

The K70 series enclosures are small to medium in size and offer cost effective solutions for many applications.

They can accommodate 8 to 32 terminals for field wire connections. Pressure plate terminals are standard with both the fixed and pluggable versions.

MATERIALS

Housing Housing Shell: ABS Housing Cover: Polycarbonate, 10% Glass Filled *Terminals* Pressure Plate: Chromated Steel Terminal Screw: Chromated Steel Connector Contact: Tin Plated Bronze

Temperature Range: 60°C (140°F) UL94VO **Standard Color:** Light Gray

PROTECTION

K7O enclosures have an IP10 rating (hand protected). By using optional terminal covers the protection rating can be increased to IP20 (finger protected). VBG4 and other European accident prevention requirements are met.

CONSTRUCTION

The K70 enclosures are supplied as unassembled kits. Each kit consists of a housing shell and a snap-on cover, complete with integral terminals and terminal-to-board connection provisions. Integral printed circuit board guides are molded into the housing shell to save time when inserting boards, to prevent misconnections and to keep the boards in place. Integral tabs on the bottom of the shell further help to hold the boards in place and eliminate lateral movement and warpage. Printed circuit boards can be mounted in three ways:

- Vertically
- Horizontally
- Behind the Front Cover

Boards can be placed vertically (perpendicular to the DIN rail) and/or horizontally (parallel with the DIN rail). Enclosures with plug-in covers can accept an additional board mounted directly behind the front cover. This board is ideal for mounting indicating devices such as LEDs, LCDs for monitoring, switches and potentiometers for setting and adjusting purposes. The housing cover snaps onto the housing shell. Two tabs lock the cover firmly in place. Removal of the cover is possible for service and repair. Potting is possible.



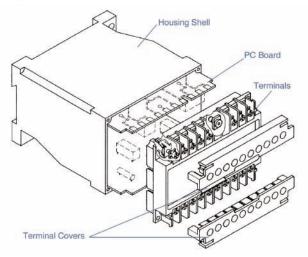
The K70 housing covers have external and internal barriers between terminals to increase creepage distance and to help prevent accidental touching of live potentials that may be present. Optional terminal covers that decrease the size of the opening are available as accessories.



TERMINALS

Pressure Plate terminals with either fixed or pluggable terminalto-board connections are offered in the K70 enclosures. The pressure plate, which is captive to the terminal screw, automatically rises when the screw is loosened. One or two wires of equal or different sizes up to 2.5mm² (14 AWG) can be terminated in each terminal. The grooved corners of the pressure plate ensure positive wire retention. The flat bottom of the terminal extends to the inside of the enclosure and provides the terminal-to-board connection. The terminal screws can be turned by a flat tip or a #2 Phillips screwdriver.

Upon request, terminals can be loaded in selected positions only.



TERMINAL-TO-BOARD CONNECTIONS

The K70 series offers fixed and pluggable terminal-to-board connection possibilities.

Fixed Connections

Fixed terminal-to-board connections can be made by Wire Jumper, Fast On tabs or Machine Solderable Pins (K7022.5C only).

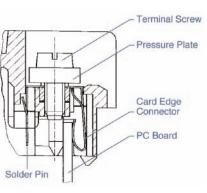
Fast On tabs, (2.8 x 0.8 mm) accept industry standard Fast On connectors crimped onto wire jumpers.

Wire Jumper connections can also be made by soldering a wire jumper between the center holes of the Fast On tab and the printed circuit board(s).

Machine Solderable Pins (offered only with type K7022.5C) can be removed from the enclosure and machine soldered to the board in the same step as other components, saving assembly time.

Pluggable Connections

Pluggable terminal-to-board connections are made by using **Card Edge** connectors. They are an integral part of the covers of K7075P, K70100P and K70150P and plug directly onto the board(s). **Solder Pins** are also provided in these enclosures for terminal-to-board connections when mounting an additional board directly behind the front cover. A **Wire Jumper** can be soldered to these pins as well.



For better retention, the plua-in type covers have captive screws at the corners that insert into brass bushings, molded into the housing shell. The pluggable versions are ideal whenever guick connections and replacement are important. They also reduce the danger of misconnected wires and downtime.

MOUNTING

The K70 Enclosures mount easily by snapping onto standard 35mm DIN Rail. Many can also be panel mounted using corner mounting holes which accept two M4 or M5 (#6 or #10) screws. These mounting holes are molded into two corners of the housing shell base and do not increase the height or width of the enclosure, thus insuring a compact, high density arrangement when multiple enclosures are installed adjacent to each other. Enclosure types K7022.5A, K7022.5B and K7022.5C have two integral pull-out tabs on the base of the enclosure for panel mounting. (Refer to Enclosure Mounting Procedures on page 19.)

MARKING

The K70 enclosures have an area on the front of the cover for marking and mounting of components such as switches, potentiometers, LEDs or LCD indicators. Custom imprinted plates can be inserted as well, allowing imprinting of plates separate from the enclosure, reducing cost and delays.

ACCESSORIES

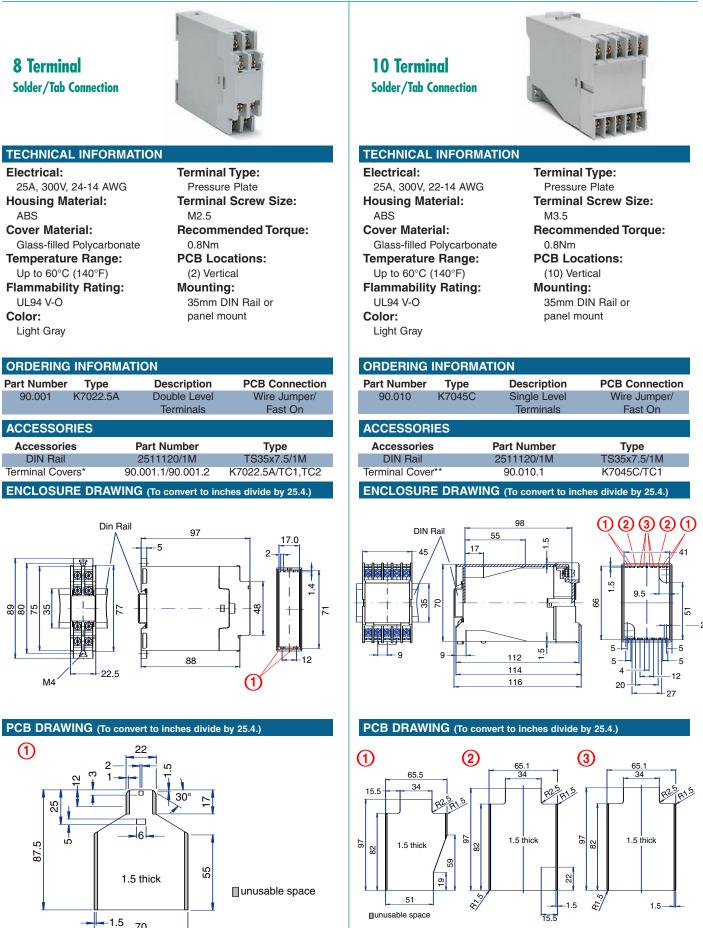
- 35 x 7.5 mm DIN Rail
- Terminal Covers
- Pull-Out Panel Mounting Tabs.





CUSTOMIZATION

Enclosures can be customized with cutouts and holes for potentiometers, switches, LEDs, LCDs and other devices. Using state of the art machining, we can punch, drill or cut to your most exacting specifications. Custom colors and special markings are also available. Please let us know what your requirements are.



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** Note: One piece Teminal Cover covers both sides.

70

* Note: Need one of each Terminal Cover.

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12 Terminal Solder/Tab Connection	12 Terminal Solder Connection
TECHNICAL INFORMATIONElectrical: 20A, 300V, 24-14 AWGTerminal Type: Pressure PlateHousing Material: ABSPressure PlateABSM2.5Cover Material: Glass-filled PolycarbonateN2.5Temperature Range: Up to 60°C (140°F)0.8NmUL94 V-OColor: panel mountLight Gray35mm DIN Rail or 	TECHNICAL INFORMATIONElectrical: 20A, 300V, 22-14 AWGTerminal Type: Pressure PlateHousing Material: ABSTerminal Screw Size: M3.5ABSM3.5Cover Material: Glass-filled PolycarbonateRecommended Torque: 0.8NmTemperature Range: Up to 60°C (140°F)PCB Locations: (2) VerticalUL94 V-O35mm DIN Rail or panel mountLight Gray35mm DIN Rail or panel mount
ORDERING INFORMATION Part Number Type Description PCB Connection 90.020 K7022.5B Double Level Terminals Wire Jumper/ Fast On ACCESSORIES Part Number Type DIN Rail 2511120/1M TS35x7.5/1M Terminal Covers* 90.020.1/90.020.2 K7022.5BTC1/TC2 ENCLOSURE DRAWING (To convert to inches divide by 25.4.)	ORDERING INFORMATION Part Number Type Description PCB Connection 90.030 K7022.5C Shrouded Double Wire Jumper/ Level Terminals Machine Solderable Pins ACCESSORIES Part Number Type DIN Rail 2511120/1M TS35x7.5/1M ENCLOSURE DRAWING (To convert to inches divide by 25.4.) 99
DIN Rail 97 18 2 14 1 12 18 1 12 18 18 1 12 12 12 12 12 12 12	$\begin{array}{c} 1 & 2 & 3 \\ 9 & 9 \\ 9 & 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9$
PCB DRAWING (To convert to inches divide by 25.4.)	PCB DRAWING (To convert to inches divide by 25.4.)

12 Terminal Solder/Tab Connection	16 Terminal Pluggable Connection			
TECHNICAL INFORMATIONElectrical:Terminal Type:25A, 300V, 22-14 AWGPressure PlateHousing Material:M3.5ABSM3.5Cover Material:Recommended Torque:Glass-filled Polycarbonate0.8NmTemperature Range:0.5 VerticalUp to 60°C (140°F)(5) VerticalFlammability Rating:(1) Behind CoverUL94 V-OMounting:Color:35mm DIN Rail	TECHNICAL INFORMATIONElectrical:Terminal Type:10A, 300V, 22-14 AWGPressure PlateHousing Material:Pressure PlateABSM3.5Cover Material:M3.5Glass-filled PolycarbonateRecommended Torque:0.8Nm0.8NmTemperature Range:0.8NmUp to 60°C (140°F)(7) Vertical (6) HorizontalFlammability Rating:(1) Behind CoverUL94 V-OMounting:Color:35mm DIN Rail or			
Light Gray ORDERING INFORMATION Part Number Type Description PCB Connection 90.040 K7055 Single Level Wire Jumper/	Light Gray panel mount ORDERING INFORMATION Part Number Type Description PCB Connection 90.050 K7075P Single Level Wire Jumper/			
Solution Information Terminals Fast On Accessories Part Number Type DIN Rail 2511120/1M TS35x7.5/1M Terminal Covers* 90.040.1 K7055/TC1 CLOSURE DRAWING (To convert to inches divide by 25.4.)	Soldoo Interview Solder Pin/ Card Edge Accessories Part Number Type DIN Rail 2511120/1M TS35x7.5/1M Terminal Cover* 90.050.1 K7075P/TC1 ENCLOSURE DRAWING (To convert to inches divide by 25.4.) DIN Rail 211120/1M TS35x7.5/1M Terminal Cover* 90.050.1 K7075P/TC1 ENCLOSURE DRAWING (To convert to inches divide by 25.4.) DIN Rail 2112 Image: District of the state of			
* Note: Need two Terminal Covers.	* Note: Need two Terminal Covers.			

