145	5.25	133	4.95	126
14	6.08	154	5.63	143	5.33	135
15	6.45	164	6.00	152	5.70	145
16	6.83	173	6.38	162	6.08	154
17	7.20	183	6.75	171	6.45	164
18	7.58	193	7.13	181	6.83	173
19	7.95	202	7.50	191	7.20	183
20	8.33	212	7.88	200	7.58	193
21	8.70	221	8.25	210	7.95	202
22	9.08	231	8.63	219	8.33	212
23	9.45	240	9.00	229	8.70	221
24	9.83	250	9.38	238	9.08	231
25	10.20	259	9.75	248	9.45	240
26	10.58	269	10.13	257	9.83	250

Tolerance on length $\pm .015"$
 Δ Overall length without mounting ends.

SOLID MOLDED MOUNTING ENDS (Option -E)



Top-side terminals

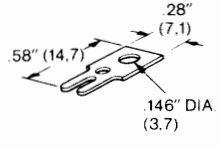
Material: .032" (0,8) brass (Style 1, cadmium plated; others solder plated)

1 Closed back

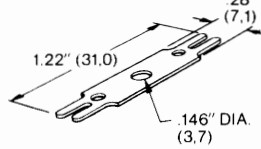


(12000 shown)

-121* One-sided solder



-122* Two-sided solder



*Option, order by dash number. To order in bulk, use this catalog number without the dash.

Bottom terminals - for 12000

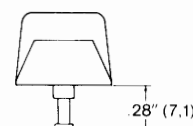
Material: Brass, bright electro-tinned

5 PC 9 PC



5 PC, .090" DIA. (2,3) X .125" L (3,2)
 9 PC, .062" DIA. (1,6) X .20" L (5,2)

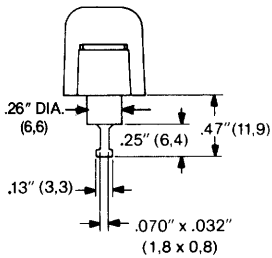
6 Solder turret



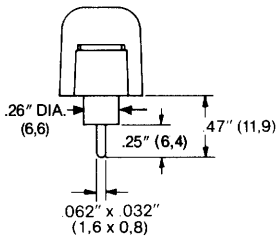
Bottom terminals - for 71000 & 72000

Material: .032" (0,8) brass (Style 9, cadmium plated;
others bright electro-tinned)

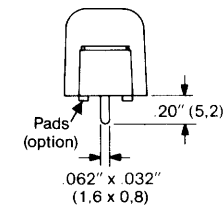
2 Insulated solder turret



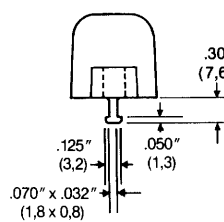
3 Insulated PC



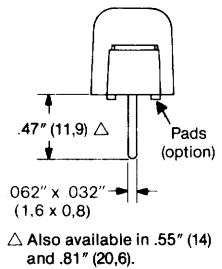
5 PC



6 Solder turret



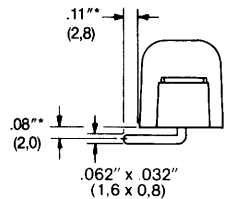
7 Wire wrap



Jumpers - for 12000

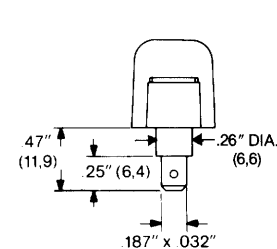
Material: .015" (0,4) brass, nickel plated; 7233 is .032" (0,8)
Options; when ordering, indicate circuit positions

8 Right angle PC

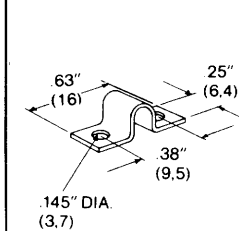


*Other lengths and bends available.

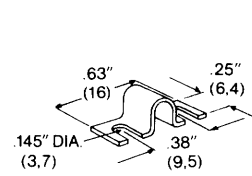
9 Insulated quick-connect



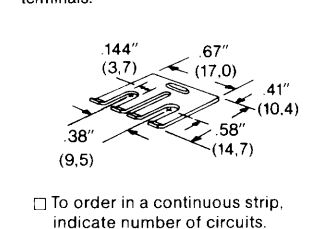
1431 Jumper, hole



1432 Jumper, slotted



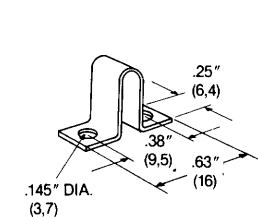
7233/ Jumper, edge on



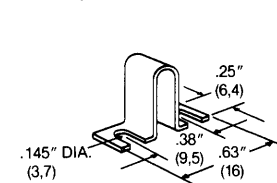
Jumpers - for 71000 & 72000

Material: .015" (0,4) brass, nickel plated; 7233 is .032" (0,8)
Options; when ordering, indicate circuit positions

7231 Jumper, hole

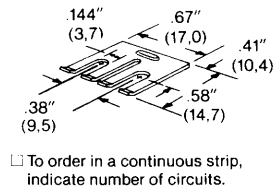


7232 Jumper, slotted



7233/ Jumper, edge on

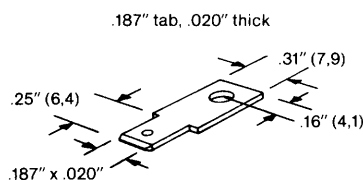
For jumping 2 to 26 adjacent terminals



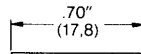
Quick-connect terminals

Material: Cadmium-plated brass
Options; when ordering, indicate circuit positions

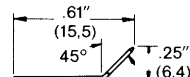
One-sided



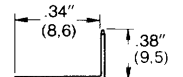
1213



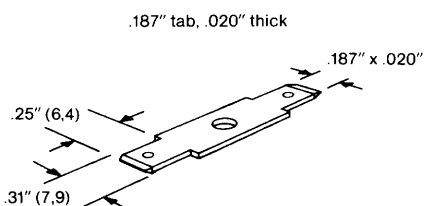
1214



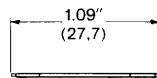
1215



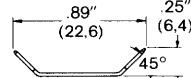
Two-sided



1210



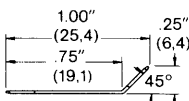
1211



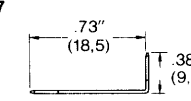
1212



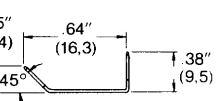
1216



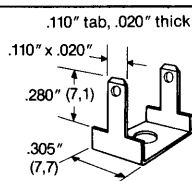
1217



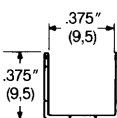
1218



Two-sided



1219



Single Row, Closed Side

20 amps
3/8" centers (9,5)
thermoplastic

75000

Specifications

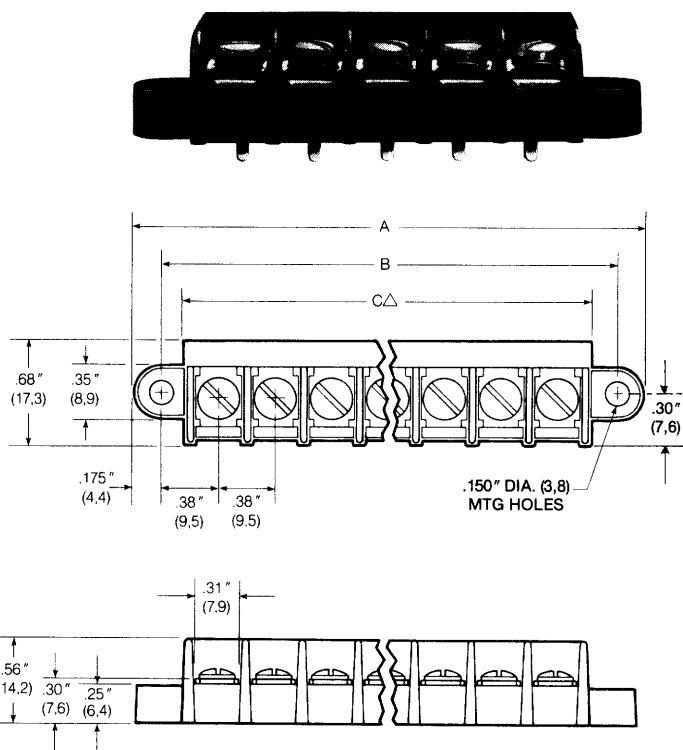
Series No.	75000
Construction	Closed side; closed back or feed thru
Terminal centers	3/8" (9,5)
Current rating, amps (UL)	20
Voltage rating, rms	
1. UL Recognized...	
Class B: Comm'l equip	250
Class C: Gen'l ind'l	150
2. CSA certified	150 @ 20 amps; 300 @ 10 amps
3. Withstand volts, rms	10500
Insulator material	Thermoplastic. UL temp index 80°C. UL flame retardant rating 94V-0. Color, black.
Width x height	.68" x .56" (17,3 x 14,2)
Wire size recommended, max AWG	14
Terminal screws (standard; also see options below)	No. 6-32 x 1/4" binding head screws. Steel, cadmium plated
Top-side terminals (The 1 becomes 3rd digit of Cat. No.; 3-digit number is dash number) ▲	1 Closed back, screws only -121 One-sided solder
Bottom terminals (3rd digit of Cat. No.) ▲	5 PC 7 Wire wrap 8 Right angle PC
No. of circuits (4th & 5th digits of Cat. No.) ▲	1 to 26
Options (add dash numbers to Cat. No.) ▲	-10A thru -11D Imprinting (on the open side) -10AT thru -11DT Imprinting (on top) -49 Nickel-plated brass binding head screws -50 Rising surface clamp screws -51 Internal lock washer screws -52 External lock washer screws -53 Phillips head screws -56 Stainless steel screws -58 Barrier supplied without screws -59 Screws supplied, unassembled -C Without mounting ends -M Metric screws -N Bottom terminal for PC, .045" x .032" (1,1 x 0,8) -P With standoff pads, .070" DIA. x .040" H (1,8 x 1,0) -V Valox insulator material, UL temp index 130°C
Top-side hardware (option; indicate circuit positions)	1213, 1214, 1215 Quick-connect terminals, .187" tab 7231 Jumper, hole 7232 Jumper, slotted 7233 Jumper, edge on

New closed-side strips offer extra protection

Vernitron's closed-side barrier terminal strips offer all the advantages of a back barrier, as listed on the next page—including additional safety due to shorts being virtually eliminated, and more compact packaging on wire wrap and PC boards.

Dimensions in parenthesis are millimeters.

Dimensions



No. of circuits	A		B		CΔ	
	in.	mm	in.	mm	in.	mm
1	1.10	27,9	.75	19,1	.48	11,4
2	1.48	37,5	1.13	28,7	.82	22,4
3	1.85	47,0	1.50	38,1	1.20	30,4
4	2.23	56,5	1.88	47,8	1.57	39,9
5	2.60	69,9	2.25	57,2	1.95	49,5
6	2.98	75,6	2.63	66,8	2.32	59,0
7	3.35	85,1	3.00	76,2	2.70	68,5
8	3.73	94,6	3.38	85,9	3.07	78,0
9	4.10	104	3.75	95,3	3.45	87,6
10	4.48	114	4.13	105	3.82	97,1
11	4.85	123	4.50	114	4.20	107
12	5.23	133	4.88	124	4.57	116
13	5.60	142	5.25	133	4.95	126
14	5.98	152	5.63	143	5.32	135
15	6.35	161	6.00	152	5.70	145
16	6.73	171	6.38	162	6.07	154
17	7.10	180	6.75	171	6.45	164
18	7.48	190	7.13	181	6.82	173
19	7.85	199	7.50	191	7.20	183
20	8.23	209	7.88	200	7.57	192
21	8.60	218	8.25	210	7.95	202
22	8.98	228	8.63	219	8.32	211
23	9.35	237	9.00	229	8.70	221
24	9.73	247	9.38	238	9.07	230
25	10.10	257	9.75	248	9.45	240
26	10.48	266	10.13	257	9.82	249

Tolerance on length $\pm .015$ "
Δ Overall length without mounting ends.

Closed side serves as a wire stop

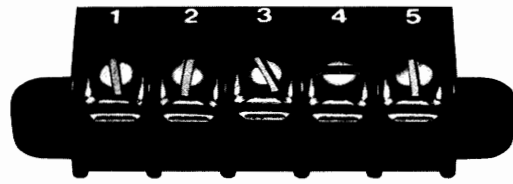
The closed side of the barrier terminal strip stops the wire in proper position, minimizing installation time. Shorts are prevented because wires can't pass through the closed side, or make contact with other wires or PC board components. Because breakdowns are avoided, time is no longer wasted on circuit testing.

Closed side saves space on PC boards

The closed side serves as an effective barrier which allows components to be positioned close to the barrier strip. This is possible because the closed side prevents shorts between terminal wires and board components. The result: a more compact PC board.

Closed side protects PCB components from damage

Screwdrivers can't slip through the closed side to cause shorts or damage to adjacent components. Thus, repair or replacement costs are virtually eliminated.



Easy identification on top or side

Imprinting can be done either on the top of the closed side of the barrier terminal strip, and/or on the open side directly on the side of the strip. Imprinting character height is .094".

Top and side imprinting are fully illustrated on page 31.

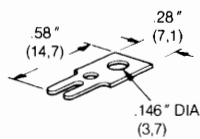
Top-side terminals

Material: .032" (0,8) brass, (Style 1, bright electro-tinned; other solder plated)

1 Closed back



-121* One-sided solder

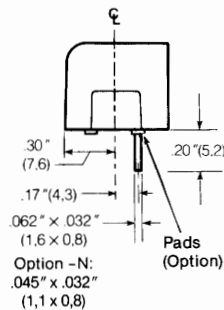


*Option; order by dash number. To order in bulk, use this catalog number without the dash.

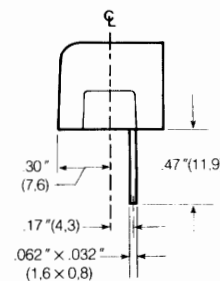
Bottom terminals

Material: .032" (0,8) brass, bright electro-tinned

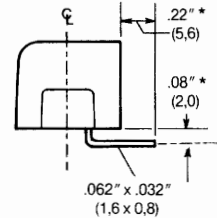
5 PC



7 Wire wrap



8 Right angle PC

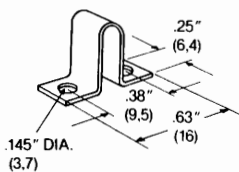


* Other lengths and bends available.

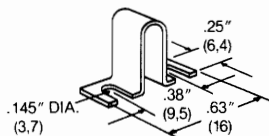
Jumpers

Material: .015" (0,4) brass, nickel plated; 7233 is .032" (0,8)
Options; when ordering, indicate circuit positions

7231 Jumper, hole

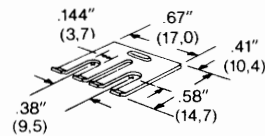


7232 Jumper, slotted



7233/ Jumper, edge on

For jumping 2 to 26 adjacent terminals



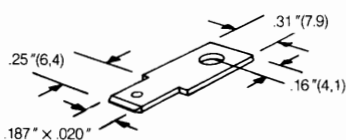
To order in a continuous strip, indicate number of circuits.