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16 Terminal

Pluggable Connection (DIN Rail Mount Only)

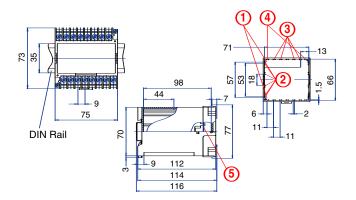


Electrical: 10A, 300V, 22-14 AWG Housing Material: ABS Cover Material: Glass-filled Polycarbonate Temperature Range: Up to 60°C (140°F) Flammability Rating: UL94 V-O Color: Light Gray Terminal Type: Pressure Plate Terminal Screw Size: M3.5 Recommended Torque: 0.8Nm PCB Locations: (7) Vertical (6) Horizontal (1) Behind Cover Mounting: 35mm DIN Rail

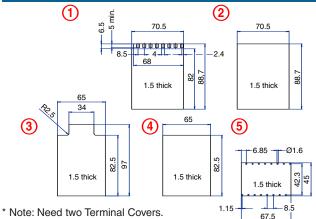
ORDERING INFORMATION

Part Number Type	Description	PCB Connection			
90.050.5 K7075P	Single Level	Wire Jumper/			
	Terminals	Solder Tab/ Card Edge			
ACCESSORIES					
Accessories	Part Number	Туре			
DIN Rail	2511120/1M	TS35x7.5/1M			
Terminal Covers*	90.050.1	K7075P/TC1			

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



20 Terminal Solder/Tab Connection



TECHNICAL INFORMATION

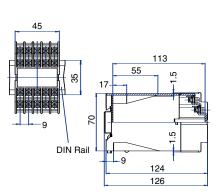
Electrical:
25A, 300V, 22-14 AWG
Housing Material:
ABS
Cover Material:
Glass-filled Polycarbonate
Temperature Range:
Up to 60°C (140°F)
Flammability Rating:
UL94 V-O
Color:
Light Gray

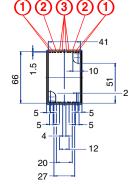
Terminal Type: Pressure Plate Terminal Screw Size: M3.5 Recommended Torque: 0.8Nm PCB Locations: (10) Vertical Mounting: 35mm DIN Rail or panel mount

ORDERING INFORMATION

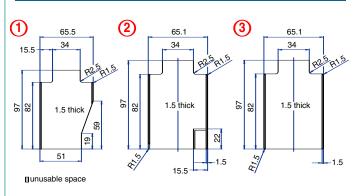
Part Number	Туре	Description	PCB Connection	
90.060	K7045D1	Double Level	Wire Jumper/	
		Terminals	Fast On	
ACCESSORIES				
Accessories	6	Part Number	Туре	
DIN Rail		2511120/1M	TS35x7.5/1M	

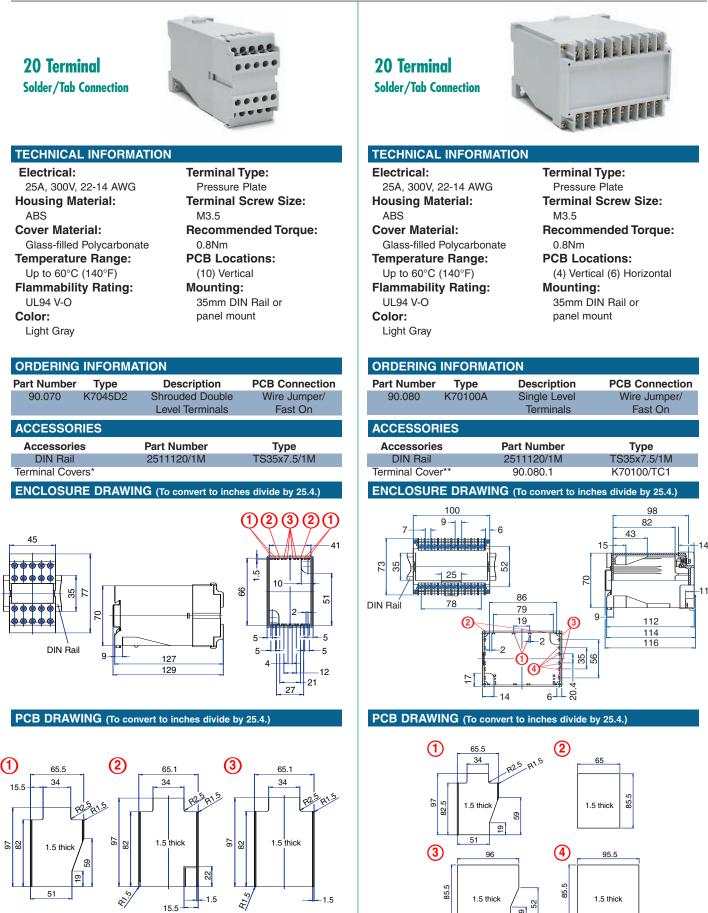
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





PCB DRAWING (To convert to inches divide by 25.4.)





11

unusable space

* Note: Integral Terminal Covers.

1.5

15.5

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1.5

1.5 thick

83.5

** Note: Need two Terminal Covers.

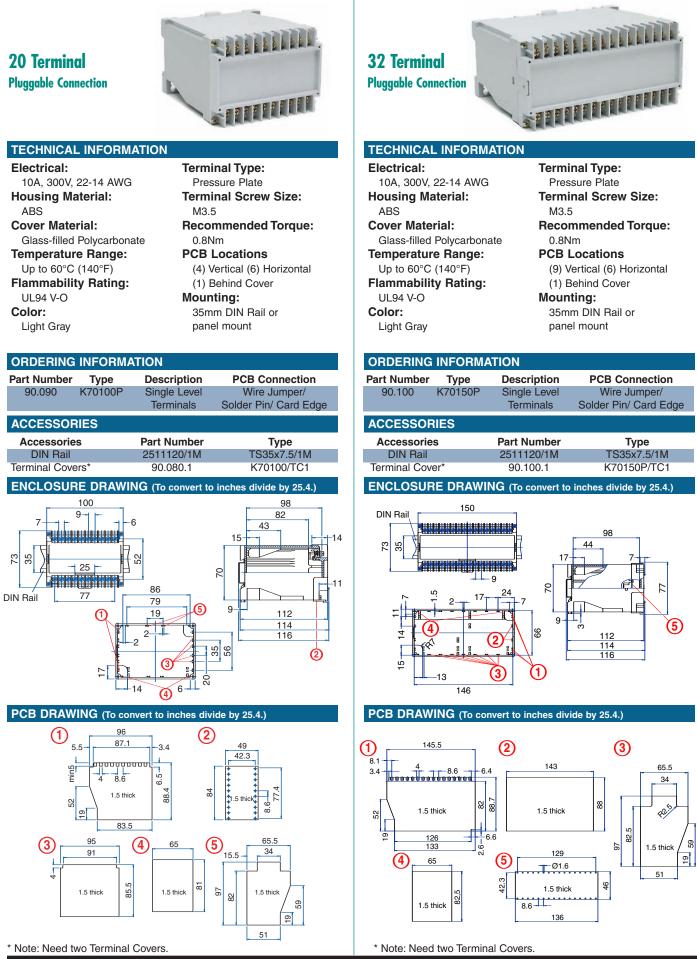
52

19

1.5 thick

unusable space

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Economical, compact KO4070 enclosures are supplied as easy to assemble kits. They are ideal for housing I/O circuits, relays, timers and other small devices. Each kit consists of two identical housing half shells and 4 to 16 machine solderable terminals with standard or extended length pins.

MATERIALS

Housing Shell: Polycarbonate, 10% Glass Filled Terminal: Tinned Bronze Terminal Screw: Chromated Steel

Temperature Rating:

125°C (257°F) UL94 VO Standard Color: Light Gray

PROTECTION

KO4070 enclosures have an IP20 rating (finger protected) and meet VBG4 and other European accident prevention requirements.

CONSTRUCTION

The KO4070 enclosures consist of two housing shells that snap together, and sectional, snap-together terminals. The maximum preassembled number of terminals are part of the enclosure kit. Potting is not recommended. Enclosures with removable center cover sections are available upon request.

BOARD PLACEMENT

Each enclosure can accept two boards, each up to 1.5mm (.0625 in.) thick, inserted vertically (parallel to the DIN rail) facing the terminals. These boards can be machine soldered to the terminals. Enclosure types KO4074 through KO4079, accept larger boards that can be screwed to the sidewalls of the housing shells (vertically, perpendicular to the DIN rail) using molded-in standoffs and 2 screws. Boards mounted on the sides can be 1mm (.04 in.) thick and require a wire jumper connection.

TERMINALS

Box clamp design terminal blocks are used with the KO4070 series enclosures. Wire(s) to be terminated are squeezed between the bottom of the clamp and the busbar for reliable, gastight connections. The terminal blocks can be machine soldered to the board in the same step as the other components to save time and labor. Enclosures with extended length pins are available to increase enclosure cavity for large components.

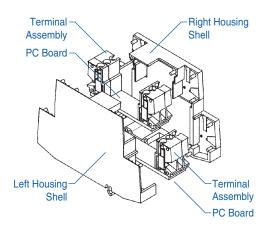
All terminals have funnel shaped wire openings to eliminate wire fraying. The terminal screws can be turned with a flat tip or a #1 or #2 Philips screwdriver.

MOUNTING

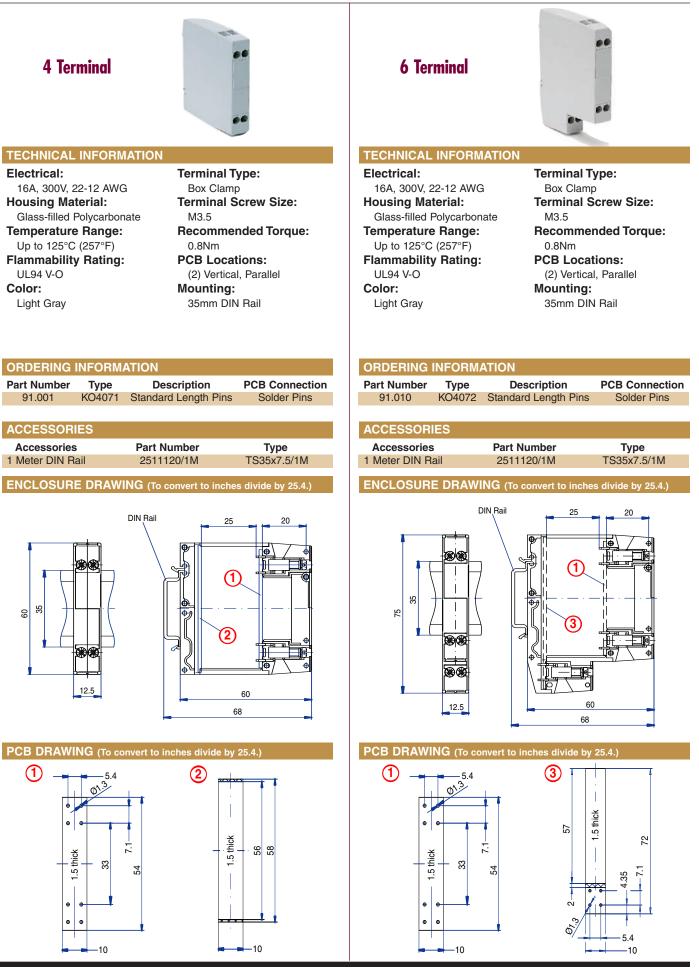
The KO4070 series have integral mounting feet that snap onto standard 35mm DIN rail. They cannot be panel mounted.

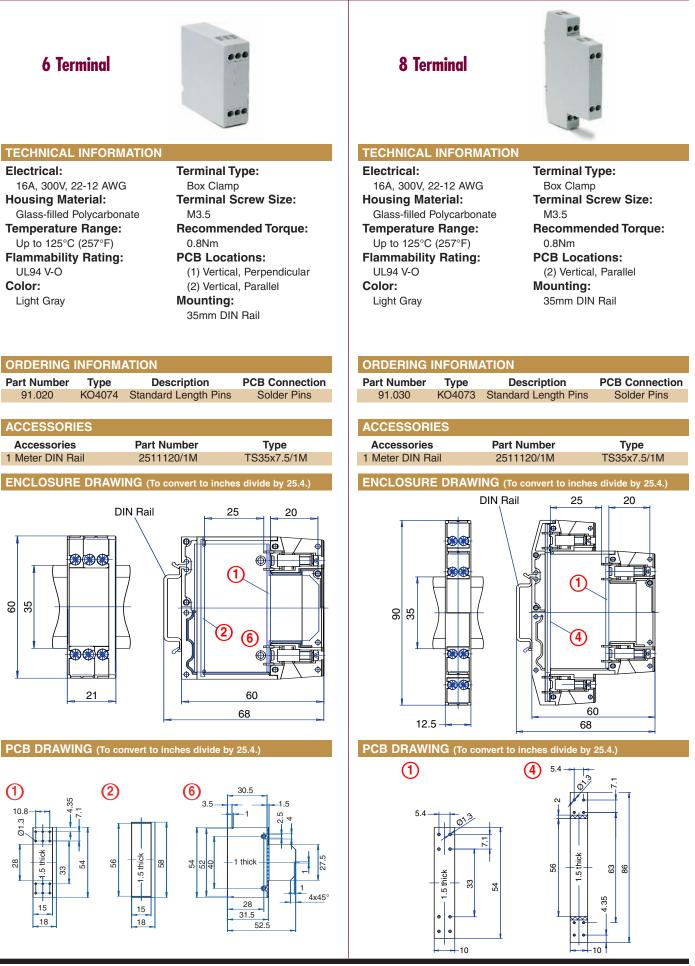
MARKING

Silk screen or attach label to the face of the enclosure.



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8 Terminal



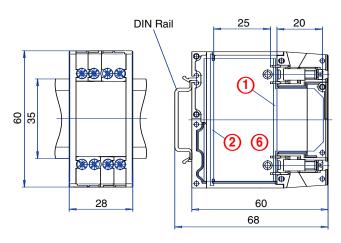
TECHNICAL INFORMATION

Electrical: 16A, 300V, 22-12 AWG **Housing Material:** Glass-filled Polycarbonate **Temperature Range:** Up to 125°C (257°F) Flammability Rating: UL94 V-O Color: Light Gray

Terminal Type: Box Clamp **Terminal Screw Size:** M3.5 **Recommended Torque:** 0.8Nm **PCB Locations:** (2) Vertical, Perpendicular (2) Vertical, Parallel Mounting: 35mm DIN Rail

ORDERING INFORMATION							
Part Number Type Description PCB Connection							
91.040 KO4077 Standard Length Pins		Solder Pins					
ACCESSORIES							
Accessories Part Number Type							
1 Meter DIN Rail		2511120/1M	TS35x7.5/1M				

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)

(1)(2) (6) 30.5 1.5 thick 1.5 8 27.5 90 80 40 52 40 33 2 thick 4x45° 28 20 Ø1.3 20 31.5 26 52.5

9 Terminal



TECHNICAL INFORMATION

Electrical: 16A, 300V, 22-12 AWG **Housing Material:** Glass-filled Polycarbonate **Temperature Range:** Up to 125°C (257°F) Flammability Rating: UL94 V-O Color: Light Gray

Terminal Type: Box Clamp **Terminal Screw Size:** M3.5 **Recommended Torque:** 0.8Nm **PCB Locations:** (1) Vertical, Perpendicular (2) Vertical, Parallel Mounting: 35mm DIN Rail

Type

TS35x7.5/1M

ORDERING INFORMATION

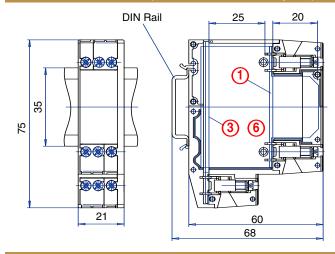
Part Number	Туре	Description	PCB Connection	
91.050	KO4075	Standard Length Pins	Solder Pins	

ACCESSORIES	
Accessories	F
1 Meter DIN Rail	

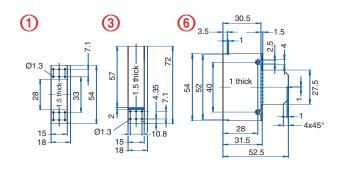
Part Number

2511120/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



12 Terminal	12 Terminal
TECHNICAL INFORMATIONElectrical: 16A, 300V, 22-12 AWG Housing Material: Glass-filled PolycarbonateTerminal Type: Box ClampHousing Material: Glass-filled PolycarbonateM3.5Temperature Range: Up to 125°C (257°F)M3.5Flammability Rating: UL94 V-O0.8NmUL94 V-O(1) Vertical, Perpendicular (2) Vertical, ParallelLight Gray35mm DIN Rail	TECHNICAL INFORMATIONElectrical: 16A, 300V, 22-12 AWGTerminal Type: Box ClampHousing Material: Glass-filled PolycarbonateTerminal Screw Size: M3.5Temperature Range: Up to 125°C (257°F)M3.5Flammability Rating: UL94 V-OPCB Locations: (2) Vertical, Perpendicular (2) Vertical, ParallelLight GrayMounting: 35mm DIN Rail
ORDERING INFORMATION Part Number Type Description PCB Connection 91.060 KO4076 Standard Length Pins Solder Pins ACCESSORIES Part Number Type 1 Meter DIN Rail 2511120/1M TS35x7.5/1M	ORDERING INFORMATION Part Number Type Description PCB Connection 91.070 KO4078 Standard Length Pins Solder Pins ACCESSORIES Part Number Type 1 Meter DIN Rail 2511120/1M TS35x7.5/1M
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)	ENCLOSURE DRAWING (To convert to inches divide by 25.4.)
	DIN Rail g_{1} g_{2} g_{2} g_{3} g_{60} g_{6
PCB DRAWING (To convert to inches divide by 25.4.)	PCB DRAWING (To convert to inches divide by 25.4.)
(1) (4) (1)	(1) (3) (6) (3) (6) (3) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7

Altech

16 Terminal



TECHNICAL INFORMATION

Electrical: 16A, 300V, 22-12 AWG Housing Material: Glass-filled Polycarbonate Temperature Range: Up to 125°C (257°F) Flammability Rating: UL94 V-O Color: Light Gray Terminal Type: Box Clamp Terminal Screw Size: M3.5 Recommended Torque: 0.8Nm PCB Locations: (2) Vertical, Perpendicular (2) Vertical, Parallel Mounting: 35mm DIN Rail

ORDERING Part Number 91.080	NFORM/ Type KO4079	ATION Descrip Standard Le	PCB Connection Solder Pins		
ACCESSORI	ES				
Accessories 1 Meter DIN Ra		Part Numb 2511120/1		Type TS35x7.5/1M	
ENCLOSURI	E DRAWI	NG (To conve	ert to inche	s divide by 25.4.)	
PCB DRAWI	NG (To co	nvert to inches	s divide by	25.4.)	
(1) 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4	(4) Ø1.3 95 1.3	16.2 5.4 F	6 3.5 75 6 75 75 75 75 75 75 75 75 75 75 75 75 75	30.5 -1 .5 -1	



Versatile, compact enclosures are ideal for applications with space constraints and for mounting within large international style enclosures with 45mm (1.77 in.) cutouts, such as Altech's EK and AK series nonmetallic enclosures. Small to medium in size, KU4000 enclosures offer 8 to 64 terminals for field wire connections. Pressure plate or spring cage terminals are standard. The KU4000 series are equipped with double level terminals which provide a maximum number of external connections in a minimum amount of space. Standard enclosures are supplied as kits, containing the base, cover and the maximum number of terminals.

MATERIALS

Housing

Housing Shell: Polycarbonate, 10% Glass Filled Base: Polycarbonate, 10% Glass Filled

Terminals

Terminal Pins: Tinned Steel Pressure Plate: Chromated Steel Terminal Screws: Chromated Steel Spring Clamps: Stainless Steel

Temperature Rating: 110°C (230°F) UL94VO Standard Color: Light Gray

PROTECTION

KU4000 enclosures have an IP20 rating (finger protected) and meet VBG4 and other European accident prevention requirements.

CONSTRUCTION

components can be

mounted inside.

The KU4000 series housings are supplied as unassembled kits.

Each kit consists of a flat base, a housing cover and 8, 16, 24, 32, 48 or 64 terminals. Double level terminals keep the enclosure size to a minimum, and yet, due to the innovative housing design, relatively large



The terminals are machine solderable and have straight or right angle pins, depending on enclosure type (Type C has straight pins, Type B has right angle pins). We can also supply enclosures with fewer than the maximum number of terminals, please contact us with your requirements.

The KU4000 series are available in five widths, and are supplied with terminals in three standard positions:

- Terminals on top and bottom
- Terminals on one side only
- Terminals at both ends, the center area has no terminals.

Cover plugs are available as accessories and can be plugged into unused screw holes and wire entries. Plugs are offered as sets, consisting of one screw-hole cover and one wire entry cover *(Refer to Accessories in the Ordering Pages)*.

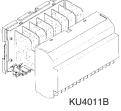
Integral printed circuit board guides are molded into the housing cover to save time when inserting boards. They also prevent misconnections and keep the boards from moving.

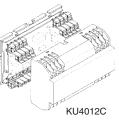
Printed circuit boards can be mounted in three ways:

- •Horizontally, parallel with the base
- •Vertically, perpendicular to the base
- •Vertically, parallel with the DIN rail

One large board can be mounted against the base of the enclosure (parallel with the base) using terminals with straight solder pins. Boards can

also be mounted vertically (perpendicular to the base) by using terminals with right angle solder pins, or vertically (parallel with the DIN rail) by using a wire jumper connection. (*Refer to the Ordering Pages*).







The face of the cover is 45mm (1.77 in.) high, and can be mounted into standard DIN distribution systems which have 45mm cutouts like Altechs EK and AK series of industrial enclosures. Mount the KU4000 enclosures together with circuit breakers and other DIN rail mount devices which also meet



EK Series Industrial Enclosure

the 45mm standard. Removal of the housing cover is possible for service and repair after disconnecting the wires. KU4000 covers cannot be potted without taking special steps.

TERMINALS

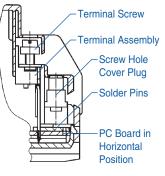
Pressure plate terminals are standard for the KU4000 enclosure and ensure a vibration proof connection. The pressure plate, which is captive to the terminal screw, automatically rises when the screw is loosened. One or two wires of equal or different sizes up to 2.5mm² (14 AWG) can be terminated in each terminal. The grooved corners of the pressure plate ensure positive retention of the wires. The flat bottom of the terminal extends to the inside of the enclosure and provides the terminal-to-board connection. The terminal screws can be turned by a flat tip or a #2 Philips screwdriver.

The KU4000 series is also available with spring cage terminals. The terminal is opened by appling

pressure with a screwdriver to open the clamp. Once the wire is inserted, the screwdriver is removed, creating a vibration proof connection to the wire.

TERMINAL-TO-BOARD CONNECTIONS

The KU4000 series offers several fixed terminal-to-board connection possibilities. (Refer to the Ordering Pages for connection types.)



Wire Jumper connections can be made by soldering a wire jumper between the center hole of the right angle solder pins and the printed circuit board(s). Upon soldering, the board is installed into the enclosure complete with terminals and other components. All KU4000 terminals have Machine Solderable Pins, which can be machine soldered to the board(s) in the same step as the other components, saving assembly time.

MOUNTING

The KU4000 enclosures snap onto standard 35mm DIN rail or can be panel mounted. Mount one or several enclosures together, or mix them with other DIN rail mounted devices such as terminal blocks, circuit breakers, etc. The choice is yours.

MARKING

The KU4000 series have large marking areas on the front of the cover.

ACCESSORIES

- Cover Plugs for Screw Hole and Wire Entries
- Screws for Mounting Printed Circuit Board
- Pull-Out Panel Mounting Tabs
- 35mm DIN Rail

CUSTOMIZATION

We can supply the KU4000, series enclosure kits with the exact number of terminals to meet your requirements. Enclosures can also be customized with cutouts and holes. Custom colors and special markings are also available.



Enclosure Mounting Procedures

DIN Rail Mounting

The top of the enclosure base has notches molded onto the sides. The bottom of the base has one spring-loaded tab that is factory installed into a molded guide for DIN rail mounting.

When mounting, tilt the bottom of the enclosure slightly away from the rail until the notches grab onto the top flange of the DIN rail. Push the bottom of the enclosure forward towards the DIN rail. The spring-loaded tab will snap onto the bottom of the rail and hold the enclosure firmly in place.



To remove the enclosure from the DIN rail, insert a screwdriver into the exposed slot in the tab and pull the tab down. Pull enclosure forward and remove from the rail.

Panel Mounting

To mount enclosures on a panel or any flat surface, at least one tab must be in place on the top and on the bottom of the enclosure base in the panel mount position. Standard enclosures are supplied with one tab on the bottom for DIN rail mounting.

Install one or more additional tabs *(see Accessories in the Ordering Pages)* into molded tab guides on the back of the enclosure base. Move the pre-installed bottom tab from the DIN rail position to the panel mount position.

To move the tab, insert a screwdriver under the spring pin, lift it and pull the tab forward until it extends approximately 6mm(.25 in.) from the enclosure. Release pin and lock the tab in the panel mount position.

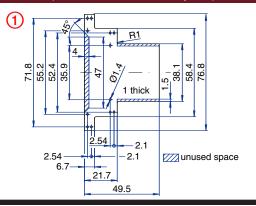
We can supply the enclosures already set up for panel mounting if desired. *(Please specify when ordering)*.

8 Terminal Vertical PCB Screw Clamp TECHNICAL INFORMATION Electrical: 16A, 300V, 22-14 AWG Housing Material: Glass-filled Polycarbonate	8 Terminal Horizontal PCB Screw Clamp Description TECHNICAL INFORMATION Electrical: 16A, 300V, 22-14 AWG Housing Material: Glass-filled Polycarbonate
Temperature Range: Up to 125°C (257°F)Recommended Torque: 0.8NmFlammability Rating: UL94 V-OMax. PCB's: (1) VerticalColor: Light GrayMounting: 35mm DIN Rail or optional panel mounting*	Temperature Range: Up to 125°C (257°F)Recommended Torque: 0.8NmFlammability Rating: UL94 V-OMax. PCB's: (1) HorizontalColor: Light GrayMounting: 35mm DIN Rail or optional panel mounting*
ORDERING INFORMATION Part Number Type Description PCB Connection 91.201 KU4001B Right Angle Pins Machine Solder/ Wire Jumper	ORDERING INFORMATIONPart NumberTypeDescriptionPCB Connection91.202KU4001CStraight PinsMachine Solder
AccessoriesPart NumberType1 Meter DIN Rail2511120/1MTS35x7.5/1MScew-hole and91.201.1SHPCbree-Entry Cover Plug Set*********************************	Accessories Part Number Type 1 Meter DIN Raii 2511120/1M TS35x7.5/1M Screw-hole and 91.201.1 SHPC Wire-Entry Cover Plug Set ************************************
PCB DRAWING (To convert to inches divide by 25.4.) $ \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$	PCB DRAWING (To convert to inches divide by 25.4.)