Quick-connect terminals

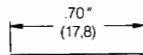
Material: Cadmium-plated brass
Options: when ordering, indicate circuit positions

One-sided

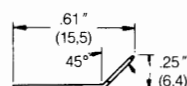
.187" tab, .020" thick



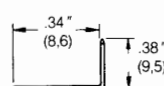
1213



1214



1215



Single Row

20 amps
7/16" centers (11,1)

13000

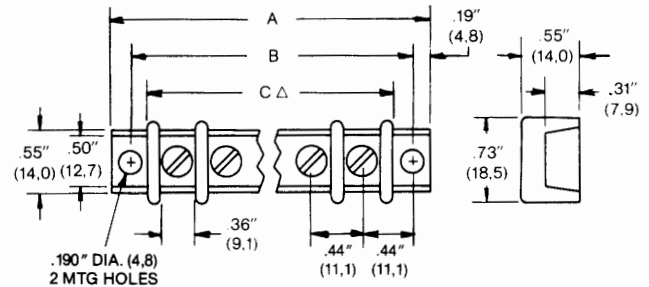
20 amps
7/16" centers (11,1)
thermoplastic

73000

Specifications

Series No.	13000	73000
Construction	Closed back or feed thru	High barrier; closed back or feed thru
Terminal centers	7/16" (11,1)	7/16" (11,1)
Current rating, amps (UL)	20	20
Voltage rating, rms 1. UL Recognized, Class... B. Comm'l equip C. Gen'l ind'l 2. CSA Certified 3. Withstand volts	250 150 300 @ 20 amps 10500 Vrms	250 300 300 @ 20 amps 10500 Vrms
Insulator material	Glass-filled phenolic. UL temp index 150°C. Color, dark green.	Thermoplastic, glass-filled. UL temp index 95°C. UL flame retardant rating 94V-0. Color, black.
Width x height	47/64" x 35/64" (18,5 x 14)	3/4" x 3/4" (19,1 x 19,1)
Wire size recommended, max AWG	14	14
Terminal screws, std (also see options)	No. 6-32 x 1/4" binding head screws. Steel, cadmium plated	
Top-side terminals (3rd digit of Cat. No.)▲	1 Closed back, screws only	
Bottom terminals (3rd digit of Cat. No.)▲	0 Insulated screw 2 Insulated turret 2A Insulated turret with No. 8-32 screw 3 Insulated PC 4 Insulated taper pin, No. 53 5 PC, .062" DIA. (1,6) 6 Solder turret 9 PC, .090" DIA. (2,3)	2 Insulated solder turret 3 Insulated PC 5 PC 6 Solder turret 7 Wire wrap 8 Right angle PC 9 Insulated quick-connect
No. of circuits (4th & 5th digits of Cat. No.)▲	1 to 26	1 to 30
Options (add dash numbers to Cat. No.)▲	-10A thru -11D Imprinting one side -12A thru -13B Imprinting, both sides -49 Nickel-plated brass binding head screws -50 Rising surface clamp screws -51 Internal lock washer screws -52 External lock washer screws -53 Phillips head screws -56 Stainless steel screws -58 Barrier supplied without screws -59 Screws supplied, unassembled -A Oversize screws (73000 only) -C Without mounting ends -M Metric screws -P With standoff pads (73000 only), .070" x .078" x .040" H (1,8 x 2,0 x 1,0) -V Valox insulator material (73000 only), UL temp index 130°C	
Top-side hardware (options; indicate circuit positions)	1310 thru 1318 Quick-connect terminals, .250" tab 1831 Jumper, hole 1832 Jumper, slotted 7833 Jumper, edge on	7310 thru 7318 Quick-connect terminals, .250" tab 7331 Jumper, hole 7332 Jumper, slotted 7833 Jumper, edge on

Dimensions -13000

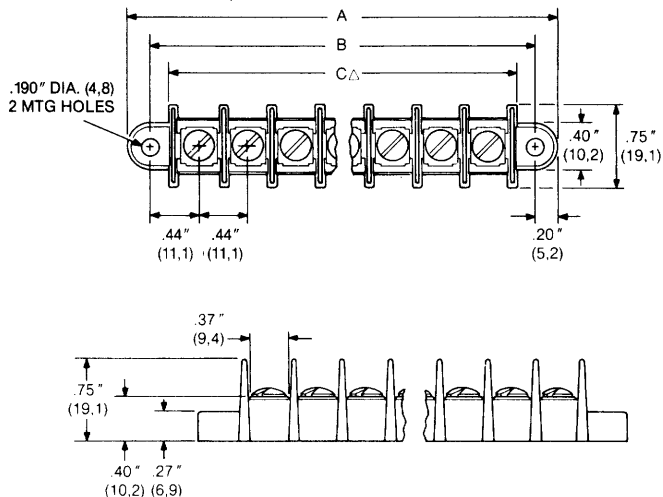
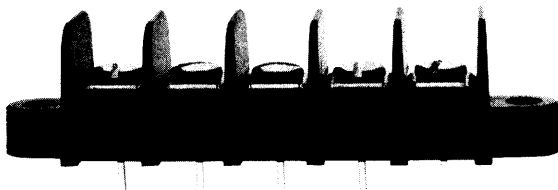


No. of circuits	A		B		C△	
	in.	mm	in.	mm	in.	mm
1	1.25	31,8	.88	22,4	.53	13,5
2	1.69	42,9	1.31	33,3	.97	24,6
3	2.13	54,1	1.75	44,5	1.41	35,8
4	2.56	65,0	2.19	55,6	1.84	46,7
5	3.00	76,2	2.63	66,8	2.28	57,9
6	3.44	87,4	3.06	77,7	2.72	69,1
7	3.88	98,6	3.50	88,9	3.16	80,3
8	4.31	109	3.94	100	3.59	91,2
9	4.75	121	4.38	111	4.03	102
10	5.19	132	4.81	122	4.47	114
11	5.63	143	5.25	133	4.91	125
12	6.06	154	5.69	145	5.34	136
13	6.50	165	6.13	156	5.78	147
14	6.94	176	6.56	167	6.22	158
15	7.38	187	7.00	178	6.66	169
16	7.81	198	7.44	189	7.09	180
17	8.25	210	7.88	200	7.53	191
18	8.69	221	8.31	211	7.97	202
19	9.13	232	8.75	222	8.41	214
20	9.56	243	9.19	233	8.84	225
21	10.00	254	9.63	245	9.28	236
22	10.44	265	10.06	256	9.72	247
23	10.88	276	10.50	267	10.16	258
24	11.31	287	10.94	278	10.59	269
25	11.75	298	11.38	289	11.03	280
26	12.19	310	11.81	300	11.47	291

Tolerance on length ± .015"
△ Overall length without mounting ends.

Dimensions in parenthesis are millimeters.

Dimensions - 73000



No. of circuits	A		B		CΔ	
	in.	mm	in.	mm	in.	mm
1	1.28	32,4	.88	22,2	.53	13,4
2	1.71	43,5	1.31	33,4	.97	24,6
3	2.15	54,6	1.75	44,5	1.40	35,7
4	2.59	65,7	2.19	55,6	1.84	46,8
5	3.03	76,8	2.63	66,7	2.28	57,9
6	3.46	88,0	3.06	77,8	2.72	69,0
7	3.90	99,1	3.50	88,9	3.15	80,1
8	4.34	110	3.94	100	3.59	91,2
9	4.78	121	4.38	111	4.03	102
10	5.21	132	4.81	122	4.47	113
11	5.65	144	5.25	133	4.90	125
12	6.09	155	5.69	144	5.34	136
13	6.53	166	6.13	156	5.78	147
14	6.96	177	6.56	167	6.22	158
15	7.40	188	7.00	178	6.65	169
16	7.84	199	7.44	189	7.09	180
17	8.28	210	7.88	200	7.53	191
18	8.71	221	8.31	211	7.97	202
19	9.15	232	8.75	222	8.40	213
20	9.59	244	9.19	233	8.84	225
21	10.03	255	9.63	244	9.28	236
22	10.46	266	10.06	256	9.72	247
23	10.90	277	10.50	267	10.15	258
24	11.34	288	10.94	278	10.59	269
25	11.78	299	11.38	289	11.03	280
26	12.22	310	11.81	300	11.47	291
27	12.65	321	12.25	311	11.90	302
28	13.09	332	12.69	322	12.34	313
29	13.53	344	13.13	333	12.78	325
30	13.96	355	13.56	345	13.22	336

Tolerance on length $\pm .015"$
 Δ Overall length without mounting ends.

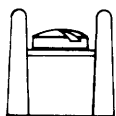
Top-side terminal

Material: .032" (0,8) brass, cadmium plated
 (73000 bright electro-tinned)

Bottom terminals - for 13000

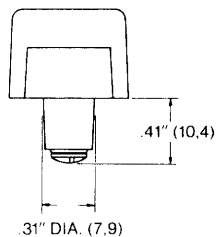
Material: brass (Style 0, cadmium plated; others bright electro-tinned)

1 Closed back

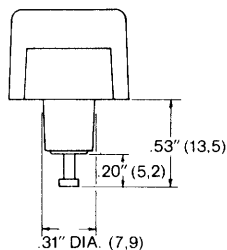


(13000 shown)

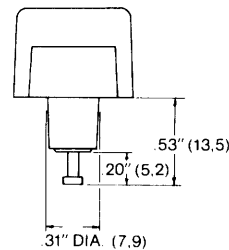
0 Insulated screw



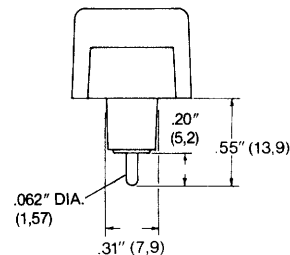
2 Insulated turret



2A Insulated turret with 8-32 screw



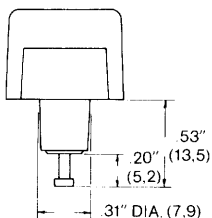
3 Insulated PC



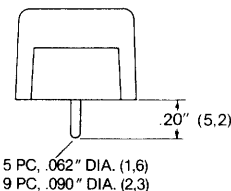
Bottom terminals - for 73000

Material: .032" (0,8) brass, bright electro-tinned

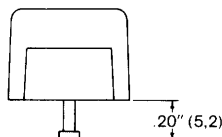
4 Insulated taper pin, No. 53



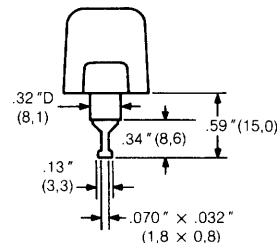
5 PC



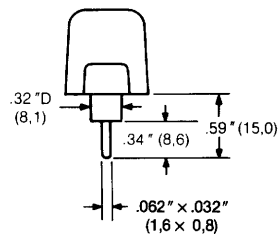
6 Solder turret



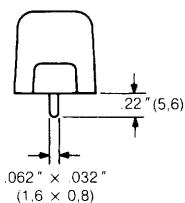
2 Insulated solder turret



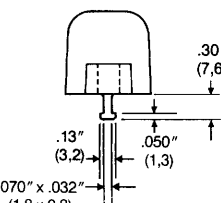
3 Insulated PC



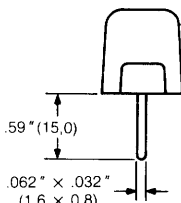
5 PC



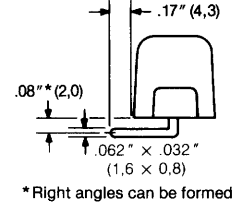
6 Solder turret



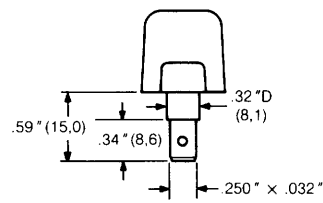
7 Wire wrap



8 Right angle PC



9 Insulated quick-connect



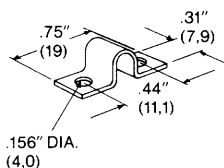
13000, 73000 continued

13000, 73000 continued

Jumpers

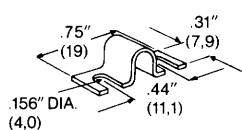
Material: .015" (0,4) brass, nickel plated; 7833 is .032" (0,8)
Option; when ordering, indicate circuit positions

1831 Jumper, hole



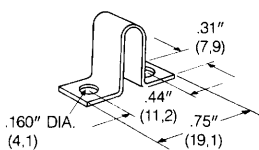
(for 13000 only)

1832 Jumper, slotted



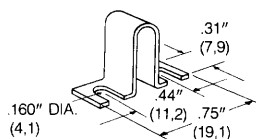
(for 13000 only)

7331 Jumper, hole



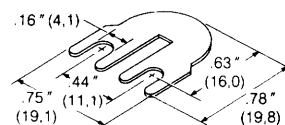
(for 73000 only)

7332 Jumper, slotted



(for 73000 only)

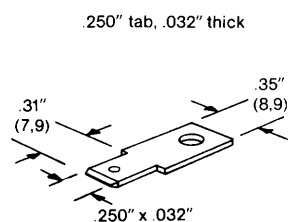
7833 Jumper, edge on
For jumping adjacent terminals



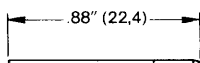
Quick-connect terminals – for 13000

Material: Cadmium-plated brass
Options; when ordering, indicate circuit positions

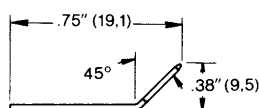
One-sided



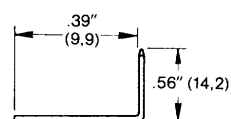
1313



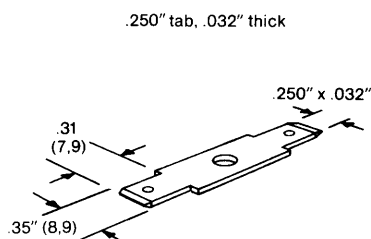
1314



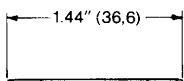
1315



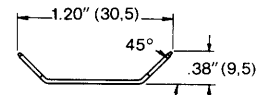
Two-sided



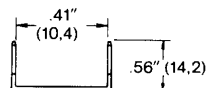
1310



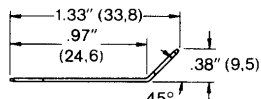
1311



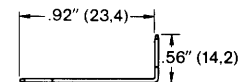
1312



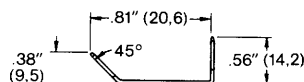
1316



1317



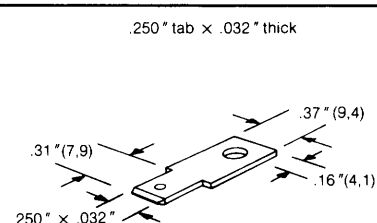
1318



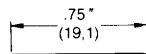
Quick-connect terminals – for 73000

Material: Brass, bright electro-tinned
Options; when ordering, indicate circuit positions

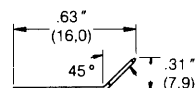
One-sided



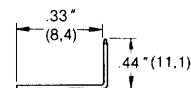
7313



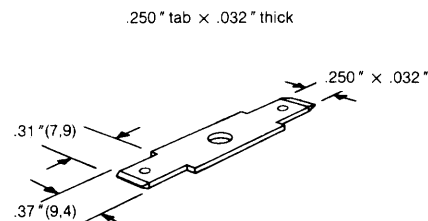
7314



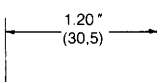
7315



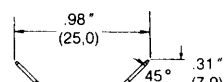
Two-sided



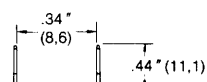
7310



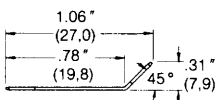
7311



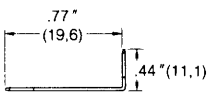
7312



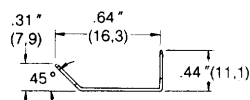
7316



7317



7318



Double Row

10 amps
1/4" centers (6,4)
10000

Specifications

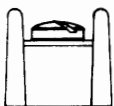
Series No.	10000
Construction	Open back and feed thru
Terminal centers	1/4" (6,4)
Current rating, amps (UL)	10
Voltage rating, rms	
1. UL Recognized...	
Class B: Comm'l equip	250
Class C: Gen'l ind'l	150
2. CSA Certified	150 @ 5 amps
3. Withstand volts, rms	3000
Insulator material	General purpose phenolic. UL temp index 150°C. Color, black. (Other materials available.)
Width x height	5/8" x 5/16" (16 x 7,9)
Wire size recommended, max AWG	22
Terminal screws, (standard; also see options below)	No. 2-56 x 3/16" binding head screws. Brass, nickel plated
Top-side terminals (3rd digit of Cat. No.)▲	0 Screws only 1 One-sided solder 2 Two-sided solder
Bottom terminal (3rd digit of Cat. No.)▲	3 Solder 4 PC, short
No. of circuits (4th & 5th digits of Cat. No.)▲	1 to 20
Options (add dash numbers to Cat. No.)▲	-10A thru -11D Imprinting, one side -12A thru -13B Imprinting, both sides -56 Stainless steel screws -58 Barrier supplied without screws -59 Screws supplied, unassembled -60 One row screws assembled, one row screws bulk -61 One row screws assembled, one row screws not supplied -66 Marker strip bonded to barrier -C Without mounting ends -M Metric screws
Top-side hardware (options; indicate circuit positions)	1031 Jumper, hole 1032 Jumper, slotted

Dimensions in parenthesis are millimeters.

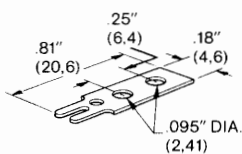
Top-side terminals

Material: .032" (0,8) brass (Style 0, nickel plated; Styles 1 and 2 solder plated)

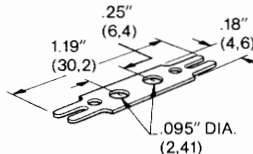
0 Screws only



1* One-sided solder

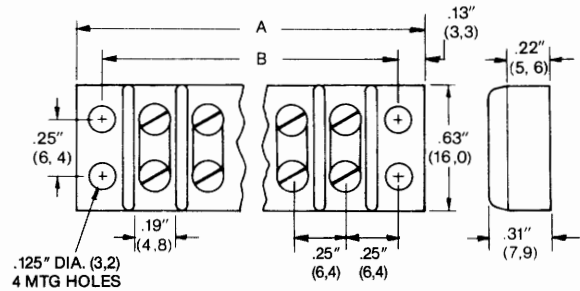


2* Two-sided solder



*To order in bulk, use Cat. No. 101 (one-sided) or 102 (two-sided).

Dimensions



No. of circuits	A in.	A mm	B in.	B mm	No. of circuits	A in.	A mm	B in.	B mm
1	.75	19,1	.50	12,7	11	3.25	82,6	3.00	76,2
2	1.00	25,4	.75	19,1	12	3.50	88,9	3.25	82,6
3	1.25	31,8	1.00	25,4	13	3.75	95,3	3.50	88,9
4	1.50	38,1	1.25	31,8	14	4.00	102	3.75	95,3
5	1.75	44,5	1.50	38,1	15	4.25	108	4.00	102
6	2.00	50,8	1.75	44,5	16	4.50	114	4.25	108
7	2.25	57,2	2.00	50,8	17	4.75	121	4.50	114
8	2.50	63,5	2.25	57,2	18	5.00	127	4.75	121
9	2.75	69,9	2.50	63,5	19	5.25	133	5.00	127
10	3.00	76,2	2.75	69,9	20	5.50	140	5.25	133

Tolerance on length ±.015"

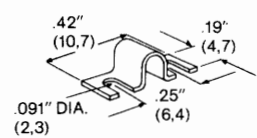
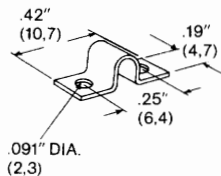
Jumpers

Material: .015" (0,4) brass, nickel plated

Options; when ordering, indicate circuit positions

1031 Jumper, hole

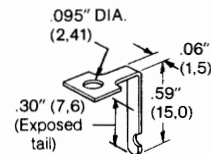
1032 Jumper, slotted



Bottom terminals

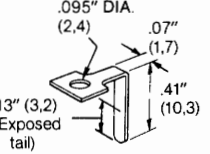
Material: .032" (0,8) brass, solder plated

3 Solder



To order in bulk use Cat. No. 103

4 PC, short



To order in bulk use Cat. No. 104

▲ HOW TO ORDER: SEE PAGE 7.

Double Row

15 amps
3/8" centers (9,5)
14000

20 amps
3/8" centers (9,5)
thermoplastic
76000

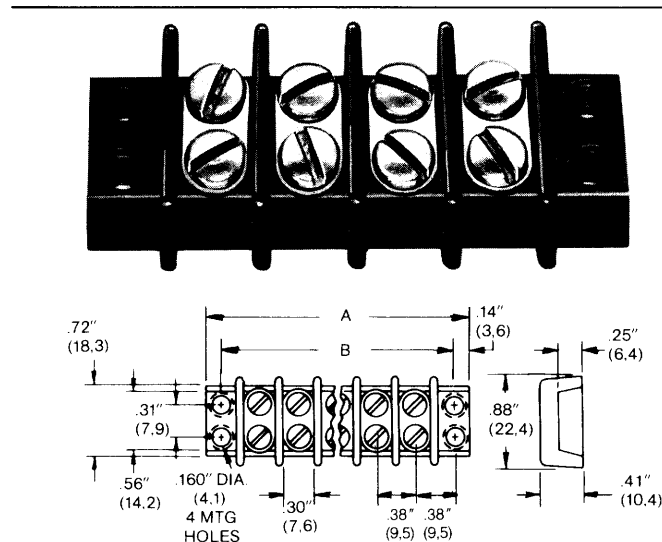
20 amps
3/8" centers (9,5)
thermoplastic
77000

Specifications

Series No.	14000	76000	77000
Construction	Open back & feed thru	High barrier; closed back or feed thru	Closed back or feed thru
Terminal centers	3/8" (9,5)	3/8" (9,5)	3/8" (9,5)
Current rating, amps (UL)	15	20	20
Voltage rating, rms 1. UL Recognized. . . Class B: Comm'l equip Class C: Gen'l ind'l 2. CSA Certified 3. Withstand volts, rms	250 150 300 @ 15 amps 8500	250 150 300 @ 20 amps 10500	250 150 150 @ 20 amps 7500
Insulator material	General purpose phenolic. UL temp index 150°C. Color, black. (Other materials available.)	Thermoplastic, glass filled. UL temp index 95°C. UL flame retardant rating 94V-0. Color, black.	
Width x height	7/8" x 13/32" (22,4 x 10,4)	7/8" x 5/8" (22 x 16)	7/8" x 7/16" (22 x 11,1)
Wire size recommended, max AWG	16	14	14
Terminal screws (standard; also see options below)	No. 5-40 x 1/4" binding head screws. Steel, cadmium plated	No. 6-32 x 1/4" binding head screws. Steel, cadmium plated.	
Top-side terminals (3rd digit of Cat. No.)▲	0 Screws only 1 One-sided solder 2 Two-sided solder		
Bottom terminals (3rd digit of Cat. No.)▲	3 Solder, short 4 PC, short 5 Solder, long 6 PC, long 7 Wire wrap 8 Z terminal, over-the-side PC		
No. of circuits (4th & 5th digits of Cat. No.)▲	1 to 30	2 to 30	
Options (add dash numbers to Cat. No.)▲	-10A thru -11D Imprinting, one side -12A thru -13B Imprinting, both sides -49 Brass, nickel-plated binding head screws -50 Rising surface clamp screws -51 Internal lock washer screws -52 External lock washer screws -53 Phillips head screws -56 Stainless steel screws -58 Barrier supplied without screws -59 Screws supplied, unassembled -60 One row screws assembled, one row screws bulk -61 One row screws assembled, one row screws not supplied -66 Marker strip bonded to barrier -C Without mounting ends -M Metric screws (for 76000 & 77000 only) -R Rivet construction (for 14000 only) -V Valox insulator material (for 76000 & 77000 only), UL temp index 130°C		
Top-side hardware (options; indicate circuit positions)	1410 thru 1418 Quick-connect terminals, .187" tab 1410A thru 1418A Quick-connect terminals, .205" tab 1430 Straddle plate (for 14000 only) 1431 Jumper, hole (for 14000 & 77000 only) 1432 Jumper, slotted (for 14000 & 77000 only) 7233 Jumper, edge on 7631 Jumper, hole (for 76000 only) 7632 Jumper, slotted (for 76000 only)		

Dimensions in parenthesis are millimeters.

Dimensions - 14000



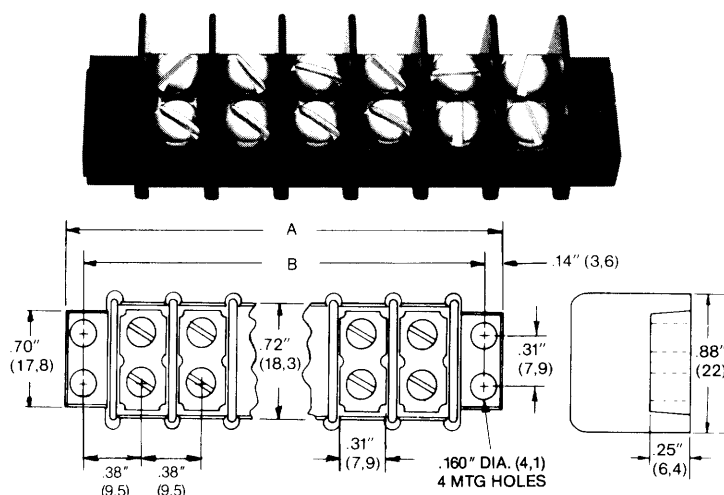
No. of
circuits

in. A mm

in. B mm

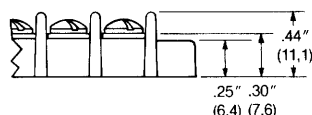
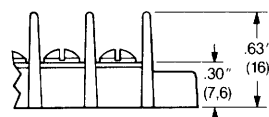
1	1.03	26.2	.75	19.1
2	1.41	35.8	1.13	28.7
3	1.78	45.2	1.50	38.1
4	2.16	54.9	1.88	47.8
5	2.53	64.3	2.25	57.2
6	2.91	73.9	2.63	66.8
7	3.28	83.3	3.00	76.2
8	3.66	93.0	3.38	85.9
9	4.03	102	3.75	95.3
10	4.41	112	4.13	105
11	4.78	121	4.50	114
12	5.16	131	4.88	124
13	5.53	140	5.25	133
14	5.91	150	5.63	143
15	6.28	160	6.00	152
16	6.66	169	6.38	162
17	7.03	179	6.75	171
18	7.41	188	7.13	181
19	7.78	198	7.50	191
20	8.16	207	7.88	200
21	8.53	217	8.25	210
22	8.91	226	8.63	219
23	9.28	236	9.00	229
24	9.66	245	9.38	238
25	10.03	255	9.75	248
26	10.41	264	10.13	257
27	10.78	274	10.50	267
28	11.16	283	10.88	276
29	11.53	293	11.25	286
30	11.91	303	11.63	295

Dimensions - 76000 & 77000



76000

77000



2	1.41	35.7	1.13	28.6
3	1.78	45.2	1.50	38.1
4	2.16	54.8	1.88	47.6
5	2.53	64.3	2.25	57.2
6	2.91	73.8	2.63	66.7
7	3.28	83.3	3.00	76.2
8	3.66	92.9	3.38	85.7
9	4.03	102	3.75	95.3
10	4.41	112	4.13	105
11	4.78	121	4.50	114
12	5.16	131	4.88	124
13	5.53	140	5.25	133
14	5.91	150	5.63	143
15	6.28	160	6.00	152
16	6.66	169	6.38	162
17	7.03	178	6.75	171
18	7.41	188	7.13	181
19	7.78	198	7.50	191
20	8.16	207	7.88	200
21	8.53	217	8.25	210
22	8.91	226	8.63	219
23	9.28	336	9.00	229
24	9.66	245	9.38	238
25	10.03	255	9.75	248
26	10.41	264	10.13	257
27	10.78	274	10.50	267
28	11.16	283	10.88	276
29	11.53	293	11.25	286
30	11.91	302	11.63	295

Tolerance on length $\pm .015"$

Get 20 amps in the same space as 15

These 20-ampere strips are designed to take the same panel space as any double-row 15-ampere barrier terminal strip. They are 7/8" wide and have screw terminals 3/8" on centers—just like the following strips they are designed to replace:

Cinch: 140; 164; 240

Curtis: 1500

ETC/Cannon: 27000; 37000; 57000; 67000

General Electric: CR151-Type D1 and D7

Kulka: 600; 600A; 620A; 670; 670A; 800

Marathon: Series 100

Vernitron (Beau): 14000; 15000; 16000; 17000

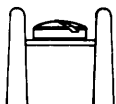
14000, 76000, 77000 continued

14000, 76000, 77000 continued

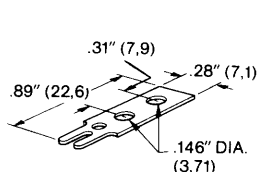
Top-side terminals - for 14000

Material: .032" (0,8) brass (Style 0, nickel plated;
Styles 1 and 2 solder plated)

0 Screws only

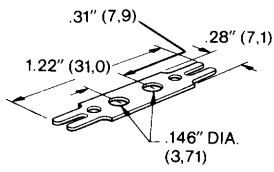


1 One-sided solder



To order in bulk,
use Cat. No. 141

2 Two-sided solder

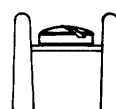


To order in bulk,
use Cat. No. 142

Top-side terminals - for 76000 and 77000

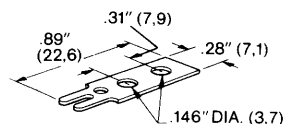
Material: .032" (0,8) brass (Style 0, nickel plated;
Styles 1 and 2 solder plated)

0 Screws only



(77000 shown)

1 One-sided solder

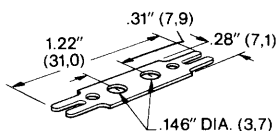


To order in bulk,
use Cat. No. 141

Bottom terminals - for 14000

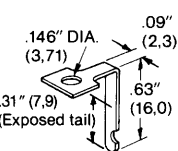
Material: .032" (0,8) brass (Styles 3 and 5 solder plated;
4, 6 and 8 bright electro-tinned; 7 bright electro-tinned or nickel)

2 Two-sided solder



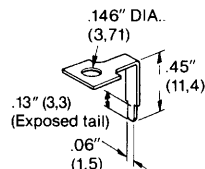
To order in bulk,
use Cat. No. 142

3 Solder, short



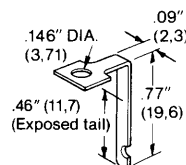
To order in bulk,
use Cat. No. 143

4 PC, short



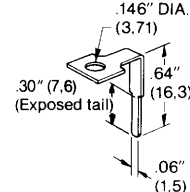
To order in bulk,
use Cat. No. 144

5 Solder, long



To order in bulk,
use Cat. No. 145

6 PC, long

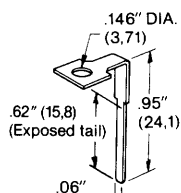


To order in bulk,
use Cat. No. 146

Bottom terminals - for 76000 & 77000

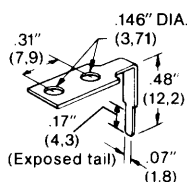
Material: .032" (0,8) brass (Styles 3 and 5 solder plated;
4, 6 and 8 bright electro-tinned; 7 bright electro-tinned or nickel)

7 Wire wrap



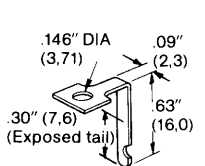
To order in bulk,
use Cat. No. 147

8 Z-terminal, over-the-side PC



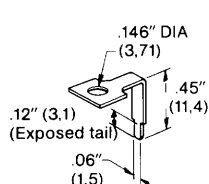
To order in bulk,
use Cat. No. 148

3 Solder, short



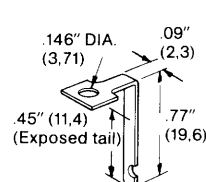
To order in bulk,
use Cat. No. 143

4 PC, short



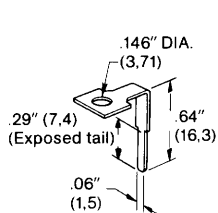
To order in bulk,
use Cat. No. 144

5 Solder, long



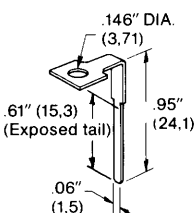
To order in bulk,
use Cat. No. 145

6 PC, long



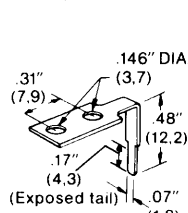
To order in bulk,
use Cat. No. 146

7 Wire wrap



To order in bulk,
use Cat. No. 147

8 Z-terminal, over-the-side PC

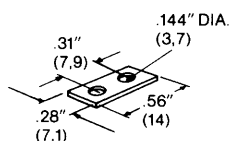


To order in bulk,
use Cat. No. 148

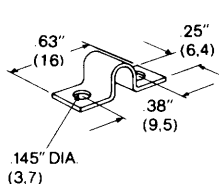
Jumpers/Straddle plate - for 14000

Material: Jumpers .015" (0,4) brass, nickel plated; 7233 is .032" (0,8). Straddle plates .032" (0,8) stainless steel
Options: when ordering, indicate circuit positions.

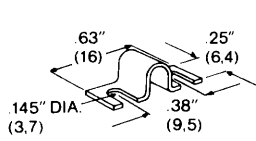
1430 Straddle plate



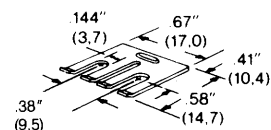
1431 Jumper, hole



1432 Jumper, slotted



7233/ ☐ Jumper, edge on
For jumping 2 to 30
adjacent terminals

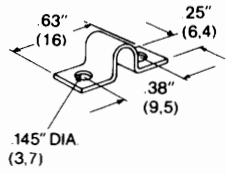


☐ To order in a continuous strip,
indicate number of circuits.

Jumpers - for 76000 & 77000

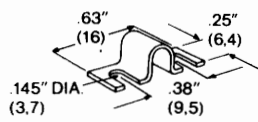
Material: .015" (0,4) brass, nickel plated; 7233 is .032" (0,8)
Options; when ordering, indicate circuit positions

1431 Jumper, hole



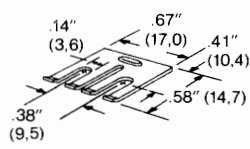
(77000 only)

1432 Jumper, slotted



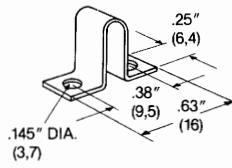
(77000 only)

7233/□ Jumper, edge on
for jumping 2 to 30
adjacent terminals



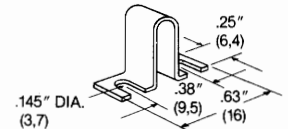
□ To order in a continuous strip,
indicate number of circuits.