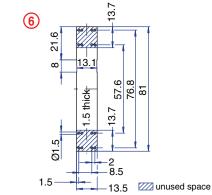
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8 Terminal Vertical PCB Spring Clamp			8 Terminal Horizontal PCB Spring Clamp		THE R	
TECHNICAL INFORMATIO	ON		TECHNICAL	INFORMA		
Electrical: 10A, 300V, 26-14 AWG Housing Material: Glass-filled Polycarbonate Temperature Range: Up to 125°C (257°F) Flammability Rating: UL94 V-O Color: Light Gray	Terminal T Spring Ca Terminal S - Recomme - Max. PCB? (1) Vertica Mounting: 35mm DIN	ge Clamp icrew Size: nded Torque: s:	Electrical: 10A, 300V, 2 Housing Mat Glass-filled F Temperature Up to 125°C Flammability UL94 V-O Color: Light Gray	6-14 AWG erial: Polycarbonat Range: (257°F)	Terminal Spring C Terminal e – Recomm – Max. PCE (1) Horiz Mounting 35mm D	age Clamp Screw Size: ended Torque: 3's: ontal
ORDERING INFORMATIO		5	ORDERING I	NEORMAT	•	
Part Number Type 91.501 KU4037B F ACCESSORIES	Description Right Angle Pins	PCB Connection Machine Solder/ Wire Jumper	Part Number 91.502	Type KU4037C ES	Description Straight Pins	PCB Connection Machine Solder
1 Meter DIN Rail 25	n t Number 511120/1M 93.001.5	Type TS35x7.5/1M PMA/KU	Accessories 1 Meter DIN Ra *Panel Mount Ta	ail	Part Number 2511120/1M 93.001.5	Type TS35x7.5/1M PMA/KU
		s divide by 25.4.)	ENCLOSURE 6 6	17.5	G (To convert to incl	46 46 53 53 58 61

PCB DRAWING (To convert to inches divide by 25.4.)



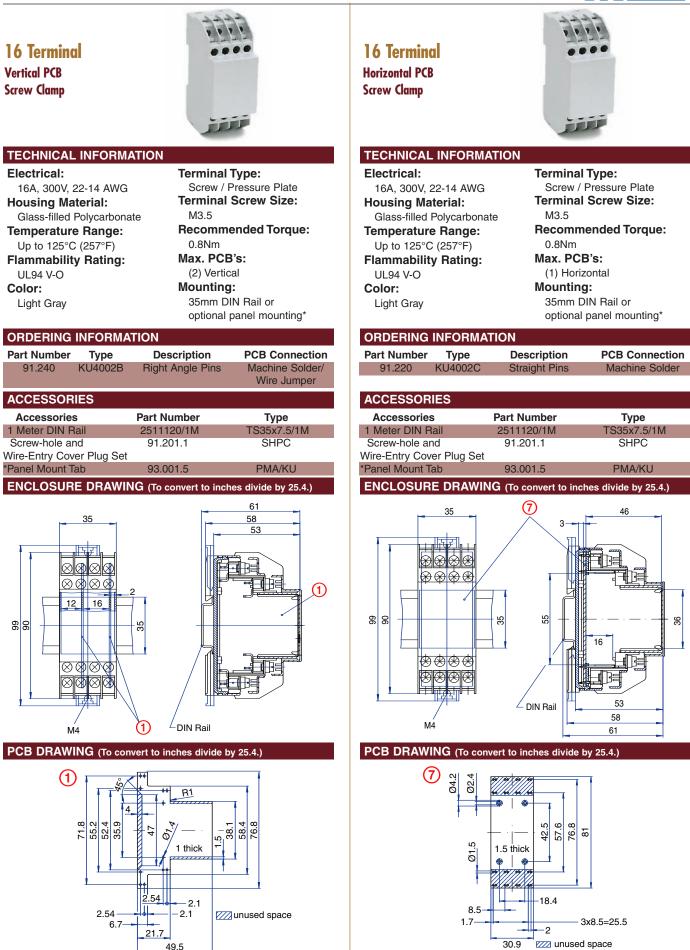
PCB DRAWING (To convert to inches divide by 25.4.)



8 Terminal Tall Vertical PCB Screw Clamp	8 Terminal Tall Vertical PCB Spring Clamp
TECHNICAL INFORMATIONElectrical:Terminal Type:16A, 300V, 22-14 AWGScrew / Pressure PlateHousing Material:Terminal Screw Size:Glass-filled PolycarbonateM3.5Temperature Range:Recommended Torque:Up to 125°C (257°F)0.8NmFlammability Rating:Max. PCB's:UL94 V-O(1) VerticalColor:Mounting:	TECHNICAL INFORMATION Electrical: Terminal Type: 10A, 300V, 26-14 AWG Spring Cage Clamp Housing Material: Terminal Screw Size: Glass-filled Polycarbonate - Temperature Range: Recommended Torque: Up to 125°C (257°F) - Flammability Rating: Max. PCB's: UL94 V-O (1) Vertical Color: Mounting:
Light Gray 35mm DIN Rail or optional panel mounting* ORDERING INFORMATION Part Number Type Description PCB Connection 91.203 KU4001BT Right Angle Pins Machine Solder/Wire Jumper ACCESSORIES Part Number Type 1 Meter DIN Rail 2511120/1M TS35x7.5/1M Screw-hole and 91.201.1 SHPC	Light Gray 35mm DIN Rail or optional panel mounting* ORDERING INFORMATION Part Number Type Description PCB Connection 91.503 KU4037BT Right Angle Pins Machine Solder/Wire Jumper ACCESSORIES Part Number Type 1 Meter DIN Rail 2511120/1M TS35x7.5/1M *Panel Mount Tab
Wire-Entry Cover Plug Set *Panel Mount Tab 93.001.5 PMAKU ENCLOSURE DRAWING (To convert to inches divide by 25.4.) Image: state sta	
PCB DRAWING (To convert to inches divide by 25.4.)	PCB DRAWING (To convert to inches divide by 25.4.)

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16 Terminal Vertical PCB Spring Clamp	16 Terminal Horizontal PCB Spring Clamp
TECHNICAL INFORMATIONElectrical:Terminal Type:10A, 300V, 26-14 AWGSpring Cage ClampHousing Material:Terminal Screw Size:Glass-filled Polycarbonate-Temperature Range:Recommended Torque:Up to 125°C (257°F)-Flammability Rating:Max. PCB's:UL94 V-O(2) VerticalColor:Mounting:Light Gray35mm DIN Rail or	TECHNICAL INFORMATIONElectrical:Terminal Type:10A, 300V, 26-14 AWGSpring Cage ClampHousing Material:Terminal Screw Size:Glass-filled Polycarbonate-Temperature Range:Recommended Torque:Up to 125°C (257°F)-Flammability Rating:Max. PCB's:UL94 V-O(1) HorizontalColor:Mounting:Light Gray35mm DIN Rail or
Part Number Type Description PCB Connection 91.540 KU4038B Right Angle Pins Machine Solder/ Wire Jumper ACCESSORIES Part Number Type 1 Meter DIN Rail 2511120/1M TS35x7.5/1M *Panel Mount Tab	Description PCB Connection 91.520 KU4038C Straight Pins Machine Solder Accessories Part Number Type 1 Meter DIN Rail 2511120/1M TS35x7.5/1M *Panel Mount Tab
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)	ENCLOSURE DRAWING (To convert to inches divide by 25.4.)
PCB DRAWING (To convert to inches divide by 25.4.)	PCB DRAWING (To convert to inches divide by 25.4.)

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18.4

-2

unused space

30.9

3x8.5=25.5

8.5

1.7-

2.54

21.7

2.54 — 6.72.1

white the second second

-2.1

49.5

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16 Terminal Tall Vertical PCB Screw Clamp	16 Terminal Tall Vertical PCB Spring Clamp
TECHNICAL INFORMATION	TECHNICAL INFORMATION
Electrical:Terminal Type:16A, 300V, 22-14 AWGScrew / Pressure PlateHousing Material:Terminal Screw Size:Glass-filled PolycarbonateM3.5Temperature Range:Recommended Torque:Up to 125°C (257°F)0.8NmFlammability Rating:Max. PCB's:UL94 V-O(2) VerticalColor:35mm DIN Rail or optional panel mounting*	Electrical: Terminal Type: 10A, 300V, 26-14 AWG Spring Cage Clamp Housing Material: Terminal Screw Size: Glass-filled Polycarbonate - Temperature Range: Recommended Torque: Up to 125°C (257°F) - Flammability Rating: Max. PCB's: UL94 V-O (2) Vertical Color: Mounting: Light Gray 35mm DIN Rail or optional panel mounting*
ORDERING INFORMATION Part Number Type Description PCB Connection 91.243 KU4002BT Right Angle Pins Machine Solder/ Wire Jumper	ORDERING INFORMATION Part Number Type Description PCB Connection 91.543 KU4038BT Right Angle Pins Machine Solder/ Wire Jumper
ACCESSORIES	ACCESSORIES
AccessoriesPart NumberType1 Meter DIN Rail2511120/1MTS35x7.5/1MScrew-hole and91.201.1SHPCWire-Entry Cover Plug Set*********************************	Accessories Part Number Type 1 Meter DIN Rail 2511120/1M TS35x7.5/1M *Panel Mount Tab 93.001.5 PMA/KU ENCLOSURE DRAWING (To convert to inches divide by 25.4.)
(1)	100 97 92 82 92 82 92 92 92 92 92 92 92 92 92 92 92 92 92
PCB DRAWING (To convert to inches divide by 25.4.)	PCB DRAWING (To convert to inches divide by 25.4.)

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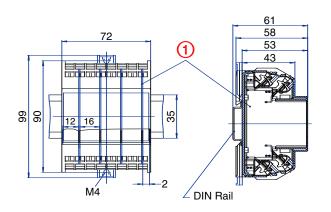
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32 Terminal Vertical PCB Screw Clamp	32 Terminal Horizontal PCB Screw Clamp
TECHNICAL INFORMATIONElectrical: 16A, 300V, 22-14 AWGTerminal Type: Screw / Pressure PlateHousing Material: Glass-filled PolycarbonateScrew / Pressure PlateTemperature Range: Up to 125°C (257°F)M3.5Temmability Rating: UL94 V-O0.8NmUL94 V-O(4) VerticalColor: Light Gray35mm DIN Rail or optional panel mounting*	TECHNICAL INFORMATION Electrical: Terminal Type: 16A, 300V, 22-14 AWG Screw / Pressure Plate Housing Material: Screw / Pressure Plate Glass-filled Polycarbonate M3.5 Temperature Range: 0.8Nm Up to 125°C (257°F) 0.8Nm Flammability Rating: 0.1 Horizontal, (2) Vertical UL94 V-O (1) Horizontal, (2) Vertical Light Gray 35mm DIN Rail or optional panel mounting*
ORDERING INFORMATION Part Number Type Description PCB Connection 91.280 KU4003B Right Angle Pins Machine Solder/ Wire Jumper ACCESSORIES Part Number Type 1 Meter DIN Rail 2511120/1M TS35x7.5/1M Screw-hole and 91.201.1 SHPC Wire-Entry Cover Plug Set *Panel Mount Tab 93.001.5 ENCLOSURE DRAWING (To convert to inches divide by 25.4.)	ORDERING INFORMATION Part Number Type Description PCB Connection 91.260 KU4003C Straight Pins Machine Solder Accessories Part Number Type 1 Meter DIN Rail 2511120/1M TS35x7.5/1M Screw-hole and 91.201.1 SHPC Wire-Entry Cover Plug Set *Panel Mount Tab 93.001.5 PMA/KU ENCLOSURE DRAWING (To convert to inches divide by 25.4.)
7 6 6 5 6 5 7 6 7 6 1 1 1 1 1 1	B M4 B B CIN Rail CIN CIN CIN CIN CIN CIN CIN CIN CIN CIN
PCB DRAWING (To convert to inches divide by 25.4.) $ \begin{array}{c} $	PCB DRAWING (To convert to inches divide by 25.4.) 8 7 7 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 7 8 8 7 8 8 7 8 8 7 8 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8

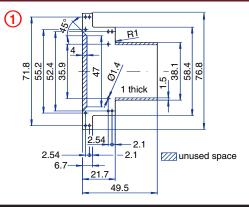
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32 Terminal Vertical PCB Spring Clamp			
TECHNICAL INFORM	ATION		
Electrical: 10A, 300V, 26-14 AWG Housing Material: Glass-filled Polycarbon. Temperature Range: Up to 125°C (257°F) Flammability Rating: UL94 V-O Color: Light Gray	i Spring C Terminal ate – Recomm – Max. PCI (4) Vertion 35mm D	Terminal Type: Spring Cage Clamp Terminal Screw Size: - Recommended Torque: - Max. PCB's: (4) Vertical Mounting: 35mm DIN Rail or optional panel mounting*	
ORDERING INFORMA			
Part Number Type 91.580 KU4039B	Description Right Angle Pins	PCB Connection Machine Solder/ Wire Jumper	
ACCESSORIES			
Accessories	Part Number	Туре	
1 Meter DIN Rail *Panel Mount Tab	2511120/1M 93.001.5	TS35x7.5/1M PMA/KU	