7631 Jumper, hole



(76000 only)

7632 Jumper, slotted



(76000 only)

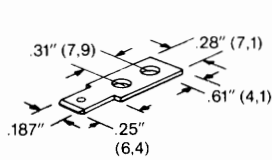
Quick-connect terminals

Material: Cadmium-plated brass
Options; when ordering, indicate circuit positions

One-sided

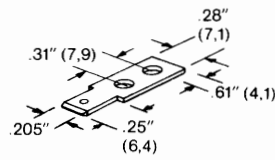
Series 1400

.187" tab, .020" thick

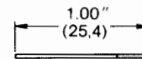


Series 1400A

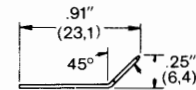
.205" tab, .032" thick



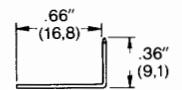
1413 and 1413A



1414 and 1414A



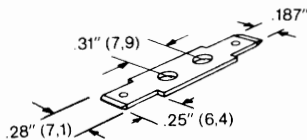
1415 and 1415A



Two-sided

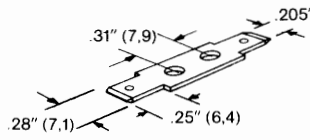
Series 1400

.187" tab, .020" thick

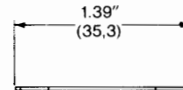


Series 1400A

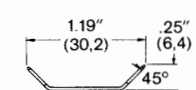
.205" tab, .032" thick



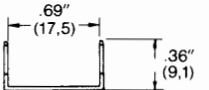
1410 and 1410A



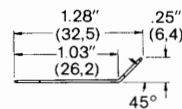
1411 and 1411A



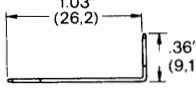
1412 and 1412A



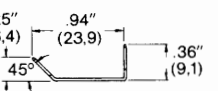
1416 and 1416A



1417 and 1417A



1418 and 1418A



Double Row

20 amps
7/16" centers (11,1)

18000

20 amps
7/16" centers (11,1)

19000

20 amps
7/16" centers (11,1)
thermoplastic

78000

Specifications

Series No.	18000	19000	78000
Construction	Open back and feed thru	Closed back or feed thru	Closed back or feed thru
Terminal centers	7/16" (11,1)	7/16" (11,1)	7/16" (11,1)
Current rating, amps (UL)	20	20	20
Voltage rating, rms			
1. UL Recognized...			
Class B: Comm'l equip	250	250	250
Class C: Gen'l ind'l	300	300	300
2. CSA Certified	300 @ 20 amps	300 @ 20 amps	300 @ 20 amps
3. Withstand volts, rms	7500	8500	7500
Insulator material	General purpose phenolic. UL temp index, 150°C. Color, black. (Other materials available)	General purpose phenolic. UL temp index, 150°C Color, black. (Other materials available)	Thermoplastic, glass-filled. UL temp index, 95°C. UL flame retardant rating 94V-0. Color, black.
Width x height	1 1/8" x 1/2" (28,7 x 12,7)	1 1/8" x 35/64" (28,7 x 13,9)	1 1/8" x 35/64" (28,7 x 13,9)
Wire size recommended, max AWG	14	14	14
Terminal screws (standard; also see options below)	No. 6-32 x 1/4" binding head screws. Steel, cadmium plated	No. 6-32 x 1/4" binding head screws. Steel, cadmium plated	No. 6-32 x 1/4" binding head screws. Steel, cadmium plated
Top-side terminals (3rd digit of Cat. No.)▲	0 Screws only 1 One-sided solder 2 Two-sided solder		0 Screws only
Bottom terminals (3rd digit of Cat. No.)▲	3 Solder, short 5 Solder, long 6 PC, long 7 Wire wrap		
No. of circuits (4th & 5th digits of Cat. No.)▲	1 to 30		
Options (add dash numbers to Cat. No.)▲	-10A thru -11D Imprinting, one side -12A thru -13B Imprinting, both sides -49 Nickel-plated brass binding head screws -50 Rising surface clamp screws -51 Internal lock washer screws -52 External lock washer screws -53 Phillips head screws -56 Stainless steel screws -58 Barrier supplied without screws -59 Screws supplied, unassembled -60 One row screws assembled, one row screws bulk -61 One row screws assembled, one row screws not supplied -66 Marker strip bonded to barrier (for 18000 only) -C Without mounting ends -M Metric screws -R Rivet construction (for 18000 only) -V Valox insulator material, UL temp index 130°C (for 78000 only)		
Top-side hardware (options; indicate circuit positions)	1810 thru 1818 Quick-connect terminals, 250" tab 1830 Straddle plate 1831 Jumper, hole 1832 Jumper, slotted 7833 Jumper, edge on		

Dimensions in parenthesis are millimeters.

Interchangeable with phenolic strips

Series 78000 has been designed to be interchangeable with several series of phenolic strips, allowing users to gain the advantages of high resiliency, non-pull-out screw terminals, etc. It will occupy the same panel space as the following strips:

Cinch: 141, 541
ETC/Cannon: 28000, 38000
General Electric: CR151 - Type D2
Kulka: 601, 671
Marathon: 200
Vernitron (Beau): 18000, 19000

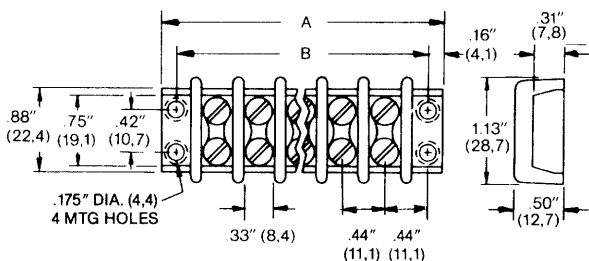
Now a closed back strip with screw terminals that won't pull out

The 78000 series eliminates the problem of insecure terminal retention commonly found in closed back double-row barrier terminal strips. The eyelets and drive pins have been eliminated. Instead, terminal plates are ultrasonically welded (imbedded) into the barrier strip, making it virtually impossible to pull them out. Another result: it's a more rugged strip, and has a greater creep path.

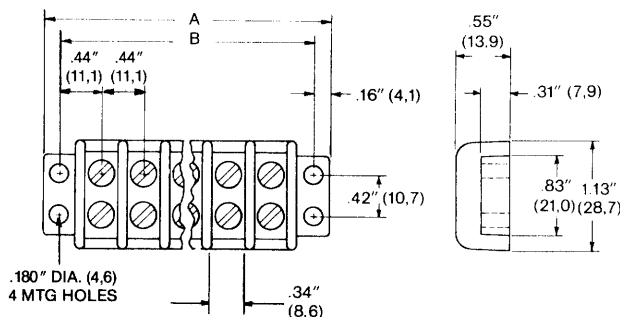
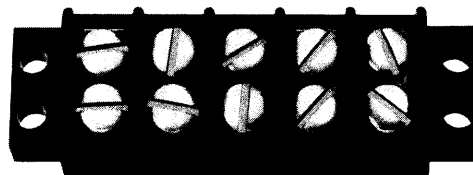
Other features of thermoplastic types — see page 2-5.

Dimensions

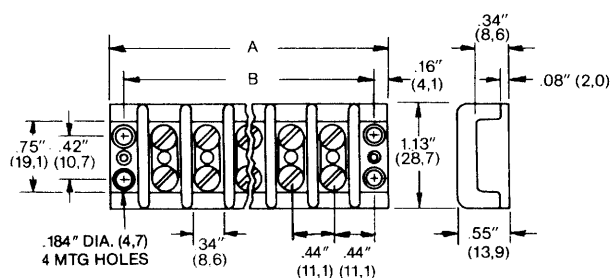
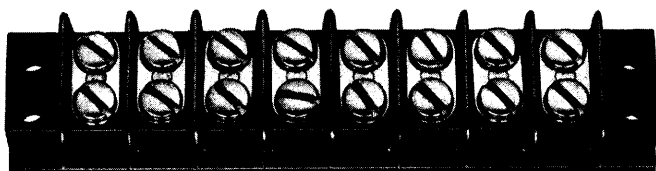
18000



78000



19000



No. of circuits	A		B	
	in.	mm.	in.	mm
1	1.19	30.2	.88	22.4
2	1.63	41.4	1.31	33.3
3	2.06	52.3	1.75	44.5
4	2.50	63.5	2.19	55.6
5	2.94	74.7	2.63	66.8
6	3.38	85.9	3.06	77.7
7	3.81	96.8	3.50	88.9
8	4.25	108	3.94	100
9	4.69	119	4.38	111
10	5.13	130	4.81	122
11	5.56	141	5.25	133
12	6.00	152	5.69	145
13	6.44	164	6.13	156
14	6.88	175	6.56	167
15	7.31	186	7.00	178
16	7.75	197	7.44	189
17	8.19	208	7.88	200
18	8.63	219	8.31	211
19	9.06	230	8.75	222
20	9.50	241	9.19	233
21	9.94	252	9.63	245
22	10.38	264	10.06	256
23	10.81	275	10.50	267
24	11.25	286	10.94	278
25	11.69	297	11.38	289
26	12.13	308	11.81	300
27	12.56	319	12.25	311
28	13.00	330	12.69	322
29	13.44	341	13.13	334
30	13.88	353	13.56	344

Tolerance on length $\pm .015$ "

18000, 19000, 78000 continued

18000, 19000, 78000 continued

Top-side terminals

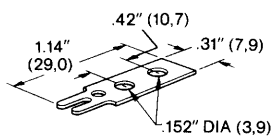
Material: .032" (0,8) brass (Style 0, nickel plated;
Styles 1 and 2 solder plated)

0 Screws only



(18000 shown)

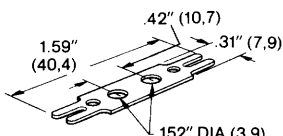
1 One-sided solder



(For 18000 & 19000 only)

To order in bulk,
use Cat. No. 181

2 Two-sided solder



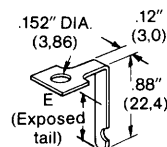
(For 18000 & 19000 only)

To order in bulk,
use Cat. No. 182

Bottom terminals

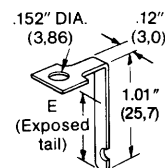
Material: .032" (0,8) brass (Styles 3 and 5 solder plated; 6 bright electro-tinned;
7 bright electro-tinned or nickel)

3 Solder, short



To order in bulk,
use Cat. No. 183

5 Solder, long

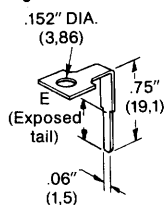


To order in bulk,
use Cat. No. 185

Jumpers/Straddle plate

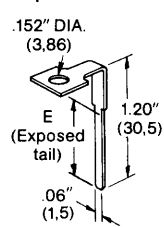
Material: As noted under drawings.
Options; when ordering, indicate circuit positions

6 PC, long



To order in bulk,
use Cat. No. 186

7 Wire wrap



To order in bulk,
use Cat. No. 187

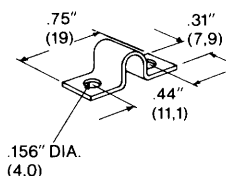
Series No.

Terminal style

Dimension E in. mm

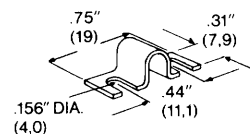
18000 and 78000	3	.51	13,0
	5	.63	16,0
	6	.39	9,9
	7	.83	21,1
19000	3	.48	12,2
	5	.60	15,2
	6	.36	9,1
	7	.80	20,3

1831 Jumper, hole



Material: .015" (0,4) brass, nickel plated

1832 Jumper, slotted

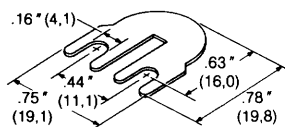


Material: .015" (0,4) brass, nickel plated

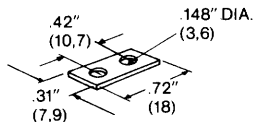
7833 Jumper, edge on

For jumping adjacent terminals

1830 Straddle plate



Material: .032" (0,8) brass, nickel plated



Material: .032" (0,8) stainless steel

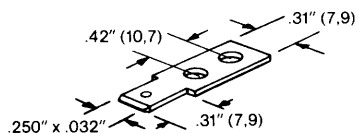
Quick-connect terminals

Material: Cadmium-plated brass

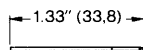
Options; when ordering, indicate circuit positions

One-sided

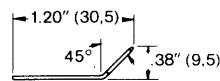
.250" tab, .032" thick



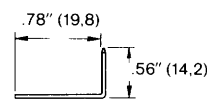
1813



1814

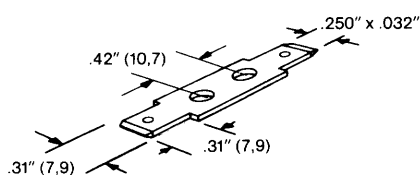


1815

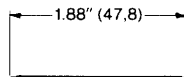


Two-sided

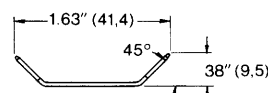
.250" tab, .032" thick



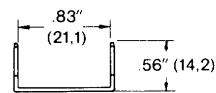
1810



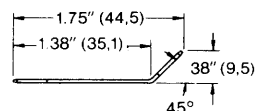
1811



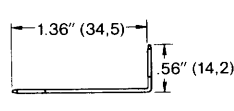
1812



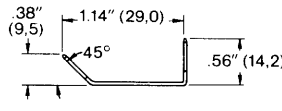
1816



1817



1818



Double Row

30 amps
9/16" centers (14,2)

21000

30 amps
9/16" centers (14,2)

22000

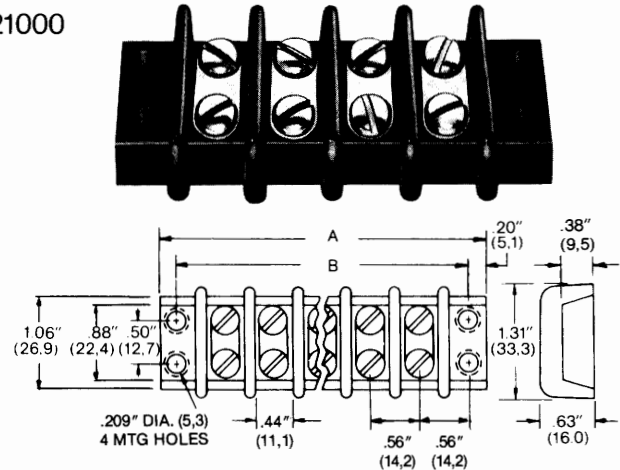
Specifications

Series No.	21000	22000
Construction	Open back and feed thru	Closed back or feed thru
Terminal centers	9/16" (14,2)	9/16" (14,2)
Current rating, amps (UL)	30	30
Voltage rating, rms		
1. UL Recognized...		
Class B:		
Comm'l equip	600	600
Class C:		
Gen'l ind'l	600	600
2. CSA Certified	300 @ 30 amps	300 @ 30 amps
3. Withstand volts, rms	10500	9000
Insulator material	General purpose phenolic. UL temp index 150°C. Color, black. (Other materials available)	General purpose phenolic. UL temp index 150°C. Color black. (Other materials available)
Width x height	1 5/16" x 5/8" (33,3 x 16)	1 5/16" x 21/32" (33,3 x 16,8)
Wire size recommended, max AWG	12	12
Terminal screws (standard; also see options below)	No. 8-32 x 5/16" binding head screws. Steel, cadmium plated	No. 8-32 x 5/16" binding head screws. Steel, cadmium plated
Top-side terminals (3rd digit of Cat. No.)▲	0 Screws only 1 One-sided solder 2 Two-sided solder	0 Screws only 1 One-sided solder 2 Two-sided solder
Bottom terminals (3rd digit of Cat. No.)▲	3 Solder, short 5 Solder, long	3 Solder, short 5 Solder, long
No. of circuits (4th & 5th digits of Cat. No.)▲	1 to 25	1 to 26
Options (add dash numbers to Cat. No.)▲	-10A thru -11D Imprinting, one side -12A thru -13B Imprinting, both sides -49 Nickel-plated brass binding head screws -50 Rising surface clamp screws -51 Internal lock washer screws -52 External lock washer screws -53 Phillips head screws -58 Barrier supplied without screws -59 Screws supplied, unassembled -60 One row screws assembled, one row screws bulk -61 One row screws assembled, one row screws not supplied -66 Marker strip bonded to barrier (for 21000 only) -C Without mounting ends -M Metric screws -R Rivet construction (for 21000 only)	
Top-side hardware (options; indicate circuit positions)	2110 thru 2118 Quick-connect terminals, .250" tab 2130 Straddle plate 2131 Jumper, hole 2132 Jumper, slotted	

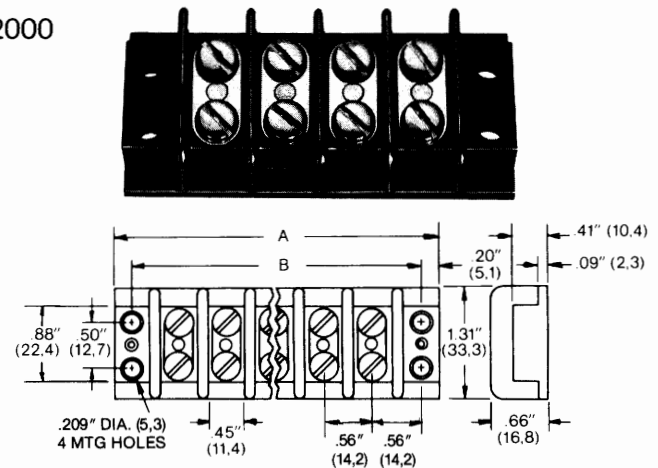
Dimensions in parenthesis are millimeters.

Dimensions

21000



22000



No. of circuits	A		B	
	in.	mm	in.	mm
1	1.53	38,9	1.13	28,7
2	2.09	53,1	1.69	42,9
3	2.66	67,6	2.25	57,2
4	3.22	81,8	2.81	71,4
5	3.78	96,0	3.38	85,9
6	4.34	110	3.94	100
7	4.91	125	4.50	114
8	5.47	139	5.06	129
9	6.03	153	5.63	143
10	6.59	167	6.19	157
11	7.16	182	6.75	171
12	7.72	196	7.31	186
13	8.28	210	7.88	200
14	8.84	225	8.44	214
15	9.41	239	9.00	229
16	9.97	253	9.56	243
17	10.53	267	10.13	257
18	11.09	282	10.69	272
19	11.66	296	11.25	286
20	12.22	310	11.81	300
21	12.78	325	12.38	314
22	13.34	339	12.94	329
23	13.91	353	13.50	343
24	14.47	368	14.06	357
25	15.03	382	14.63	372
26	15.59	396	15.19	386

Tolerance on length ± .015"

21000, 22000 continued

▲HOW TO ORDER: SEE PAGE 7.

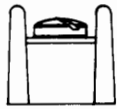
27

21000, 22000 continued

Top-side terminals

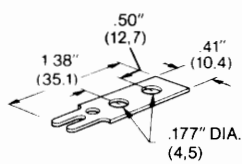
Material: .032" (0,8) brass (Style 0, nickel plated;
Styles 1 and 2 solder plated)

0 Screws only



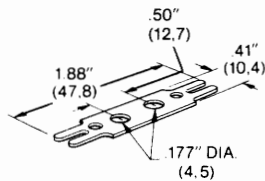
(21000 shown)

1 One-sided solder



To order in bulk,
use Cat. No. 211

2 Two-sided solder

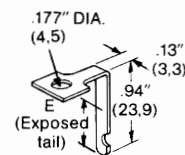


To order in bulk,
use Cat. No. 212

Bottom terminals

Material: .032" (0,8) brass,
solder plated

3 Solder, short

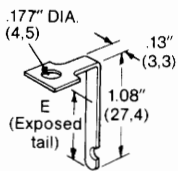


To order in bulk,
use Cat. No. 213

Jumpers/Straddle plate

Material: Jumpers .015" (0,4) brass, nickel plated. Straddle plate .032" (0,8) stainless steel
Options; when ordering, indicate circuit positions

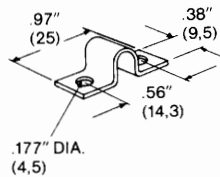
5 Solder, long



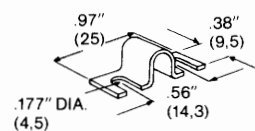
To order in bulk,
use Cat. No. 215

Series No.	Terminal style	Dimension E in.	Dimension E mm
21000	3 5	50 63	12,7 16,0
22000	3 5	46 .59	11,7 15,0

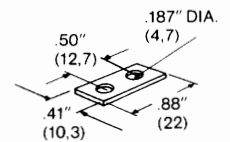
2131 Jumper, hole



2132 Jumper, slotted



2130 Straddle plate

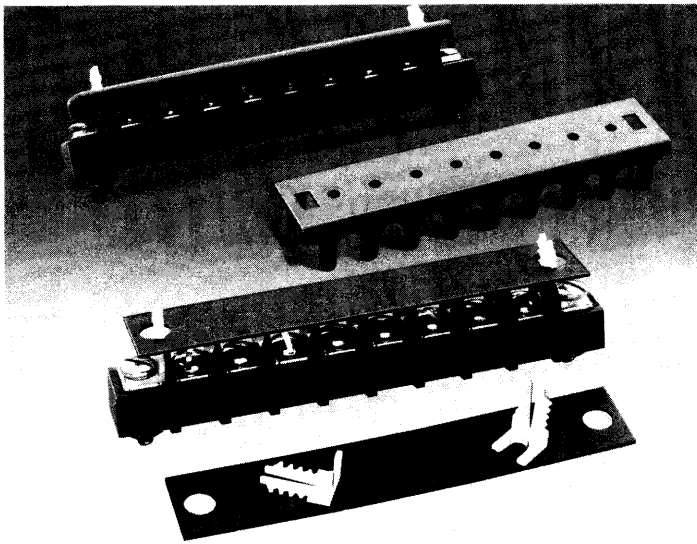


Quick-connect terminals

Material: Cadmium-plated brass
Option; when ordering, indicate circuit positions

One-sided	2113	2114	2115
250" tab. .032" thick			
Two-sided	2110	2111	2112
250" tab. .032" thick			
	2116	2117	2118

Snap-On Covers



Beau adds new wrap-around covers to line of flat cover assemblies

Now Vernitron offers wrap-around covers for barrier terminal strips in addition to flat covers.

Both styles snap on easily and provide the required protection at low cost.

Beau Snap-On Covers fit most makes, sizes and lengths of barrier terminal strips. The chart below indicates which cover to use with each Beau strip. For help in determining what other brands they fit, contact our sales department.

Specifications

Flat cover material: Vulcanized fiber, .032" (0, 8) thick, black.

Wrap-around

cover material: Thermoplastic, .050" (1, 3) thick, black.

Latch material: Acetal, .040" (1, 0) thick. Color, natural.

Imprinting: On special order.

Beau barrier terminal strip Series No.	Snap-on cover kit ▲ Cat. No.	No. of circuits	Cover width in.	mm	A in.	mm
--	------------------------------	-----------------	-----------------	----	-------	----

Single-row style — with wrap-around cover

72000	CW01-____*	1 to 26	.75	19, 1	—	—
75000	CW05-____*	1 to 26	.61	15, 5	—	—

Single-row style — with flat cover

12000	CA01-____*	2 to 30	.63	15, 9	—	—
13000	CA02-____*	2 to 26	.69	17, 5	—	—
72000	CA01-____*	2 to 26	.63	15, 9	—	—
71000	CA01-____*	2 to 26	.63	15, 9	—	—

Double-row style—with flat cover

14000	CA03-____*	2 to 30	.88	22, 2	.31	7, 9
16000	CA03-____*	2 to 30	.88	22, 2	.31	7, 9
15000	CA03-____*	2 to 31	.88	22, 2	.31	7, 9
17000	CA03-____*	2 to 31	.88	22, 2	.31	7, 9
76000	CA03-____*	2 to 30	.88	22, 2	.31	7, 9
77000	CA03-____*	2 to 30	.88	22, 2	.31	7, 9
18000	CA04-____*	2 to 30	1.13	28, 6	.42	10, 7
19000	CA04-____*	2 to 30	1.13	28, 6	.42	10, 7
78000	CA04-____*	2 to 30	1.13	28, 6	.42	10, 7

Two styles: flat and wrap around

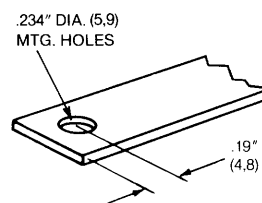
Beau flat covers protect the top of the strip and are the most economical type available.

Beau wrap-around covers protect the top and both sides of 72000 strips. Side guards prevent contact with live circuits, and the access holes in the top simplify circuit checking with test probes. For 75000 closed-side strips, the covers have one side guard to protect the open side of the strip.

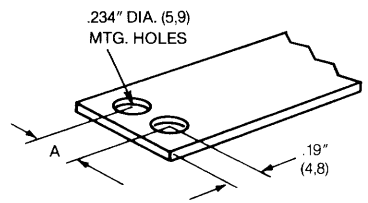
Covers are easily removed for quick access, yet cannot be accidentally dislodged.

Dimensions

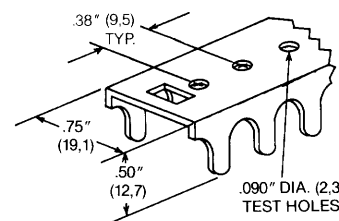
Flat cover for single-row strips



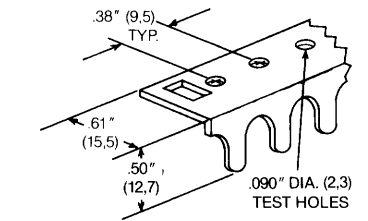
Flat cover for double-row strips



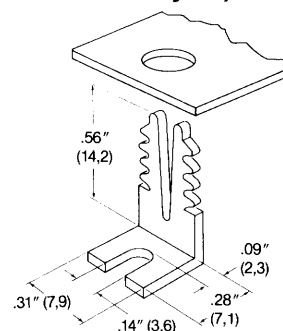
Wrap-around cover for 72000 strips



Wrap-around cover for 75000 closed-side strips



Latch (same for all cover styles)



Simple installation

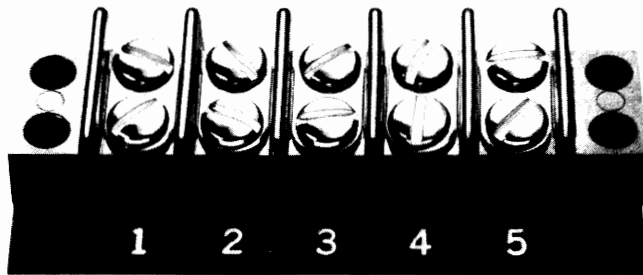
To install, fasten the slotted foot of the L-shaped latch to the mounting hole at the end of the barrier terminal strip. Secure one latch at each end. (For double-row styles, only one latch is needed at each end.) Squeeze the two serrated legs together and insert them in the hole at one end of the cover, pushing down the cover until it butts against the top of the barriers. Repeat at other end.

▲ Each kit consists of two latches and a cover.

* To complete catalog number, add number of circuits in strip.

Dimensions in parenthesis are millimeters.

Marker Strips



Insulating/marker strips are available in bulk; or they may be bonded to the bottom of open back barrier terminal strip (option -66). They can be furnished in vulcanized fiber (VF) or phenolic (XXXP). Lengths and mounting centers are the same as for the barrier terminal strip. The marker strips are available for the barrier terminal strips listed in the table at right.

They are available with or without clearance holes for feed thru terminals, and in a variety of imprinting arrangements (as shown). Style 101 is standard for non-feed-thru; style 301 is standard for feed-thru; the others are available on special order.

To order: For standard marker strips bonded to the barrier terminal strip, add dash number (-66) to catalog number along with material designation (VF or XXXP) and imprint style number. Example: -66-VF-101. To order marker strips separately, form catalog number as in this example: VF-14012-101.

Barrier terminal strip Catalog No.		10000	14000	18000 78000	21000	76000 77000
Marker strip width	in.	0.75	1.13	1.31	1.50	1.13
	mm	19,1	28,6	33,3	38,1	28,6
Imprinting character height	in.	0.06	0.13	0.13	0.13	0.13
	mm	1,5	3,2	3,2	3,2	3,2

Non-feed-thru marker strips

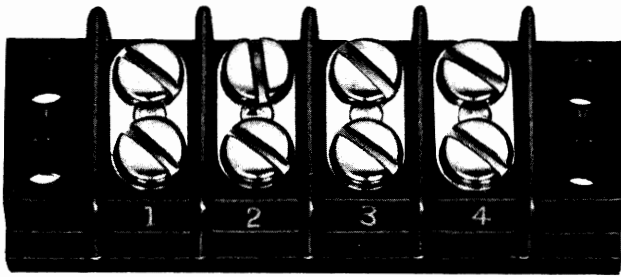
101	102	103	104
201	202	203	204

Feed-thru marker strips

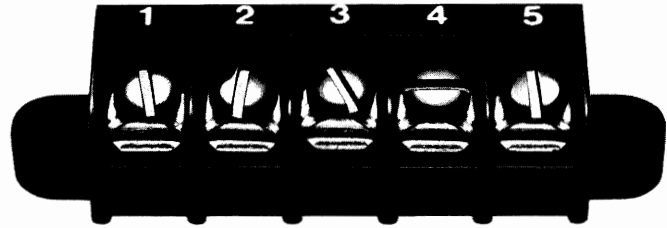
301	302	303	304
401	402	403	404
501	502	503	504
601	602	603	604

Information in this catalog is subject to change without notice. The information is believed to be accurate, however, Vernitron disclaims any liability for errors beyond the purchase price of the products shown.

Imprinting



All Beu barrier terminal strips may be furnished with imprinting (option) directly on the side of the strips. Imprinting on both sides is also available, except for 75000 Series. In the case of the 75000 Series closed side barrier terminal strips, they may be imprinted on the open side and/or on the top of the closed side.

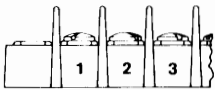


Imprinting character height is 0.06" for Series 10000, .094" for Series 75000, and 0.125" for all others. Styles available for imprinting are illustrated.

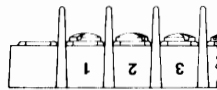
To order, add dash number to catalog number.

Imprinting on one side

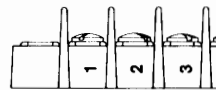
Style -10A



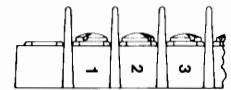
Style -10B



Style -10C



Style -10D



Style -11A



Style -11B



Style -11C

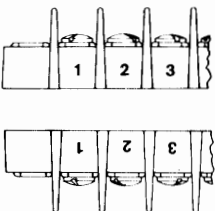


Style -11D

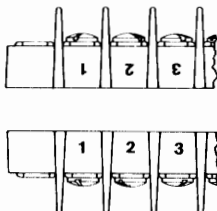


Imprinting on both sides

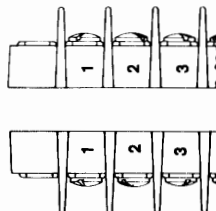
Style -12A



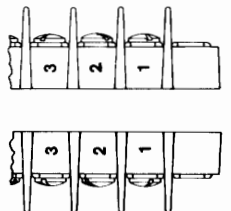
Style -12B



Style -13A

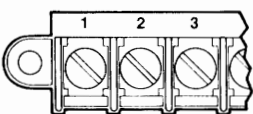


Style -13B

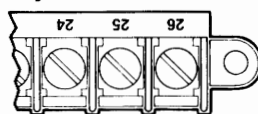


Imprinting on top of closed side

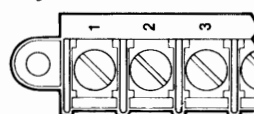
Style -10AT



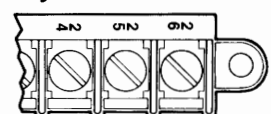
Style -10BT



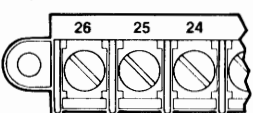
Style -10CT



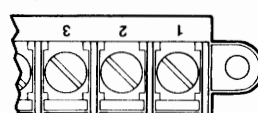
Style -10DT



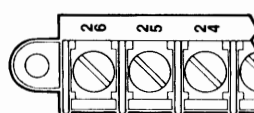
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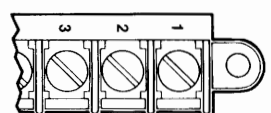
Style -11BT



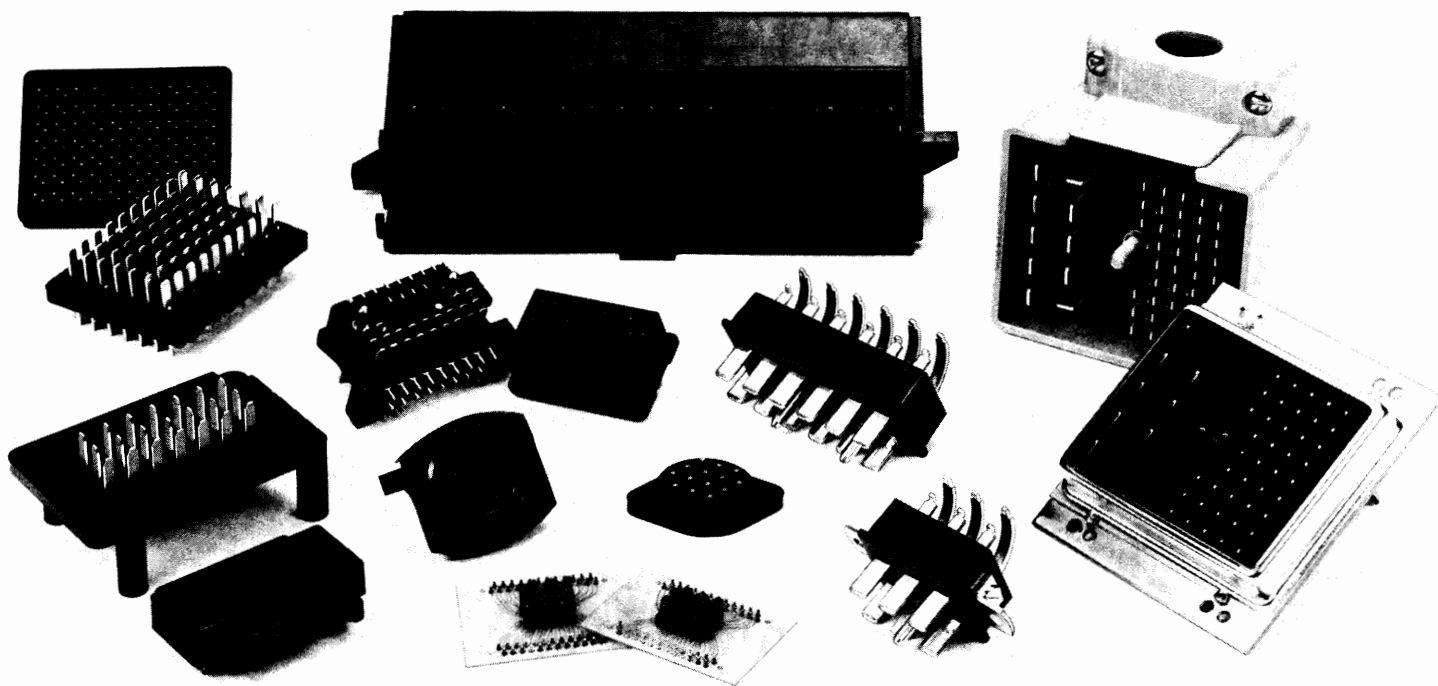
Style -11CT



Style -11DT



Custom Designs



Solving difficult interconnection problems is a Vernitron specialty

You have a special interconnection problem. Standard components don't solve the particular requirements of your application. There is one place you can go where you will find a top management commitment to solving special design problems: Vernitron Corporation.