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)

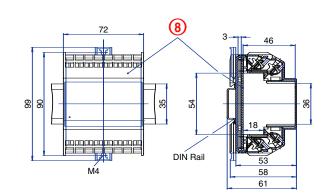


32 Termin Horizontal PCI Spring Clamp			A VALUE OF CALLS	
TECHNICAL	INFORMAT	ION		
Electrical:		Termina	I Туре:	
10A, 300V,	26-14 AWG	Spring	Cage Clamp	
Housing Ma	terial:	Termina	Terminal Screw Size:	
Glass-filled	Polycarbonate	-		
Temperatur	e Range:	Recomn	nended Torque:	
Up to 125°C	C (257°F)	_		
Flammabilit	y Rating:	Max. PC	B's:	
UL94 V-O		(1) Hori	zontal	
Color:		Mountin	g:	
Light Gray		35mm [DIN Rail or	
		optional	panel mounting*	
ORDERING	INFORMATI	ON		
Part Number	Туре	Description	PCB Connection	
91.560	KU4039C	Straight Pins	Machine Solder	
ACCESSOR	IES			

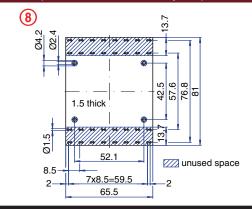
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ACCESSORIES		
Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab	93.001.5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



32 Terminal Tall Vertical PCB Screw Clamp		e e e e e e e	32 Terminal Tall Vertical PCB Spring Clamp		The second second
TECHNICAL INFORM	ATION		TECHNICAL INFORM	IATION	
TECHNICAL INFORMATIONElectrical:Terminal Type:16A, 300V, 22-14 AWGScrew / Pressure PlateHousing Material:Terminal Screw Size:Glass-filled PolycarbonateM3.5Temperature Range:Recommended Torque:Up to 125°C (257°F)0.8NmFlammability Rating:Max. PCB's:UL94 V-O(4) VerticalColor:35mm DIN Rail or optional panel mounting*		Electrical: Terminal Type: 10A, 300V, 26-14 AWG Spring Cage Clamp Housing Material: Terminal Screw Size: Glass-filled Polycarbonate - Temperature Range: Recommended Torque Up to 125°C (257°F) - Flammability Rating: Max. PCB's: UL94 V-O (4) Vertical Color: Mounting: Light Gray 35mm DIN Rail or optional panel mounting'			
ORDERING INFORMA	TION		ORDERING INFORM	ATION	
Part Number Type 91.283 KU4003BT	Description Right Angle Pins	PCB Connection Machine Solder/ Wire Jumper	Part Number Type 91.583 KU4039B	Description T Right Angle Pins	PCB Connection Machine Solder/ Wire Jumper
ACCESSORIES Accessories 1 Meter DIN Rail Screw-hole and Vire-Entry Cover Plug Set Panel Mount Tab ENCLOSURE DRAWIN	Part Number 2511120/1M 91.201.1 93.001.5 VG (To convert to inch	Type TS35x7.5/1M SHPC PMA/KU res divide by 25.4.)	ACCESSORIES Accessories 1 Meter DIN Rail *Panel Mount Tab ENCLOSURE DRAW	Part Number 2511120/1M 93.001.5	Type TS35x7.5/1M PMA/KU nes divide by 25.4.)
72 16 0000000000000000000000000000000000	16 10 2 DIN Rail			35	
PCB DRAWING (To cor	2.54	y 25.4.)	PCB DRAWING (To co	2.54 2.1	by 25.4.)

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88

88

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16 Terminal Vertical PCB Screw Clamp	16 Terminal Horizontal PCB Screw Clamp
TECHNICAL INFORMATIONElectrical:Terminal Type:16A, 300V, 22-14 AWGScrew / Pressure PlateHousing Material:Screw / Pressure PlateGlass-filled PolycarbonateTerminal Screw Size:M3.5M3.5Temperature Range:0.8NmUp to 125°C (257°F)0.8NmFlammability Rating:0.2NmUL94 V-O(2) VerticalColor:35mm DIN Rail or optional panel mounting*	TECHNICAL INFORMATIONElectrical: 16A, 300V, 22-14 AWGTerminal Type: Screw / Pressure PlateHousing Material: Glass-filled PolycarbonateScrew / Pressure PlateTemperature Range: Up to 125°C (257°F)M3.5Up to 125°C (257°F)0.8NmFlammability Rating: UL94 V-O0.8NmUL94 V-O(1) Horizontal, (2) VerticalColor: Light Gray35mm DIN Rail or optional panel mounting*
ORDERING INFORMATION Part Number Type Description PCB Connection 91.250 KU4090B16 Right Angle Pins Machine Solder/ Wire Jumper	ORDERING INFORMATION Part Number Type Description PCB Connection 91.230 KU4090C16 Straight Pins Machine Solder
	Accessories Part Number Type 1 Meter DIN Rail 2511120/1M TS35x7.5/1M Screw-hole and 91.201.1 SHPC Wire-Entry Cover Plug Set Panel Mount Tab 93.001.5 PMA/KU COUNT Table 2000 Convert to inches divide by 25.4. Convert to inches divide by 25.4. Output to the second
PCB DRAWING (To convert to inches divide by 25.4.) $ \begin{array}{c} \hline \hline $	PCB DRAWING (To convert to inches divide by 25.4.)

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49.5

would be a constrained space

16 Terminal Vertical PCB Screw Clamp with vent slots	16 Terminal Horizontal PCB Screw Clamp with vent slots		
TECHNICAL INFORMATIONElectrical:Terminal Type:16A, 300V, 22-14 AWGScrew / Pressure PlateHousing Material:Screw / Pressure PlateGlass-filled PolycarbonateM3.5Temperature Range:M3.5Up to 125°C (257°F)0.8NmFlammability Rating:Max. PCB's:UL94 V-O(3) VerticalColor:Mounting:Light Gray35mm DIN Rail or optional panel mounting*	TECHNICAL INFORMATION Electrical: Terminal Type: 16A, 300V, 22-14 AWG Screw / Pressure Plate Housing Material: Screw / Pressure Plate Glass-filled Polycarbonate M3.5 Temperature Range: 0.8Nm Up to 125°C (257°F) 0.8Nm Flammability Rating: Max. PCB's: UL94 V-O (1) Horizontal, (2) Vertical Mounting: 35mm DIN Rail or optional panel mounting*		
ORDERING INFORMATION Part Number Type Description PCB Connection 91.255 KU4090B16V Right Angle Pins Machine Solder/ Wire Jumper ACCESSORIES Part Number Type 1 Meter DIN Rail 2511120/1M TS35x7.5/1M Screw-hole and 91.201.1 SHPC Wire-Entry Cover Plug Set *Panel Mount Tab 93.001.5	ORDERING INFORMATION Part Number Type Description PCB Connection 91.235 KU4090C16V Straight Pins Machine Solder ACCESSORIES Accessories Part Number Type 1 Meter DIN Rail 2511120/1M TS35x7.5/1M Screw-hole and 91.201.1 SHPC Wire-Entry Cover Plug Set *Panel Mount Tab 93.001.5		
ENCLOSURE DRAWING (to convert to inches divide by 25.4.)	ENCLOSURE DRAWING (To convert to inches divide by 25.4.)		
PCB DRAWING (To convert to inches divide by 25.4.)	PCB DRAWING (To convert to inches divide by 25.4.)		

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PCB Connection Machine Solder

24 Terminal Vertical PCB Screw Clamp			24 Terminal Horizontal PCB Screw Clamp		TTERSTER	
TECHNICAL INFORMATI Electrical: 16A, 300V, 22-14 AWG Housing Material: Glass-filled Polycarbonate Temperature Range: Up to 125°C (257°F) Flammability Rating: UL94 V-O Color: Light Gray	Terminal Screw / F Terminal S M3.5 Recomme 0.8Nm Max. PCB (6) Vertica Mounting 35mm DI	ressure Plate Screw Size: ended Torque: 's: al :	TECHNICAL IN Electrical: 16A, 300V, 22-1 Housing Materi Glass-filled Poly Temperature Ra Up to 125°C (25 Flammability R UL94 V-O Color: Light Gray	4 AWG al: carbonate ange: 57°F)	Terminal Typ Screw / Pres Terminal Scr M3.5 Recommend 0.8Nm Max. PCB's: (1) Horizonta Mounting: 35mm DIN R optional page	sure Plate r ew Size: l ed Torque: al (2) Vertical Rail or
ORDERING INFORMATION Part Number Type 91.290 KU4090B24 I ACCESSORIES	DN Description Right Angle Pins	PCB Connection Machine Solder/ Wire Jumper		ypeDes090C24Strate		PCB Connection Machine Solde
Accessories Pa	art Number 2511120/1M 91.201.1 93.001.5 (To convert to incho	Type TS35x7.5/1M SHPC PMA/KU es divide by 25.4.)	Accessories 1 Meter DIN Rail Screw-hole and Wire-Entry Cover P *Panel Mount Tab ENCLOSURE D	Part No 25111 91.20 Nug Set 93.00	20/1M 7 01.1 01.5	Type TS35x7.5/1M SHPC PMA/KU divide by 25.4.)
		43 54 59 62		105	26 3-3 16 19 19 19	2 max. 2 29
PCB DRAWING (To conver	37.7 6.3 7 7 7 7 7 7 7 7 7 7 6.3 7 7 7 6.3 7 7 7 7 7 7 7 6.3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	-	PCB DRAWING	1.5 thick		1.5 thick

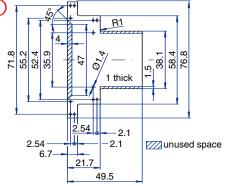
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45

48 Terminal Vertical PCB Screw Clamp	*****	48 Terminal Horizontal PCB Screw Clamp	*******	
TECHNICAL INFORMA	TION	TECHNICAL INFORMA	TION	
Electrical: 16A, 300V, 22-14 AWG Housing Material: Glass-filled Polycarbonate Temperature Range: Up to 125°C (257°F) Flammability Rating: UL94 V-O Color: Light Gray	Recommended Torque: 0.8Nm Max. PCB's: (6) Vertical Mounting: 35mm DIN Rail or optional panel mounting*	Electrical: 16A, 300V, 22-14 AWG Housing Material: Glass-filled Polycarbonat Temperature Range: Up to 125°C (257°F) Flammability Rating: UL94 V-O Color: Light Gray	Recommended T 0.8Nm Max. PCB's: (1) Horizontal, (2) Mounting: 35mm DIN Rail or optional panel mo	Size: orque: Vertical
ORDERING INFORMAT		ORDERING INFORMAT		
Part Number Type 91.330 KU4090B48	Description PCB Connection Right Angle Pins Machine Solder/ Wire Jumper	Part NumberType91.310KU4090C48		Connection iine Solder
ACCESSORIES		ACCESSORIES		
1 Meter DIN Rail Screw-hole and Wire-Entry Cover Plug Set *Panel Mount Tab	Part Number Type 2511120/1M TS35x7.5/1M 91.201.1 SHPC 93.001.5 PMA/KU G (To convert to inches divide by 25.4.)	Accessories 1 Meter DIN Rail Screw-hole and Wire-Entry Cover Plug Set *Panel Mount Tab	2511120/1M TS35 91.201.1 SF	/pe x7.5/1M IPC A/KU
	1 1 1 1 1 1 1 1 1 1 1 1 1 1	105 105 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		max.2-29
	62		DIN Rail	-
PCB DRAWING (To conv	≠¥I	PCB DRAWING (To conv	DIN Rail 62	

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48 Terminal Vertical PCB Spring Clamp			48 Termin Horizontal PCE Spring Clamp				
			TEOLINICAL				
TECHNICAL INFORM/ Electrical: 10A, 300V, 26-14 AWG Housing Material: Glass-filled Polycarbona Temperature Range: Up to 125°C (257°F) Flammability Rating: UL94 V-O Color:	Terminal T Spring Ca Terminal S ate – Recomme – Max. PCB (6) Vertica	Terminal Type: Spring Cage Clamp Terminal Screw Size: — Recommended Torque: — Max. PCB's: (6) Vertical Mounting:		TECHNICAL INFORMATI Electrical: 10A, 300V, 26-14 AWG Housing Material: Glass-filled Polycarbonate Temperature Range: Up to 125°C (257°F) Flammability Rating: UL94 V-O Color:		Terminal Type: Spring Cage Clamp Terminal Screw Size:	
Light Gray	35mm DI		Light Gray			35mm DIN Rail or	
		anel mounting*	ORDERING			panel mounting*	
ORDERING INFORMA Part Number Type 91.530 KU4040B	Description Right Angle Pins	PCB Connection Machine Solder/ Wire Jumper	Part Number 91.510	Type KU4040C	Description Straight Pins	PCB Connection Machine Solder	
ACCESSORIES			ACCESSOR	IES			
Accessories	Part Number	Туре	Accessorie	-	Part Number	Туре	
1 Meter DIN Rail Panel Mount Tab	2511120/1M 93.001.5	TS35x7.5/1M PMA/KU	1 Meter DIN F *Panel Mount T		2511120/1M 93.001.5	TS35x7.5/1M PMA/KU	
ENCLOSURE DRAWIN		es divide by 25.4.)	8 8	105	IG (To convert to include the inclusion of the inclusion	3 46 9 18 18	
PCB DRAWING (To con	hvert to inches divide by	/ 25.4.)		ING (To con	vert to inches divide t	oy 25.4.)	