Specials get the involvement of our most experienced design engineers—including the President of the Beau Products Division. What makes our design capabilities unique is a two-fold talent:

- (1) the ability to conceive interconnection designs that effectively solve the application problems, and
- (2) the ability to relate the design to standard manufacturing capabilities—or to rethink the manufacturing processes to fit the needs of the new component.

Because Vernitron's top engineers spend as much time designing our manufacturing and assembly equipment as they do designing new components, they have developed a very practical approach. An oversized part is a taboo—we automatically relate our designs to cost saving.

Interconnection components are typically labor intensive, because of the number and variety of metal inserts. At the Vernitron plant, the degree of automation is unusually high. This engineering ingenuity translates into lower unit costs for you.

The result: our specials may be more cost-effective than you would expect. So, tell us about your interconnection problems. You'll also find that our turn around time is usually faster than you'd expect. Pick up the phone and see.



VERNITRON CORPORATION BEAU PRODUCTS DIVISION

Box 10, Laconia, New Hampshire 03246
Tel: (603) 524-5101 TWX: 710-364-1843

Also available in Canada, England, Europe and Japan.

3107-7001-0000

**DEVERELL ASSOCIATES
WELLINGTON**

REC. - 3 SEP 1985

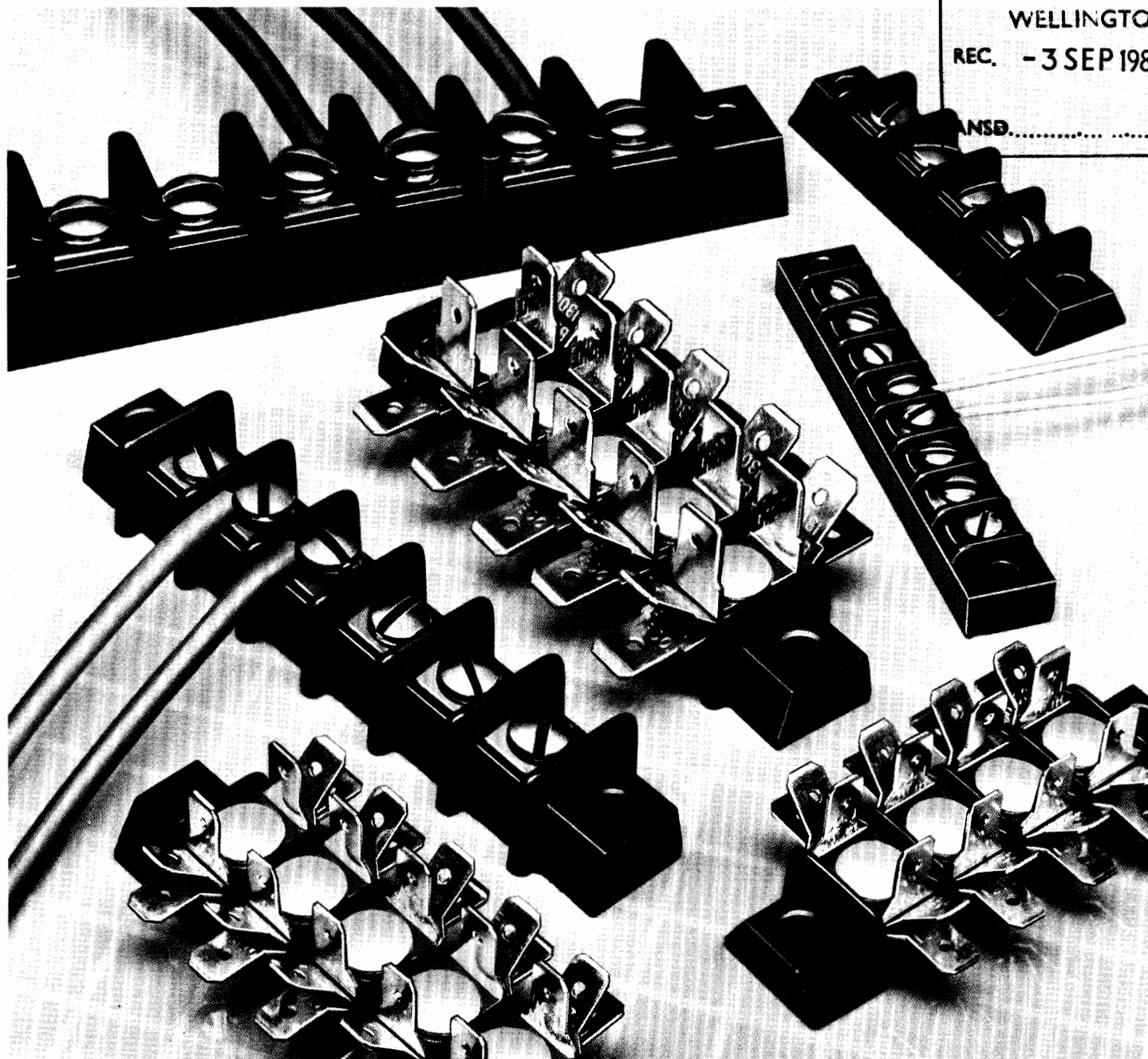
ANSD.....

Beau® Barrier Terminal Strips

DEVEREUX ASSOCIATES
WELLINGTON

REC. - 3 SEP 1985

ANSD.....



CROSS REFERENCE GUIDE

BEAU-screws	BEAU-rivets	KULKA-screws	KULKA-rivets	CINCH-screws
23000	23000-R	411	511	171
24000	24000-R	599	799	174
25000	25000-R	699	899	—
26000	26000-R	812	912	—



VERNITRON CORPORATION
BEAU PRODUCTS DIVISION

Single Row

10 amps
1/4" centers (6,4)
23000

15 amps
3/8" centers (9,5)
24000

20 amps
7/16" centers (11,1)
25000

30 amps
9/16" centers (14,3)
26000

Specifications

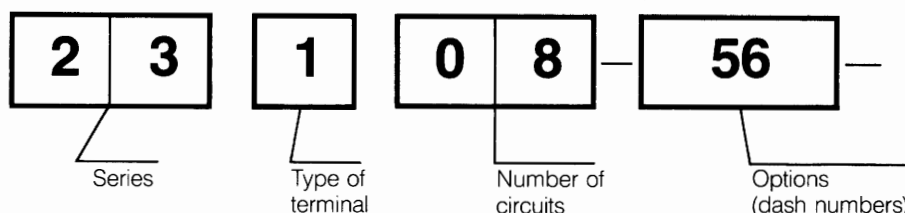
Series No.	23000	24000	25000	26000
Construction	Open back	Open back	Open back	Open back
Terminal centers	1/4" (6,4)	3/8" (9,5)	7/16" (11,1)	9/16" (14,3)
Current rating, amps (UL)	10*	15*	20*	30*
Voltage rating, rms *	750	1100	1100	1600
1. UL Recognized...				
Class B: Comm'l equip	250*	250*	250*	250*
Class C: Gen'l ind'l	150*	150*	150*	300*
2. CSA Certified	150@5 amps*	300@15 amps*	300@20 amps*	300@30 amps*
3. Withstand volts, rms	3000	8500	10500	10500
Insulator material	General purpose phenolic. UL temp index 150°C. Color, black.		General purpose phenolic. UL temp index 150°C. Color, black.	
Width x height	.41" x .31" (10,4 x 7,9)	.56" x .41" (14,2 x 10,5)	.69" x .50" (17,4 x 12,7)	.75" x .72" (19,1 x 18,2)
Wire size recommended, max AWG	22	16	14	12
Terminal screws (standard; also see options below)	No. 2-56 x 3/16" binding head screws. Brass, nickel plated	No. 5-40 x 1/4" binding head screws. Steel, cadmium plated	No. 6-32 x 1/4" binding head screws. Steel, cadmium plated	No. 8-32 x 5/16" binding head screws. Steel, cadmium plated
Top-side terminals (3rd digit of Cat. No.)▲	0 Screws only 1 One-sided solder 2 Two-sided solder	0 Screws only 1 One-sided solder 2 Two-sided solder	0 Screws only 1 One-sided solder 2 Two-sided solder	0 Screws only 1 One-sided solder 2 Two-sided solder
Over-the-side terminals (3rd digit of Cat. No.)▲	3 Solder 4 PC	3 Solder, short* 4 PC, short 5 Solder, long 6 PC, long 7 Wire wrap	3 Solder, short 5 Solder, long 6 PC, long 7 Wire wrap	3 Solder, short 5 Solder, long
No. of circuits (4th & 5th digits of Cat. No.)▲	1 to 22	1 to 30	1 to 30	1 to 18
Options (add dash numbers to Cat. No.)▲	-10A thru -11D Imprinting, one side -12A thru -13B Imprinting, both sides -56 Stainless steel screws -58 Barrier supplied without screws -59 Screws supplied, unassembled -C Without mounting ends -Q Quick-connect assembly -R Rivet construction	-10A thru -11D Imprinting, one side -12A thru -13B Imprinting, both sides -49 Nickel plated brass binding head screws -50 Rising surface clamp screws -51 Internal lock washer screws -52 External lock washer screws	-53 Phillips head screws -56 Stainless steel screws -58 Barrier supplied without screws -59 Screws supplied, unassembled -C Without mounting ends -M Metric screws -Q Quick-connect assembly -R Rivet construction	
Top-side hardware (options; indicate circuit positions)	2310 thru 2318 Quick- connect terminals, .110" tab 1031 Jumper, hole 1032 Jumper, slotted	1210 thru 1218 Quick- connect terminals, .187" tab 1219 Quick-connect terminal, .110" tab 1431 Jumper, hole 1432 Jumper, slotted 7233 Jumper, edge on	1310 thru 1318 Quick- connect terminals, .250" tab 1831 Jumper, hole 1832 Jumper, slotted 7833 Jumper, edge on	2610 thru 2618 Quick- connect terminals, .250" tab 2131 Jumper, hole 2132 Jumper, slotted

*Vernitron estimates of UL and CSA ratings; UL recognition and CSA certification have been applied for.

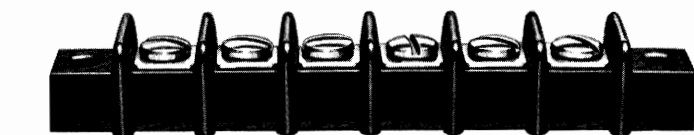
Dimensions in parentheses are millimeters.

How to Order

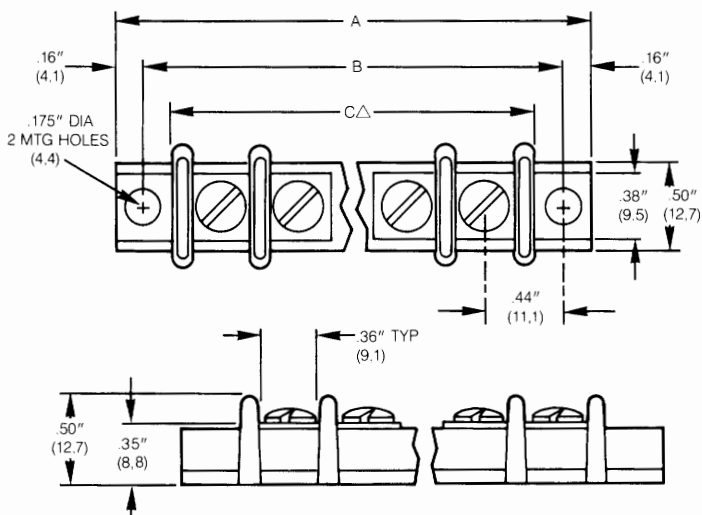
The basic catalog number contains five digits. As many options as are desired may be obtained by adding the appropriate dash numbers. For choices of terminals, numbers of circuits, and options available, refer to individual series.



Dimensions—25000

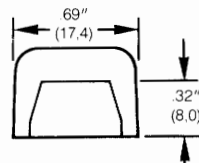


Actual size

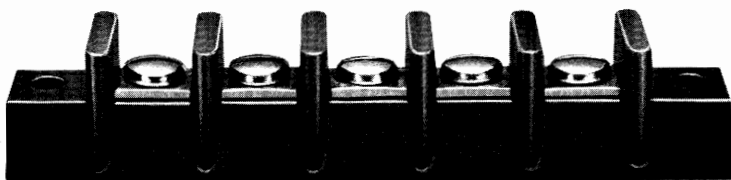


No. of circuits	A		B		CΔ	
	in.	mm	in.	mm	in.	mm
1	1.19	30.4	.88	22.4	.53	13.5
2	1.63	41.3	1.31	33.3	.97	24.6
3	2.06	52.3	1.75	44.5	1.41	35.8
4	2.50	63.6	2.19	55.6	1.84	46.7
5	2.94	74.8	2.63	66.8	2.28	57.9
6	3.38	85.7	3.06	77.7	2.72	69.1
7	3.81	96.6	3.50	88.9	3.16	80.3
8	4.25	108	3.94	100	3.59	91.2
9	4.69	119	4.38	111	4.03	102
10	5.13	130	4.81	122	4.47	114
11	5.56	141	5.25	133	4.91	125
12	6.00	153	5.69	145	5.34	136
13	6.44	164	6.13	156	5.78	147
14	6.88	175	6.56	167	6.22	158
15	7.31	186	7.00	178	6.66	169
16	7.75	197	7.44	189	7.09	180
17	8.19	208	7.88	200	7.53	191
18	8.63	219	8.31	211	7.97	202
19	9.06	230	8.75	222	8.41	214
20	9.50	241	9.19	233	8.84	225
21	9.94	253	9.63	245	9.28	236
22	10.38	264	10.06	256	9.72	247
23	10.81	275	10.50	267	10.16	258
24	11.25	286	10.94	278	10.59	269
25	11.69	297	11.38	289	11.03	280
26	12.12	308	11.81	300	11.47	291
27	12.56	319	12.25	311	11.90	302
28	13.00	330	12.69	322	12.34	313
29	13.44	341	13.13	333	12.78	325
30	13.88	353	13.56	345	13.22	336

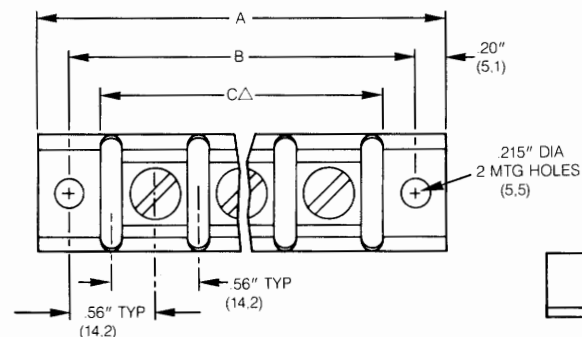
Tolerance on length $\pm .015"$
 Δ Overall length without mounting ends.



Dimensions—26000

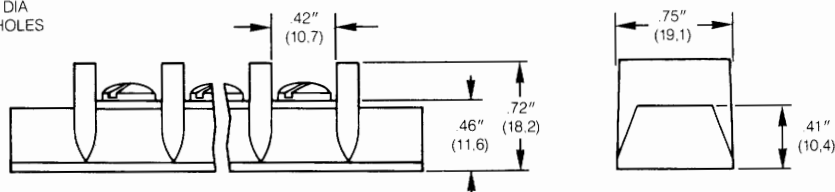


Actual size



No. of circuits	A		B		CΔ	
	in.	mm	in.	mm	in.	mm
1	1.53	38.9	1.13	28.6	.71	17.9
2	2.09	53.2	1.69	42.9	1.27	32.2
3	2.66	67.5	2.25	57.2	1.83	46.5
4	3.22	81.7	2.81	71.4	2.39	60.8
5	3.78	96.0	3.37	85.7	2.96	75.1
6	4.34	110	3.94	100	3.52	89.3
7	4.91	125	4.50	114	4.08	104
8	5.47	139	5.06	129	4.64	118
9	6.03	153	5.62	143	5.21	132
10	6.59	167	6.19	157	5.77	146
11	7.16	182	6.75	171	6.33	161
12	7.72	196	7.31	186	6.89	175
13	8.28	210	7.88	200	7.46	189
14	8.84	225	8.44	214	8.02	204
15	9.41	239	9.00	229	8.58	218
16	9.97	253	9.56	243	9.14	232
17	10.53	268	10.13	257	9.71	247
18	11.09	282	10.69	271	10.27	261

Tolerance on length $\pm .015"$
 Δ Overall length without mounting ends.