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42.5 57.6 76.8 81

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white the second second

1.5 thick

86.4

15x8.5=93.5

99.5

44 S

Ø1.5

8.5

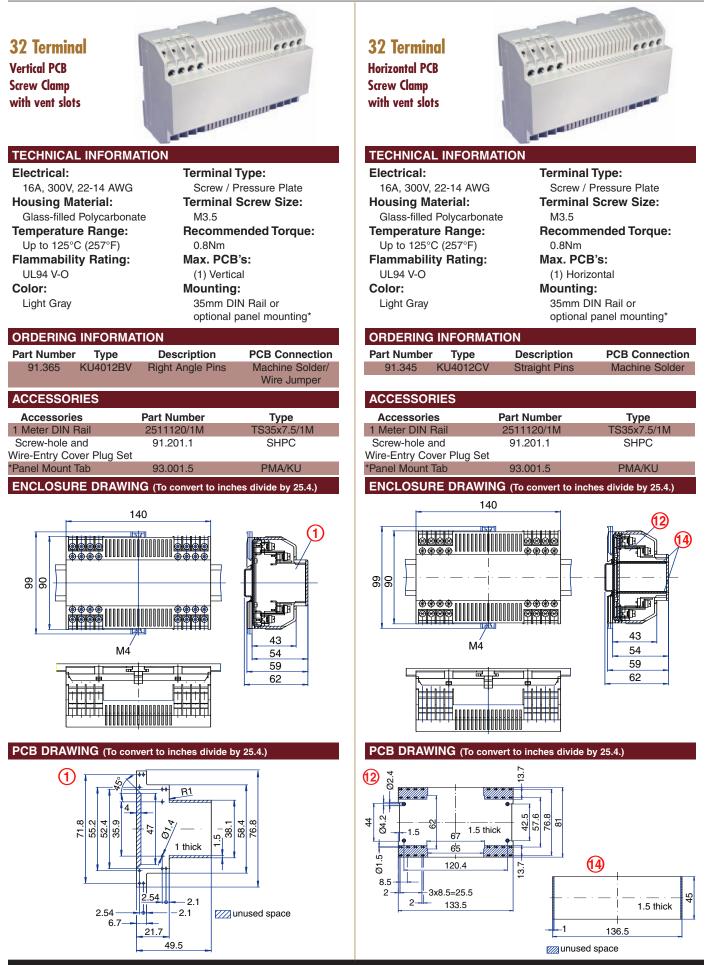
2-

32 Terminal Vertical PCB Screw Clamp terminals on one side only	32 Terminal Horizontal PCB Screw Clamp terminals on one side only
TECHNICAL INFORMATIONElectrical:Terminal Type:16A, 300V, 22-14 AWGScrew / Pressure PlateHousing Material:Screw / Pressure PlateGlass-filled PolycarbonateM3.5Temperature Range:M3.5Up to 125°C (257°F)0.8NmFlammability Rating:Max. PCB's:UL94 V-O(8) VerticalColor:Mounting:Light Gray35mm DIN Rail or optional panel mounting*	TECHNICAL INFORMATIONElectrical:Terminal Type:16A, 300V, 22-14 AWGScrew / Pressure PlateHousing Material:Terminal Screw Size:Glass-filled PolycarbonateM3.5Temperature Range:0.8NmUp to 125°C (257°F)0.8NmFlammability Rating:Max. PCB's:UL94 V-O(1) Horizontal, (2) VerticalColor:35mm DIN Rail or optional panel mounting*
ORDERING INFORMATION Part Number Type Description PCB Connection 91.320 KU4011B Right Angle Pins Machine Solder/ Wire Jumper ACCESSORIES Part Number Type 1 Meter DIN Rail 2511120/1M TS35x7.5/1M Screw-hole and 91.201.1 SHPC Wire-Entry Cover Plug Set *Panel Mount Tab 93.001.5 PMA/KU ENCLOSURE DRAWING (To convert to inches divide by 25.4.)	ORDERING INFORMATION Part Number Type Description PCB Connection 91.300 KU4011C Straight Pins Machine Solder Accessories Part Number Type 1 Meter DIN Rail 2511120/1M TS35x7.5/1M Screw-hole and 91.201.1 SHPC Wire-Entry Cover Plug Set *Panel Mount Tab 93.001.5 PMA/KU ENCLOSURE DRAWING (To convert to inches divide by 25.4.)
CEB DRAWING (to convert to inches divide by 25.4. OTHER DIA CONVERT TO INCHES 	PCB DRAWING (To convert to inches divide by 25.4.) 133.5 120.4 133.5 120.4 $1.5 thick$

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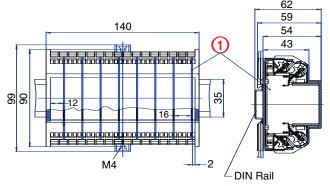
32 Terminal	32 Terminal
Vertical PCB	Horizontal PCB
Screw Clamp	Screw Clamp
terminals in corners only	terminals in corners only
TECHNICAL INFORMATIONElectrical:16A, 300V, 22-14 AWG16A, 300V, 22-14 AWGScrew / Pressure PlateHousing Material:Screw / Pressure PlateGlass-filled PolycarbonateM3.5Temperature Range:0.8NmUp to 125°C (257°F)0.8NmFlammability Rating:0.8NmUL94 V-O(4) VerticalColor:35mm DIN Rail or optional panel mounting*Light Gray35mm DIN Rail or optional panel mounting*Part NumberTypeDescription91.360KU4012BRight Angle PinsMachine Solder/ Wire Jumper	TECHNICAL INFORMATIONElectrical:Terminal Type:16A, 300V, 22-14 AWGScrew / Pressure PlateHousing Material:Terminal Screw Size:Glass-filled PolycarbonateM3.5Temperature Range:0.8 NmUp to 125°C (257°F)Max. PCB's:Flammability Rating:0.8 NmUL94 V-OMax. PCB's:Color:35mm DIN Rail or optional panel mounting*DERING INFORMATIONPCB Connection91.340TypeDescriptionPCB Connection91.340KU4012CStraight PinsMachine Solder
ACCESSORIES	ACCESSORIES
Accessories Part Number Type	Accessories Part Number Type
1 Meter DIN Rail 2511120/1M TS35x7.5/1M	1 Meter DIN Rail 2511120/1M TS35x7.5/1M
Screw-hole and 91.201.1 SHPC	Screw-hole and 91.201.1 SHPC
Wire-Entry Cover Plug Set	Wire-Entry Cover Plug Set
*Panel Mount Tab 93.001.5 PMA/KU	*Panel Mount Tab 93.001.5 PMA/KU
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)	ENCLOSURE DRAWING (To convert to inches divide by 25.4.)
Convert to inches divide by 25.4.)	Convert to inches divide by 25.4.)
PCB DRAWING (To convert to inches divide by 25.4.)	PCB DRAWING (To convert to inches divide by 25.4.)



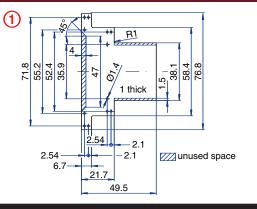
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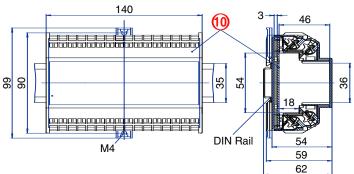
64 Terminal Vertical PCB Screw Clamp	I PCB			
TECHNICAL INFORMA Electrical: 16A, 300V, 22-14 AWG Housing Material: Glass-filled Polycarbona Temperature Range: Up to 125°C (257°F) Flammability Rating: UL94 V-O Color: Light Gray	Terminal Type: Screw / Pressure Plate Terminal Screw Size:	TECHNICAL INFORMAT Electrical: 16A, 300V, 22-14 AWG Housing Material: Glass-filled Polycarbonate Temperature Range: Up to 125°C (257°F) Flammability Rating: UL94 V-O Color: Light Gray	TON Terminal Type: Screw / Pressure Plate Terminal Screw Size:	
ORDERING INFORMA Part Number Type 91.400 KU4013B ACCESSORIES Accessories Accessories 1 Meter DIN Rail Screw-hole and	TIONDescriptionPCB ConnectionRight Angle PinsMachine Solder/ Wire JumperPart NumberType2511120/1MTS35x7.5/1M91.201.1SHPC		ON Description PCB Connection Straight Pins Machine Solder Part Number Type 2511120/1M TS35x7.5/1M 91.201.1 SHPC	
8 6 k		Wire-Entry Cover Plug Set *Panel Mount Tab ENCLOSURE DRAWING 140 140 88 88 88 88 135 135 135 135 135 135 135 135		
PCB DRAWING (To con	vert to inches divide by 25.4.)	PCB DRAWING (To convert	81 81	

64 Terminal Vertical PCB Spring Clamp			64 Terminal Horizontal PCB Spring Clamp			
TECHNICAL INFORM	ATION		TECHNICAL II	NFORMAT	ION	
Electrical: 10A, 300V, 26-14 AWG Housing Material: Glass-filled Polycarbona Temperature Range: Up to 125°C (257°F) Flammability Rating: UL94 V-O Color: Light Gray	Terminal Type: Spring Cage Clamp Terminal Screw Size: ate – Recommended Torque: – Max. PCB's: (8) Vertical Mounting: 35mm DIN Rail or optional panel mounting*		Electrical: 10A, 300V, 26-14 AWG Housing Material: Glass-filled Polycarbonate Temperature Range: Up to 125°C (257°F) Flammability Rating: UL94 V-O Color: Light Gray		Terminal Type: Spring Cage Clamp Terminal Screw Size:	
ORDERING INFORMA	TION		ORDERING IN	IFORMATI	ON	
Part Number Type 91.600 KU4041B	Description Right Angle Pins	PCB Connection Machine Solder/ Wire Jumper	Part Number 91.610 K	Type U4041C	Description Straight Pins	PCB Connection Machine Solder
ACCESSORIES			ACCESSORIE	S		
Accessories 1 Meter DIN Rail *Panel Mount Tab	Part Number 2511120/1M 93.001.5	Type TS35x7.5/1M PMA/KU	Accessories 1 Meter DIN Rail *Panel Mount Tab	1	Part Number 2511120/1M 93.001.5	Type TS35x7.5/1M PMA/KU
ENCLOSURE DRAWIN	IG (To convert to inch	es divide by 25.4.)	ENCLOSURE	DRAWING	(To convert to incl	nes divide by 25.4.)

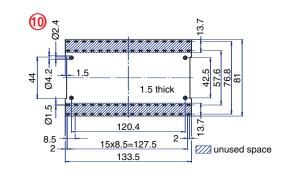


PCB DRAWING (To convert to inches divide by 25.4.)





PCB DRAWING (To convert to inches divide by 25.4.)





Ideal for industrial applications. Small to large in size, KO4700 enclosures can accommodate 8 to132 terminals for field wire connections. Series KO4700 enclosures can be customized to the exact number of terminals required. Standard enclosures are equipped with the maximum number of terminal strips and terminals. The KO4700 series are available with two types of terminations for connecting external wires. The Pressure Plate type terminals, with a center line spacing of 9mm (.35 in.) and the Box Clamp design, which has a 5mm (.19 in.) center line spacing for much higher density.

MATERIALS

Housing

Housing Shell: Polycarbonate, 10% Glass Filled Cover: Polycarbonate, 10% Glass Filled Cover Panel: Clear Polycarbonate or Glass Filled Polycarbonate

Terminals

Pressure Plate: Zinc Plated, Chromated Steel Terminal Screw: Zinc Plated, Chromated Steel Clamp: Nickel Plated Brass Busbar: Tin Plated Bronze Connector Contact: Beryllium Copper, Tin Plated (gold plating available)

Temperature Rating:

125°C (257°F), UL94VO Housing Shell Color: Black Terminal Cover Color: Tan

PROTECTION

KO4700 enclosures have an IP20 rating (finger protected) and meet VBG4 and other European accident prevention requirements.

CONSTRUCTION

The KO4700 enclosure series consists of a black housing shell and a tan cover with integral terminals and terminal-to-board connections. They are supplied unassembled. The housing shell has molded printed circuit board guides to save time when inserting printed circuit boards, prevent misconnections and to keep the boards from moving. Integral tabs on the bottom of the shell further help to hold boards in place, eliminating lateral movement. KO4700 housing shells can be potted.

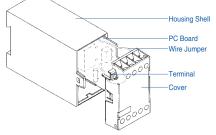


Printed circuit boards can be mounted in three ways:

- Behind the Front Cover
- Horizontally
- Vertically

Depending on the enclosure type, one board can be mounted directly

behind the front cover (parallel to the DIN rail).Boards can also be mounted horizontally (parallel to the DIN rail) or vertically (perpendicular to the DIN rail). (Refer to the Ordering Pages for board patterns and location of board guides.)

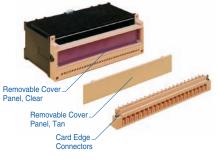


The housing cover snaps onto the housing shell. Two keyed tabs lock the cover firmly in place. Removal of the cover is possible for service and repair.

COVER DESIGNS

Single piece, tan color covers are typically used with the smaller enclosures. They incorporate terminals and connections to the inside of the enclosure. In some of the smaller enclosures, the cover doubles as a plug.

A printed circuit board can be mounted directly behind the front cover. This board is ideal for mounting components used for setting, adjusting and monitoring such as switches, potentiometer, LEDs and LCDs. There is no interferance with any other boards mounted within the enclosure. Modular covers consist of a one-piece tan frame with matching flat front panel. Some versions have a front cover panel that is removable and offered in matching tan or clear.The front covers can be custom imprinted or marking plates can



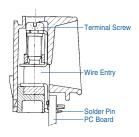
be produced and installed behind the transparent front cover panel.

TERMINAL DESIGNS

Select from Pressure Plate or Box Clamp terminals with wire protectors, and fixed or pluggable terminal-to-board connections. (Please refer to the Ordering Pages). Removable fixed or pluggable terminal strips can be replaced by terminal plugs if not all of the external connections of the standard enclosure are needed. The terminal screws used with both the pressure plate and box clamp designs can be operated with a flat tip or a #1 or #2 Philips type screwdriver.

Pressure Plate Termination

This type of terminal consists of a pressure plate (captive to the terminal screw) and the terminal bottom. The pressure plate rises automatically when the screw is loosened. One or two wires, of equal or different sizes up to 2.5mm² (14 AWG) can be terminated. The grooved corners of the pressure plate ensure positive retention of wire(s). The flat bottom of the terminal extends to the inside of the enclosure and connects the terminal to the board(s) inside.



Box Clamp Termination

The box clamp terminal accepts wires up to 4mm² (12 AWG). When the terminal screw is tightened, the serrated bottom of the wire protector pushes the wire to be terminated against the serrated busbar. The busbar extends to the inside of the enclosure to provide the terminal-to-board connection.

TERMINAL-TO-BOARD CONNECTIONS

The KO4700 Series offers fixed and pluggable terminal-to-board connection possibilities. (Please refer to the Ordering Pages on the following pages for your selection.)

Fixed Connections

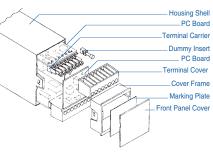
Fixed terminal-to-board connections can be made by Wire Jumper, Fast On tabs, Solder tabs, or Machine Solderable Pins.

Fast On tabs, 2.8mm (.11in.) accept industry standard Fast On connectors. Use with

wire jumpers to connect to board(s).

Wire Jumper

connections can also be made by soldering a wire jumper between the center hole of the Fast On tab and the printed circuit board(s).



Solder Tab can be hand soldered to the board.

Machine Solderable Pins can be machine soldered to the board in the same step as the other components, saving assembly time. The metal parts of the terminals are supplied as separate strips which snap into the terminal housing after soldering.

Pluggable Connections

The pluggable terminal strips of the KO4700 series fit across the width of the enclosure and plug directly into the board(s) by using a Card Edge connector. Enclosures equipped with pressure plate terminals also provide Solder Tabs for terminal-to-board connections when mounting an additional board directly behind the front cover. A Wire Jumper can be soldered to these tabs as well.

For better retention, the strips have captive screws at each end that insert into brass bushings, molded into the housing shell. Up to four terminal strips can be used per enclosure. The pluggable versions are ideal whenever quick connections and replacement of boards and devices is important. They also reduce the danger of misconnected wires and downtime.

MOUNTING

The KO4700 Series enclosures are designed to be mounted on standard 35 x 7.5mm DIN rail but will also fit on the 35 x15mm DIN rail. The extra high enclosures should be mounted on the deeper, 35×15 mm DIN rail. (Refer to the Ordering Pages on the following pages to determine the correct size rail for the enclosure you select.)

KO4700 series enclosures can also be panel mounted using pull-out tabs on the base of the enclosure. One tab is factory installed on each enclosure. Up to a



total of 6 pull-out mounting tabs can be installed (See Accessories) (Refer to page 19 for mounting instructions.)

MARKING

KO4700 enclosures have a flat center area on the cover for marking and mounting of components. Several types have removable front cover panels, which can be marked at a separate location. Imprinted marking plates can be used in conjunction with the transparent, removable cover panel.

ACCESSORIES

- Terminal Cover Strips
- Pull-Out Panel Mounting Tabs
- Screws for Mounting Printed Circuit Board
- 35 x 7.5mm DIN Rail
- 35 x 15mm DIN Rail

CUSTOMIZATION

Enclosures can be customized to the exact number of terminals needed. We can punch, drill or cut custom cutouts and holes for potentiometers, switches, LEDs or LDCs. Custom colors and special markings are also available. Please call us for further information.

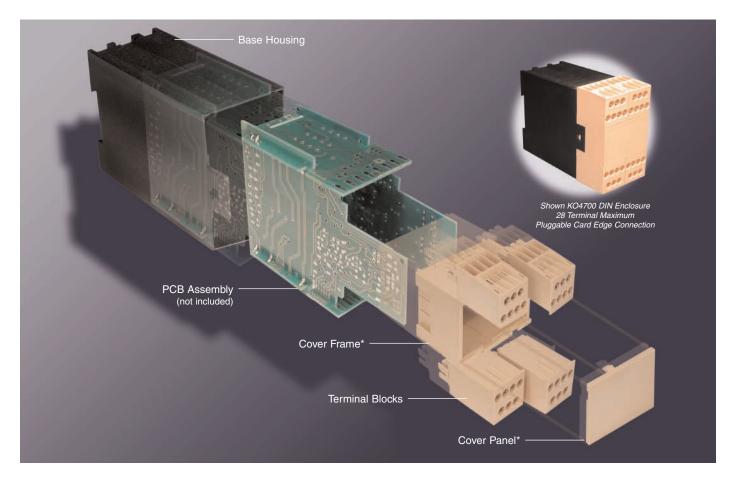




MODULAR ENCLOSURES

A new group of modular enclosures has been added to the KO4700 series. These enclosures can be ordered in a variety of terminal arrangements allowing for many different customized configurations. Terminal sets are available in 3, 4 and 7 pole blocks as well as blank blocks without terminals. High Current terminals are also available on some models. This new modular terminal design allows anywhere from 0 to 56 terminals for field wire connections.

The KO4700 modular enclosures have the same design features of the standard series as well as the same materials. The terminals are of the box clamp style. The standard terminals feature pluggable connections while solder connections are used on the high current terminals. Printed circuit board placement is horizontal (parallel to the DIN rail) or vertical (perpendicular to the DIN rail).



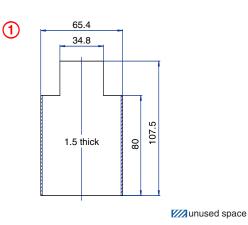
Ordering Information

The modular enclosures are ordered in separate pieces. A complete enclosure consists of a base, cover frame*, cover panel* and the appropriate number of terminal blocks. Standard terminal blocks can be ordered as blank blocks with no termination points or with 3, 4, or 7 terminations. High current terminal blocks are available on some models. Theses blocks can also be ordered as blank blocks with no terminations or with 3 terminations. (Please refer to the Ordering Pages on the following pages for a list of how many blocks should be ordered per enclosure).

* High current versions have one piece center cover section instead of this two piece design.

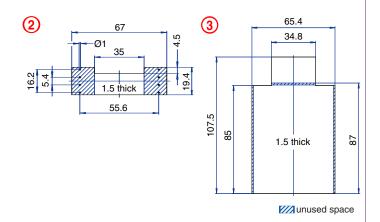
8 Terminal Solder Connection		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 Term Solder/Te Connection	ab		
TECHNICAL INFORMA Electrical: 16A, 300V, 22-12 AWG Housing Material: Glass-filled Polycarbonat Cover Material: Glass-filled Polycarbonat Temperature Range: Up to 125°C (257°F) Flammability Rating: UL94 V-O (V-2 Clear Pan Color: Black Housing with Tan C	Termina Box Cla Termina e M3.5 Recomm e 0.8Nm Max. PC (2) Verti (1) Behi nel) Mountin 35mm [mp I Screw Size: nended Torque: B's: cal nd cover	Housing M Glass-filled Cover Mate Glass-filled Temperatu Up to 125° Flammabili UL94 V-O Color:	, 22-12 AWG laterial: d Polycarbon: erial: d Polycarbon: re Range: °C (257°F)	Termina Box Cl Termina ate M3.5 Recom ate 0.8Nm Max. P((2) Ver Mountin anel) 35mm optiona	amp al Screw Size: mended Torque: CB's: tical
90.201.2 KO4712 ACCESSORIES	Description Solid Cover Panel, Tan Removable Cover Panel, Clear Panel, Clear Part Number 2511120/1M 93.001.2	PCB Connection Machine Solderable Pins Machine Solderable Pins Machine Solderable Pins Type TS35x7.5/1M PMA hes divide by 25.4.)	ORDERING Part Numbe 90.202 90.202.1 90.202.2 ACCESSO Access 1 Meter D *Panel Mo ENCLOSU	r Type KO4712B KO4712B KO4712B RIES ories IN Rail	Description Solid Cover Removable Cover Panel, Tan Removable Cover Panel, Clear Part Number 2511120/1M 93.001.2	Jumper
3.8 20 4.8 Din Rail		118 121	38	.8 Din Rail		118 121

PCB DRAWING (To convert to inches divide by 25.4.)



-4.8 Din Rail 118 121

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10 Terminal Spring Clamp



TECHNICAL INFORMATION

Solder/Tab Connection

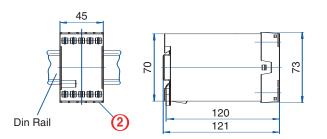
Electrical: 16A, 300V, 24-14 AWG Housing Material: Glass-filled Polycarbonate Cover Material: Glass-filled Polycarbonate Temperature Range: Up to 125°C (257°F) Flammability Rating: UL94 V-O Color: Black Housing with Tan Cor Terminal Type: Spring Cage Clamp Terminal Screw Size:

Recommended Torque:

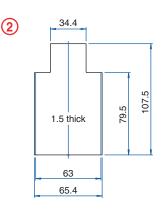
Max. PCB's: (2) Vertical Mounting: 35mm DIN Rail

Black Housing with Tan Cover **ORDERING INFORMATION** Part Number Description **PCB** Connection Type 90.215 KO4761 Solid Cover Wire Jumper/ Fast On ACCESSORIES Accessories Part Number Туре 1 Meter DIN Rail 2511120/1M TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



10 Terminal Solder/Tab Connection

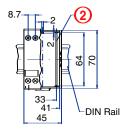
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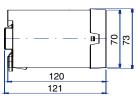
TECHNICAL INFORMATION Electrical: Terminal Type: 25A, 300V, 22-14 AWG Screw / Pressure Plate **Housing Material: Terminal Screw Size:** Glass-filled Polycarbonate M3.5 **Cover Material: Recommended Torque:** Glass-filled Polycarbonate 0.8Nm **Temperature Range:** Max. PCB's: Up to 125°C (257°F) (2) Vertical **Flammability Rating:** Mounting: UL94 V-O 35mm DIN Rail Color: Black Housing with Tan Cover **ORDERING INFORMATION**

Part Number Description **PCB** Connection Type KO4762 Solid Cover 90.230 Wire Jumper/ Fast On ACCESSORIES Accessories Part Number Туре 1 Meter DIN Rail 2511120/1M TS35x7.5/1M

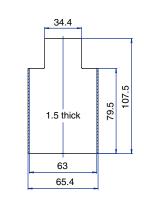
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



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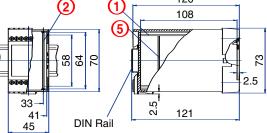
PCB DRAWING (To convert to inches divide by 25.4.)