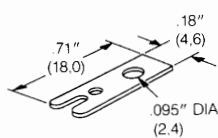
Top-side terminals—for 23000

Material: .020" (0.51) brass, solder plated (Styles 1 and 2)

0 Screws only

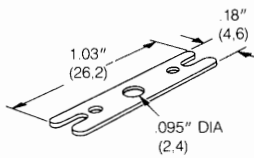


1 One-sided solder



To order in bulk
use Cat. No. 231

2 Two-sided solder

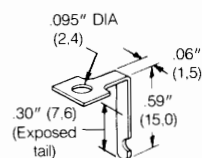


To order in bulk
use Cat. No. 232

Over-the-side terminals—for 23000

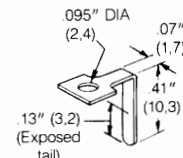
Material: .032" (0.8) brass, solder plated

3 Solder



To order in bulk
use Cat. No. 103

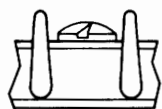
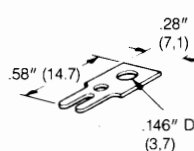
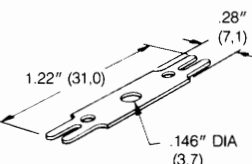
4 PC, short



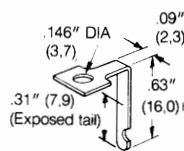
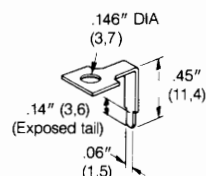
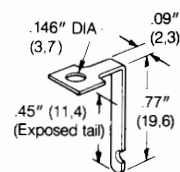
To order in bulk
use Cat. No. 104

Top-side terminals—for 24000

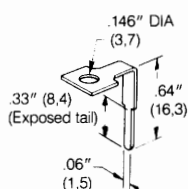
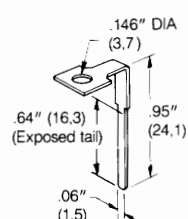
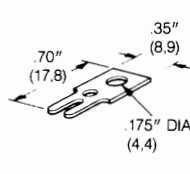
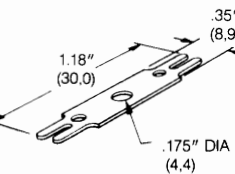
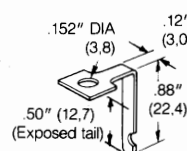
Material: .032" (0,8) brass, solder plated (Styles 1 and 2)

0 Screws only**1 One-sided solder**To order in bulk
use Cat. No. 121**2 Two-sided solder**To order in bulk
use Cat. No. 122**Over-the-side terminals—for 24000**

Material: .032" (0,8) brass (Style 3 solder plated; Style 4 bright electro-tinned)

3 Solder, shortTo order in bulk
use Cat. No. 143**4 PC, short**To order in bulk
use Cat. No. 144**5 Solder, long**To order in bulk
use Cat. No. 145**Top-side terminals—for 25000**

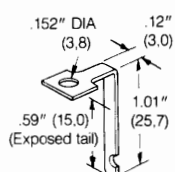
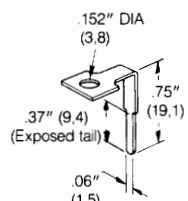
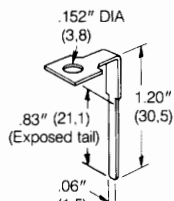
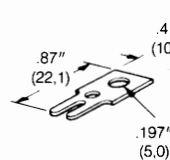
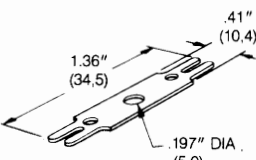
Material: .032" (0,8) brass, solder plated (Styles 1 and 2)

6 PC, longTo order in bulk
use Cat. No. 146**7 Wire wrap**To order in bulk
use Cat. No. 147**0 Screws only****1 One-sided solder**To order in bulk
use Cat. No. 131**2 Two-sided solder**To order in bulk
use Cat. No. 132**Over-the-side terminals—for 25000****3 Solder, short**To order in bulk
use Cat. No. 183

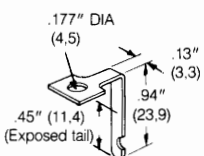
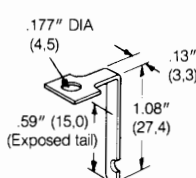
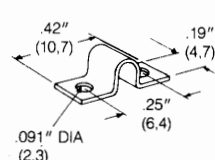
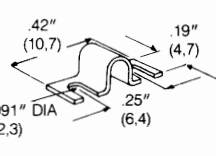
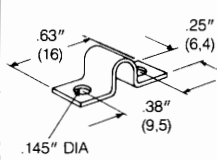
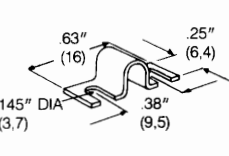
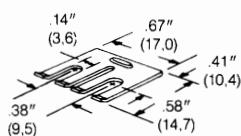
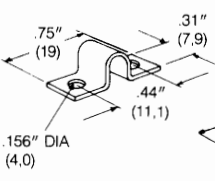
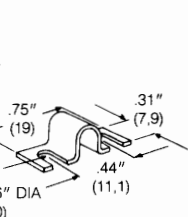
Material: .032" (0,8) brass (Styles 3 and 5 solder plated; Style 6 bright electro-tinned; Style 7 bright electro-tinned or nickel)

Top-side terminals—for 26000

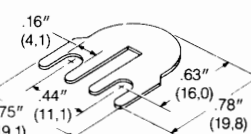
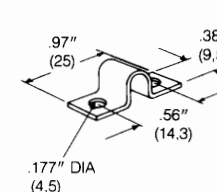
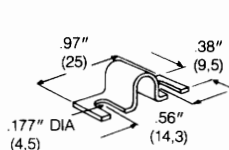
Material: .032" (0,9) brass, solder plated (Styles 1 and 2)

5 Solder, longTo order in bulk
use Cat. No. 185**6 PC, long**To order in bulk
use Cat. No. 186**7 Wire wrap**To order in bulk
use Cat. No. 187**0 Screws only****1 One-sided solder**To order in bulk
use Cat. No. 261**2 Two-sided solder**To order in bulk
use Cat. No. 262**Over-the-side terminals—for 26000**

Material: .032" (0,8) brass, solder plated

3 Solder, shortTo order in bulk
use Cat. No. 213**5 Solder, long**To order in bulk
use Cat. No. 215**Jumpers—for 23000**Material: .015" (0,4) brass, nickel plated
Options; when ordering, indicate circuit positions**1031 Jumper, hole****1032 Jumper, slotted****Jumpers—for 24000**Material: .015" (0,4) brass, nickel plated; 7233 is .032" (0,8)
Options; when ordering, indicate circuit positions**1431 Jumper, hole****1432 Jumper, slotted****Jumpers—for 25000**Material: .015" (0,4) brass, nickel plated; 7833 is .032" (0,8)
Options; when ordering, indicate circuit positions**7233/□ Jumper, edge on**For jumping 2 to 30
adjacent terminals.□ To order in a continuous strip,
indicate number of circuits**1831 Jumper, hole****1832 Jumper, slotted****7833 Jumper, edge on**

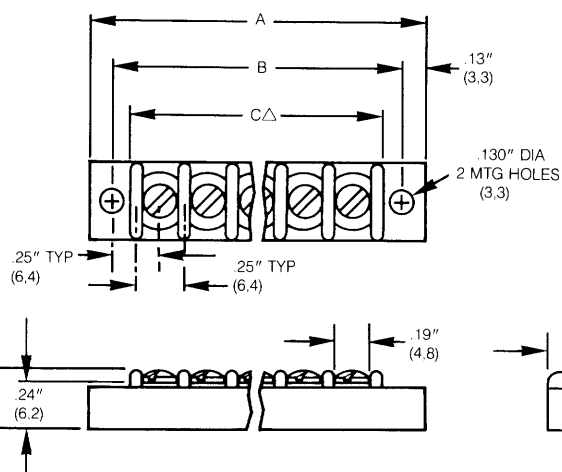
For jumping adjacent terminals

**Jumpers—for 26000**Material: .015" (0,4) brass, nickel plated
Options; when ordering, indicate circuit positions**2131 Jumper, hole****2132 Jumper, slotted**

Dimensions—23000



Actual size



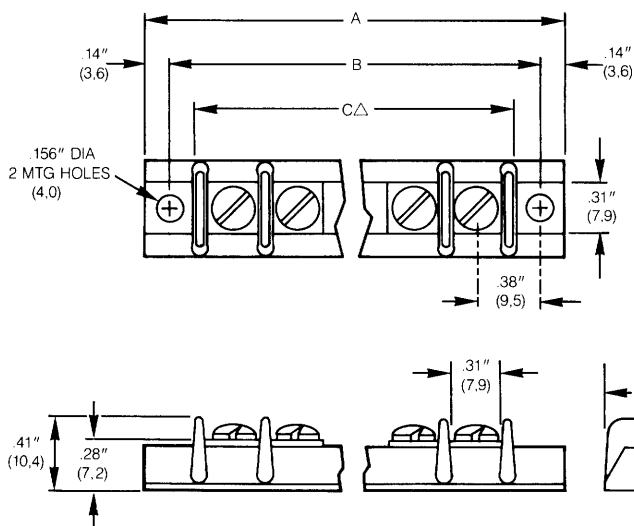
No. of circuits	A		B		CΔ	
	in.	mm	in.	mm	in.	mm
1	.75	19.1	.50	12.7	.31	7.8
2	1.00	25.4	.75	19.1	.56	14.2
3	1.25	31.8	1.00	25.4	.81	20.5
4	1.50	38.1	1.25	31.8	1.06	26.9
5	1.75	44.5	1.50	38.1	1.31	33.2
6	2.00	50.8	1.75	44.5	1.56	39.6
7	2.25	57.2	2.00	50.8	1.81	45.9
8	2.50	63.5	2.25	57.2	2.06	52.3
9	2.75	69.9	2.50	63.5	2.31	58.6
10	3.00	76.2	2.75	69.9	2.56	65.0
11	3.25	82.6	3.00	76.2	2.81	71.3
12	3.50	88.9	3.25	82.6	3.06	77.7
13	3.75	95.3	3.50	88.9	3.31	84.0
14	4.00	102	3.75	95.3	3.56	90.4
15	4.25	108	4.00	102	3.81	96.7
16	4.50	114	4.25	108	4.06	103
17	4.75	121	4.50	114	4.31	109
18	5.00	127	4.75	121	4.56	116
19	5.25	133	5.00	127	4.81	122
20	5.50	140	5.25	133	5.06	128
21	5.75	146	5.50	140	5.31	135
22	6.00	152	5.75	146	5.56	141

Tolerance on length $\pm .015"$
 Δ Overall length without mounting ends.

Dimensions—24000



Actual size



No. of circuits	A		B		CΔ	
	in.	mm	in.	mm	in.	mm
1	1.03	26.2	.75	19.1	.52	13.1
2	1.41	35.8	1.13	28.7	.89	22.6
3	1.78	45.2	1.50	38.1	1.27	32.1
4	2.16	54.9	1.88	47.8	1.64	41.7
5	2.53	64.3	2.25	57.2	2.02	51.2
6	2.91	73.9	2.63	66.8	2.39	60.7
7	3.28	83.3	3.00	76.2	2.77	70.2
8	3.66	93.0	3.38	85.9	3.14	79.8
9	4.03	102	3.75	95.3	3.52	89.3
10	4.41	112	4.13	105	3.89	98.8
11	4.78	121	4.50	114	4.27	108
12	5.16	131	4.88	124	4.64	118
13	5.53	140	5.25	133	5.02	127
14	5.91	150	5.63	143	5.39	137
15	6.28	160	6.00	152	5.77	146
16	6.66	169	6.38	162	6.14	156
17	7.03	179	6.75	171	6.52	166
18	7.41	188	7.13	181	6.89	175
19	7.78	198	7.50	191	7.27	185
20	8.16	207	7.88	200	7.64	194
21	8.53	217	8.25	210	8.02	204
22	8.91	226	8.63	219	8.39	213
23	9.28	236	9.00	229	8.77	223
24	9.66	245	9.38	238	9.14	232
25	10.03	255	9.75	248	9.52	242
26	10.41	264	10.13	257	9.89	251
27	10.78	274	10.50	267	10.27	261
28	11.16	283	10.88	276	10.64	270
29	11.53	293	11.25	286	11.02	280
30	11.91	303	11.63	295	11.39	289

Tolerance on length $\pm .015"$
 Δ Overall length without mounting ends.

Quick-connect terminals

Options: when ordering, indicate circuit positions

for 23000

Material: Brass, bright
tin plated
Tabs: .110" x .020"
thick

for 24000

Material: Cadmium-plated
brass
Tabs: .187" x .020"
thick (except No. 1219,
.110" x .020")

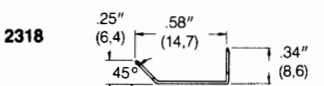
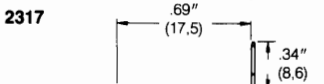
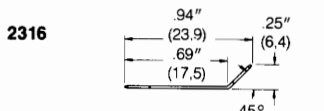
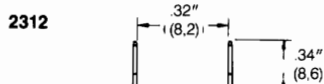
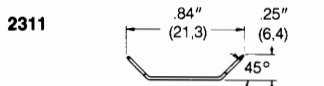
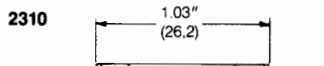
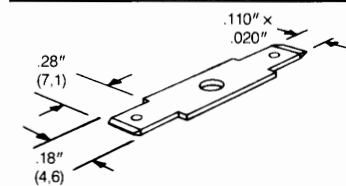
for 25000

Material: Cadmium-plated
brass
Tabs: .250" x .032"
thick

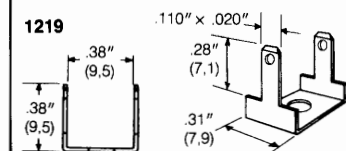
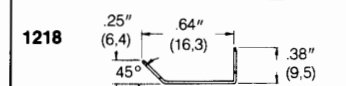
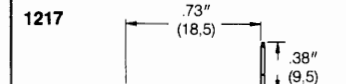
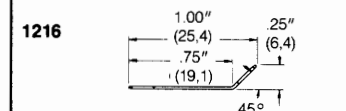
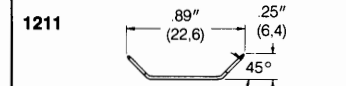
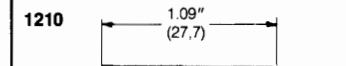
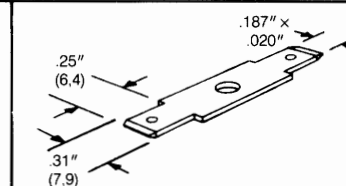
for 26000

Material: Brass, bright
electro-tinned
Tabs: .250" x .032"
thick

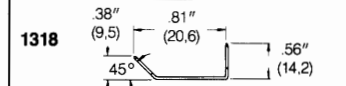
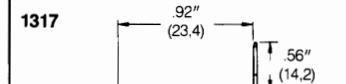
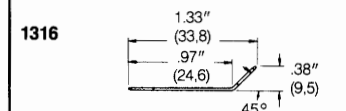
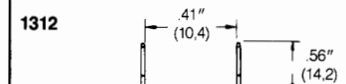
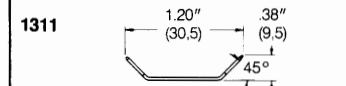
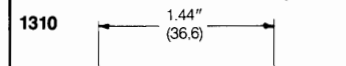
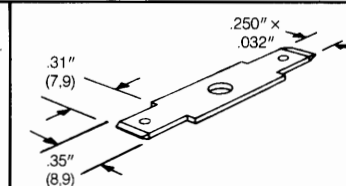
TWO-SIDED TABS



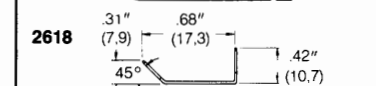
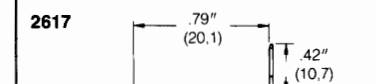
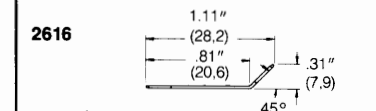
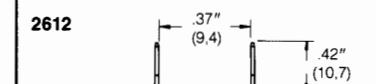
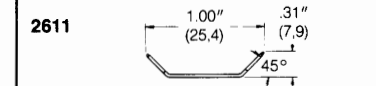
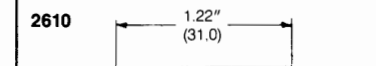
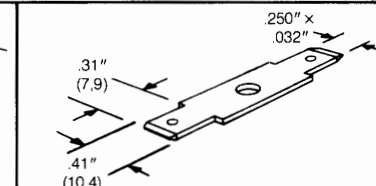
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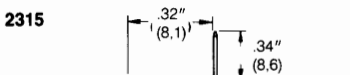
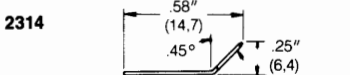
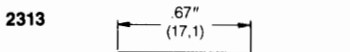
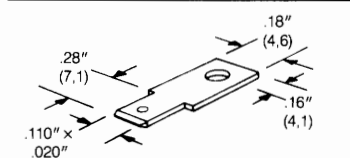
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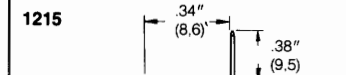
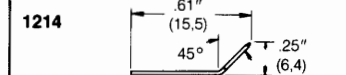
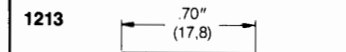
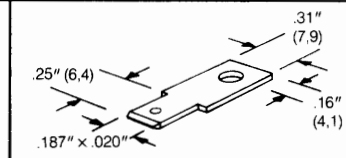
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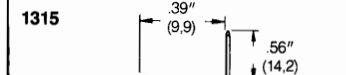
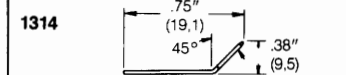
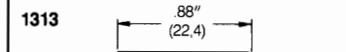
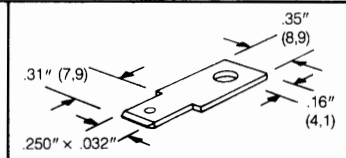
ONE-SIDED TABS



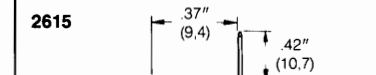
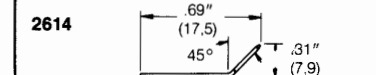
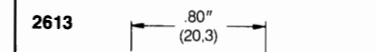
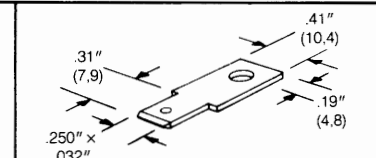
ONE-SIDED TABS



ONE-SIDED TABS



ONE-SIDED TABS



VERNITRON CORPORATION
BEAU PRODUCTS DIVISION

Box 10, Laconia, New Hampshire 03246
Tel: (603) 524-5101 TWX: 710-364-1843

Catalog No. 600
(Rev. 1)

Also available in Canada, England, Europe and Japan.

Information in this catalog is subject to change without notice. The information is believed to be accurate, however, Vernitron disclaims any liability for errors beyond the purchase price of the products shown.

Beau® Barrier Terminal Strips

Double Row

50 amps
11/16" centers (17,5)

28000

Specifications

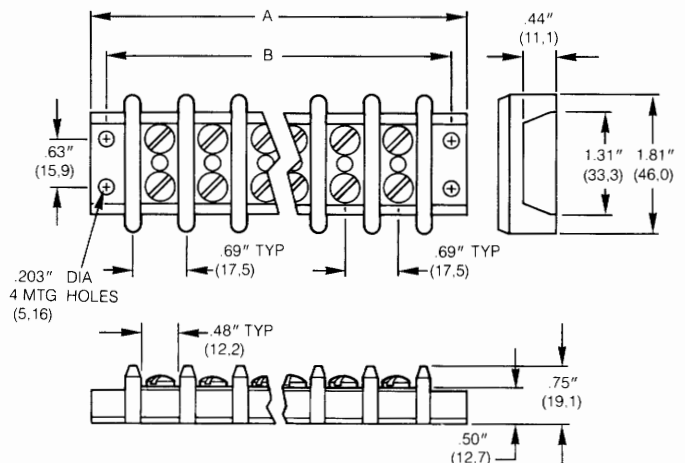
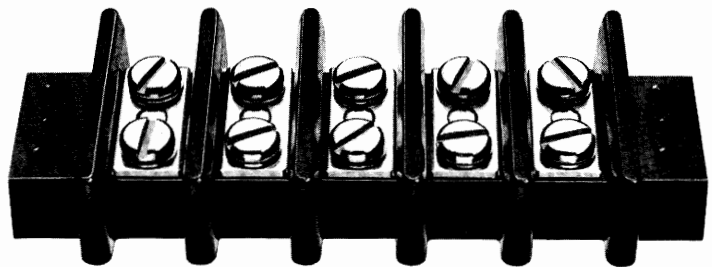
Series No.	28000
Construction	Open back
Terminal centers	11/16" (17,5)
Current rating, amps (UL)	50*
Voltage rating, rms	1700
1. UL Recognized...	
Class B: Comm'l equip	600*
Class C: Gen'l ind'l	600*
2. CSA Certified	600 @ 50 amps*
3. Withstand volts, rms	10500
Insulator material	General purpose phenolic. UL temp index 150°C. Color, black.
Width x height	1 13/16" x 3/4" (46,0 x 19,1)
Wire size recommended, max AWG	No. 6 lugged
Terminal screws (standard; also see options below)	No. 10-32 x 3/8" binding head screws. Brass, nickel plated
Top-side terminals (The 1-digit No. becomes 3rd digit of Cat. No.; 2-digit No. is dash No.)▲	0 Screws only 1 One-sided solder 2 Two-sided solder -70 Stud terminal
Bottom terminal (3rd digit of Cat. No.)▲	3 Solder, short
No. of circuits (4th & 5th digits of Cat. No.)▲	1 to 12
Options (add dash numbers to Cat. No.)▲	-10A thru -11D Imprinting, one side -12A thru -13B Imprinting, both sides -51 Internal lock washer screws -53 Phillips head screws -58 Barrier supplied without screws -59 Screws supplied, unassembled -60 One row screws assembled, one row screws bulk -61 One row screws assembled, one row screws not supplied
Top-side hardware (option; indicate circuit positions)	2831 Jumper, hole

Dimensions in parentheses are millimeters.

*Vernitron estimates of UL and CSA ratings; UL recognition and CSA certification have been applied for.

▲HOW TO ORDER: See page 7 of Cat. #500.

Dimensions



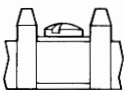
No. of circuits	A		B	
	in.	mm	in.	mm
1	1.81	46,0	1.38	34,9
2	2.50	63,5	2.06	52,4
3	3.19	81,0	2.75	69,9
4	3.88	98,4	3.44	87,3
5	4.56	116	4.13	105
6	5.25	133	4.81	122
7	5.94	151	5.50	140
8	6.63	168	6.19	157
9	7.31	186	6.88	175
10	8.00	203	7.56	192
11	8.69	221	8.25	210
12	9.38	238	8.94	227

Tolerance on length ± .015"

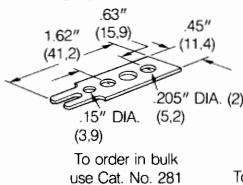
Top-side terminals

Material: .062" (1,6) brass (Style 0, nickel plated; Styles 1 and 2, solder plated)

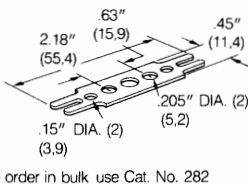
0 Screws only



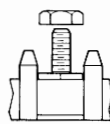
1 One-sided solder



2 Two-sided solder



-70 Stud terminal

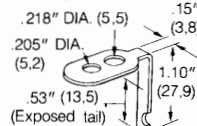


Material: unplated brass (nut & stud)
Size: No. 10-32NF

Bottom terminal

Material: .062" (1,6) brass, solder plated

3 Solder, short

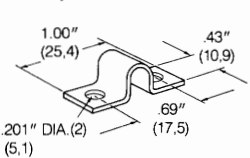


To order in bulk use Cat. No. 283

Jumper

Material: .032" (0,8) brass, nickel plated
Option: when ordering, indicate circuit positions

2831 Jumper, hole



3108-3301-0000

VERNITRON CORPORATION
BEAU PRODUCTS DIVISION

Box 10, Laconia, New Hampshire 03246
Tel: (603) 524-5101 TWX: 710-364-1843

Beau® Barrier Terminal Strips

Single Row

20 amps
7/16" centers (11,1)
thermoplastic
74000 low profile

DE VERELL ASSOCIATES
WELLINGTON

REC. - 3 SEP 1985

ANSD.....

Specifications

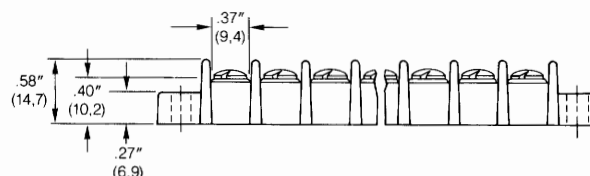
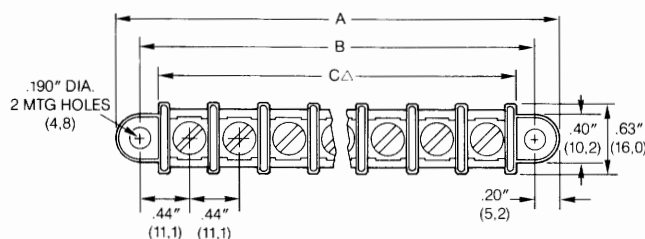
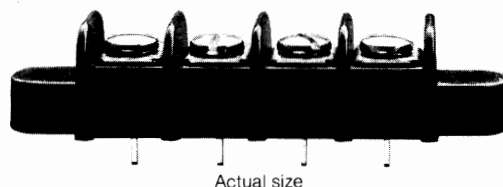
Series No.	74000
Construction	Low barrier; closed back or feed thru
Terminal centers	7/16" (11,1)
Current rating, amps (UL)	20
Voltage rating, rms	
1. UL Recognized, Class...	
B. Commercial equipment	250
C. General industrial	300
2. CSA certified	300 @ 10 amps; 150 @ 20 amps
3. Withstand volts, rms	8500
Insulator material	Thermoplastic, glass-filled. UL temp index 105°C. UL flame retardant rating 94 V-O. Color, black.
Width x height	.63" x .58" (16,0 x 14,7)
Wire size recommended, max AWG	14
Terminal screws (standard; also see options below)	No. 6-32 x 1/4" binding head screws. Steel, nickel plated
Top-side terminals (3rd digit of Cat. No.)	1 Closed back, screws only
Bottom terminals (3rd digit of Cat. No.)	2 Insulated solder turret 3 Insulated PC 5 PC 6 Solder turret 7 Wire wrap 8 Right angle PC 9 Insulated quick-connect
No. of circuits (4th & 5th digits of Cat. No.)	1 to 30
Options (add dash number to Cat. No.)	-10A thru -11D Imprinting, one side -12A thru -13B Imprinting, both sides -49 Nickel-plated brass binding head screws -50 Rising surface clamp screws -51 Internal lock washer screws -52 External lock washer screws -53 Phillips head screws -56 Stainless steel screws -58 Barrier supplied without screws -59 Screws supplied, unassembled -A Oversize screws -C Without mounting ends -M Metric screws -P With standoff pads, .070" x .078" x .040"H (1,8 x 2,0 x 1,0) -V Polyester insulator material, UL temp index 130°C
Top-side hardware (options; indicate circuit positions)	7310 thru 7318 Quick-connect terminals, .250" tab 1831 Jumper, hole 1832 Jumper, slotted 7833 Jumper, edge on

Dimensions in parentheses are millimeters.

Avoid breakage with tough thermoplastic strips

Costly component replacement and re-wiring are no longer a problem with our flexible thermoplastic strips.

Dimensions



No. of circuits	A		B		C Δ	
	in.	mm	in.	mm	in.	mm
1	1.28	32,4	.88	22,2	—	—
2	1.71	43,5	1.31	33,4	.97	24,6
3	2.15	54,6	1.75	44,5	1.40	35,7
4	2.59	65,7	2.19	55,6	1.84	46,8
5	3.03	76,8	2.63	66,7	2.28	57,9
6	3.46	88,0	3.06	77,8	2.72	69,0
7	3.90	99,1	3.50	88,9	3.15	80,1
8	4.34	110	3.94	100	3.59	91,2
9	4.78	121	4.38	111	4.03	102
10	5.21	132	4.81	122	4.47	113
11	5.65	144	5.25	133	4.90	125
12	6.09	155	5.69	144	5.34	136
13	6.53	166	6.13	156	5.78	147
14	6.96	177	6.56	167	6.22	158
15	7.40	188	7.00	178	6.65	169
16	7.84	199	7.44	189	7.09	180
17	8.28	210	7.88	200	7.53	191
18	8.71	221	8.31	211	7.97	202
19	9.15	232	8.75	222	8.40	213
20	9.59	244	9.19	233	8.84	225
21	10.03	255	9.63	244	9.28	236
22	10.46	266	10.06	256	9.72	247
23	10.90	277	10.50	267	10.15	258
24	11.34	288	10.94	278	10.59	269
25	11.78	299	11.38	289	11.03	280
26	12.22	310	11.81	300	11.47	291
27	12.65	321	12.25	311	11.90	302
28	13.09	332	12.69	322	12.34	313
29	13.53	344	13.13	333	12.78	325
30	13.96	355	13.56	345	13.22	336

Tolerance on length ± .015"

Δ Overall length without mounting ends.

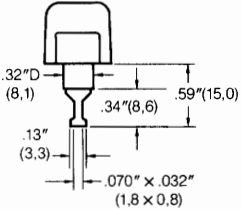
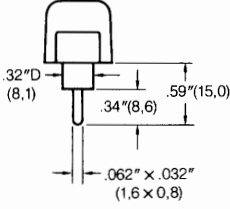
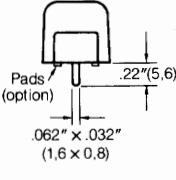
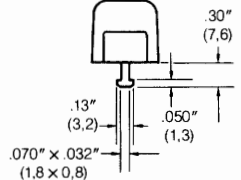
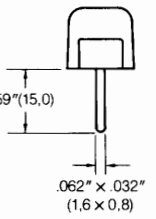
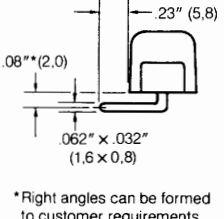
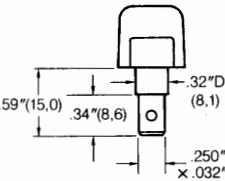
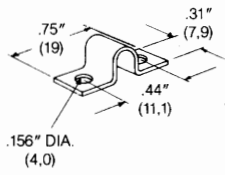
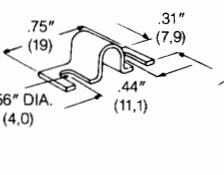
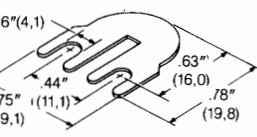
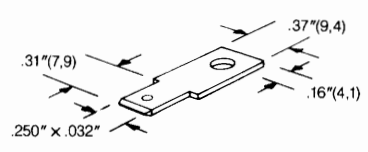
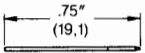
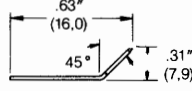
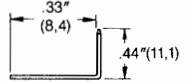
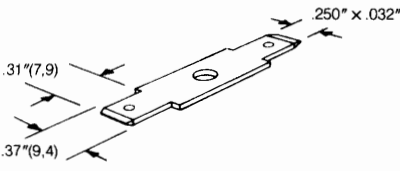
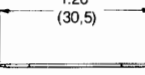
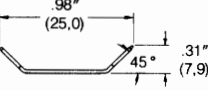
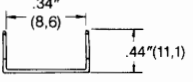
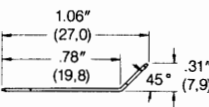
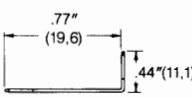
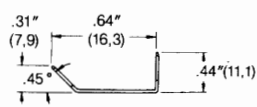
continued

Double the pull-out strength

Terminals are imbedded into the walls of the terminal block on both sides. This provides a pull-out strength over twice as great as competitive designs which retain the terminal only by twisting the terminal tail. Imbedding the terminals also eliminates solder joint fatigue from twisting the tail while torquing the screws, and resists fatigue under vibration conditions.

Contact tails enclosed for maximum circuit isolation

Terminals are ultrasonically welded in, so there's no twisting of tails to secure them. Thus, the large hole usually needed for twisting action can be virtually the same size as the contact tail. With no cavities around dip solder contact tails, the terminal strip can be mounted directly on PC board without affecting isolation. No foreign matter is entrapped; solder wicking is reduced.

Top-sided terminal Material: .032" (0.8) brass, bright electro-tinned		Bottom terminals Material: .032" (0.8) brass, bright electro-tinned			
1 Closed back		2 Insulated solder turret	3 Insulated PC	5 PC	6 Solder turret
					
		Jumper Material: .015" (0.4) brass, nickel plated; 7833 is .032" (0.8) Option: when ordering, indicate circuit positions			
7 Wire wrap	8 Right angle PC	9 Insulated quick-connect	1831 Jumper, hole	1832 Jumper, slotted	7833 Jumper, edge on For jumping adjacent terminals
					
Quick-connect terminals Material: Brass, bright electro-tinned Options: when ordering, indicate circuit positions					
One-sided		7313	7314	7315	
					
Two-sided		7310	7311	7312	
					
		7316	7317	7318	
					



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Bulletin 510 (Rev. 1)