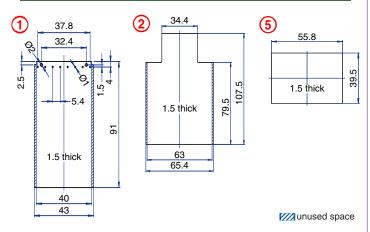
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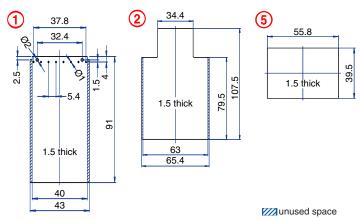
16 Terr Solder Connectio			04818969 06818969	16 Term Solder/Tab Connection TECHNICAL)		0000000
Electrical: 16A, 300V Housing M Glass-filler Cover Mat Glass-filler Temperatu Up to 125' Flammabil UL94 V-O Color:	(, 22-12 AWG laterial: d Polycarbon erial: d Polycarbon ire Range: °C (257°F)	Termina Box Cla Termina ate M3.5 Recomm ate 0.8Nm Max. PC (2) Verti (1) Hori unel) Mountin 35mm [mp I Screw Size: nended Torque: B's: cal zontal g:	Electrical: 16A, 300V, 2 Housing Ma Glass-filled I Cover Mater Glass-filled I Temperature Up to 125°C Flammability UL94 V-O (V Color: Black Housin	22-12 AWG terial: Polycarbona ial: Polycarbona Range: (257°F) y Rating: -2 clear pa	Termina Box Cla Termina ate M3.5 Recomn ate 0.8Nm Max. PC (2) Vert Mountin nel) 35mm I	I Screw Size: nended Torque: B's: ical
ORDERING	G INFORM	ATION		ORDERING	INFORMA	TION	
Part Numbe	71	Description	PCB Connection	Part Number	Туре	Description	PCB Connection
90.290	KO4763A	Solid Cover	Machine Solderable Pins	90.300	KO4763B	Solid Cover	Wire Jumper
90.291 90.292	KO4763A KO4763A	Removable Cover Panel, Tan Removable Cover	Machine Solderable Pins Machine		KO4763B KO4763B	Removable Cover Panel, Tan Removable Cover	Wire Jumper Wire
		Panel, Clear	Solderable Pins			Panel, Clear	Jumper
ACCESSO	RIES			ACCESSOR	IES		
Accessori	es	Part Number	Туре	Accessor	ries	Part Number	Туре
1 Meter DIN	Rail	2511120/1M	TS35x7.5/1M	1 Meter DIN	I Rail	2511120/1M	TS35x7.5/1M
ENCLOSU	RE DRAWI	NG (To convert to inc	hes divide by 25.4.)	ENCLOSUR	E DRAWII	NG (To convert to ind	ches divide by 25.4.)
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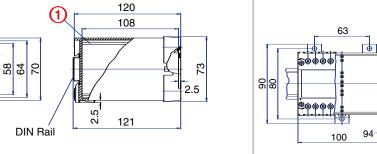
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DIN Rail

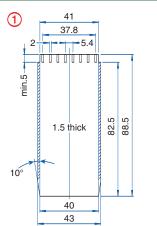
16 Terminal Pluggable Connection		4++++++++	20 Term Pluggable Connection			
TECHNICAL INF	ORMATION		TECHNICAL	. INFORM	ATION	
Electrical: 10A, 300V, 22-12 Housing Materia Glass-filled Polyc Cover Material: Glass-filled Polyc Temperature Ra Up to 125°C (257 Flammability Ra UL94 V-O (V-2 ch Color: Black Housing wi	I: Termina arbonate M3.5 Recomm arbonate 0.8Nm nge: Max. PC °°F) (2) Ver ting: (1) Ho ear panel) Mountin 35mm	amp al Screw Size: mended Torque: CB's: tical rizontal	Electrical: 10A, 300V, 3 Housing Ma Glass-filled Cover Mater Glass-filled Temperature Up to 125°C Flammabilit UL94 V-O (V Color: Black Housi	terial: Polycarbona rial: Polycarbona e Range: C (257°F) y Rating: J-2 clear pa	ate M3.5 Recomm ate 0.8Nm Max. PC (5) Verti (1) Hori nel) Mountin 35mm [Pressure Plate I Screw Size: mended Torque: B's: cal zontal behind cover
ORDERING INFO	ORMATION		ORDERING	INFORMA	TION	
Part Number Ty	De Description	PCB Connection	Part Number	Туре	Description	PCB Connection
90.320 KO47	63P Solid Cover	Card Edge	90.350	KO4718P	Solid Cover	Card Edge/
90.321 KO47 90.322 KO47	Panel, Tan	0	90.351	KO4718P KO4718P	Removable Cover Panel, Tan Removable Cover	Wire Jumper Card Edge/ Wire Jumper Card Edge/
	Panel, Clear				Panel, Clear	Wire Jumper
ACCESSORIES			ACCESSOR	IES		
Accessories 1 Meter DIN Rail	Part Number 2511120/1M	Type TS35x7.5/1M	Accesso 1 Meter DII *Panel Mount T	N Rail ab (need 2)		Type TS35x7.5/1M PMA
ENCLOSURE DR	RAWING (To convert to in	ches divide by 25.4.)	ENCLOSUR	E DRAWI	NG (To convert to inc	hes divide by 25.4.)



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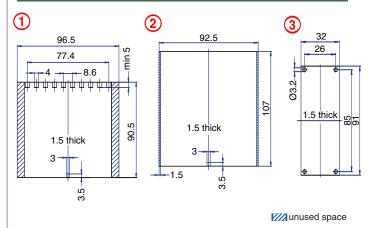
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5



22 Terminal Solder Connection



TECHNICAL INFORMATION

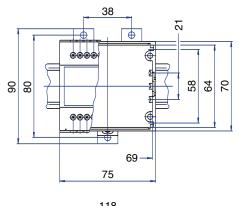
Electrical: 16A, 300V, 22-12 AWG Housing Material: Glass-filled Polycarbonate Cover Material: Glass-filled Polycarbonate Temperature Range: Up to 125°C (257°F) Flammability Rating: UL94 V-O (V-2 Clear Panel) Color: Black Housing with Tan Cover Terminal Type: Box Clamp Terminal Screw Size: M3.5 Recommended Torque: 0.8Nm Max. PCB's: (5) Vertical (1) Behind cover Mounting: 35mm DIN Rail or optional panel mounting*

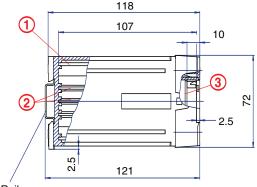
ORDERING INFORMATION

Part Number	Туре	Description	PCB Connection
90.380	KO4713A	Solid Cover	Machine
			Solderable Pins
90.381	KO4713A	Removable Cover	Machine
		Panel, Tan	Solderable Pins
90.382	KO4713A	Removable Cover	Machine
		Panel. Clear	Solderable Pins

ACCESSORIES		
Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab (need 2)	93.001.2	PMA

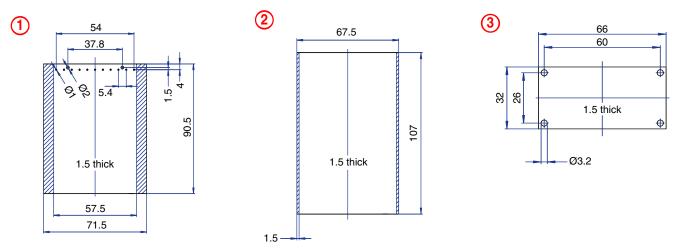
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





DIN Rail

PCB DRAWING (To convert to inches divide by 25.4.)





22 Terminal Pluggable Connection



TECHNICAL INFORMATION

Electrical:
10A, 300V, 22-12 AWG
Housing Material:
Glass-filled Polycarbonate
Cover Material:
Glass-filled Polycarbonate
Temperature Range:
Up to 125°C (257°F)
Flammability Rating:
UL94 V-O (V-2 clear panel)
Color:
Black Housing with Tan Cover

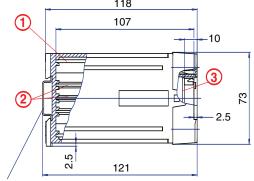
Terminal Type: Box Clamp Terminal Screw Size: M3.5 Recommended Torque: 0.8Nm Max. PCB's: (5) Vertical (1) Behind cover Mounting: 35mm DIN Rail or optional panel mounting*

ORDERING INFORMATION

Part Number	Туре	Description	PCB Connection
90.410 K	04713P	Solid Cover	Card Edge
90.411 K	04713P	Removable Cover Panel, Tan	Card Edge
90.412 K	04713P	Removable Cover Panel, Clear	Card Edge
ACCESSORIE	ES		
Accessorie	es	Part Number	Туре
1 Meter DIN	Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab (need 2)		93.001.2	PMA

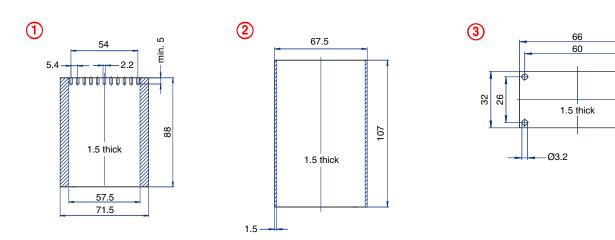
38 6 69 75 118107

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



DIN Rail

PCB DRAWING (To convert to inches divide by 25.4.)



unused space

 $\overline{\mathbf{\Phi}}$

₫

30 Terminal

Solder Connection



TECHNICAL INFORMATION

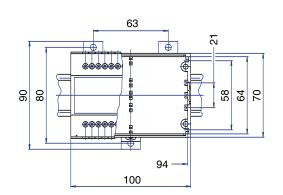
Electrical:	Т
16A, 300V, 22-12 AWG	
Housing Material:	T
Glass-filled Polycarbonate	
Cover Material:	R
Glass-filled Polycarbonate	
Temperature Range:	Μ
Up to 125°C (257°F)	
Flammability Rating:	
UL94 V-O (V-2 clear panel)	Μ
Color:	
Black Housing with Tan Cover	

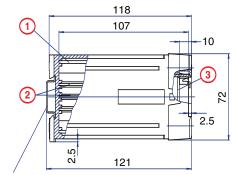
Terminal Type: Box Clamp Ferminal Screw Size: M3.5 Recommended Torque: 0.8Nm Max. PCB's: (5) Vertical (1) Behind Cover Mounting: 35mm DIN Rail or optional panel mounting*

ORDERING INFORMATION

Part Number	Туре	Description	PCB Connection
90.440	KO4717A	Solid Cover	Machine
			Solderable Pins
90.441	KO4717A	Removable Cover	Machine
		Panel, Tan	Solderable Pins
90.442	KO4717A	Removable Cover	Machine
		Panel, Clear	Solderable Pins
A005000			
ACCESSOF	(IES		
Accessorie	s	Part Number	Туре
1 Meter DIN F	Rail	2511120/1M	TS35x7.5/1M
*Panel Mount	Tab (need 2)	93.001.2	PMA

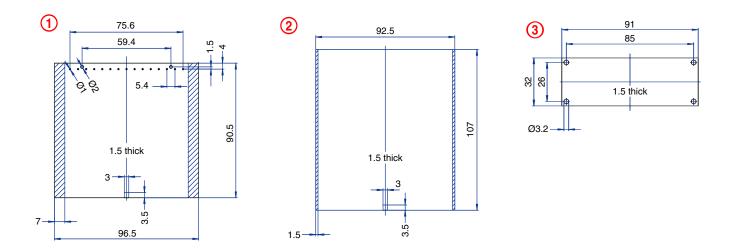
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





DIN Rail

PCB DRAWING (To convert to inches divide by 25.4.)





30 Terminal Pluggable Connection



TECHNICAL INFORMATION

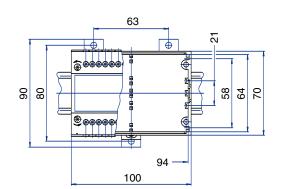
Electrical:	
10A, 300V, 22-12 AWG	
Housing Material:	
Glass-filled Polycarbonate	
Cover Material:	
Glass-filled Polycarbonate	
Temperature Range:	I
Up to 125°C (257°F)	
Flammability Rating:	
UL94 V-O (V-2 clear panel)	I
Color:	
Black Housing with Tan Cover	

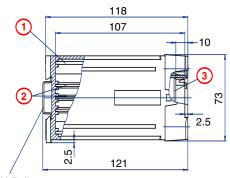
Terminal Type: Box Clamp Terminal Screw Size: M3.5 Recommended Torque: 0.8Nm Max. PCB's: (5) Vertical (1) Behind Cover Mounting: 35mm DIN Rail or optional panel mounting*

ORDERING INFORMATION

Part Number	Туре	Description	PCB Connection
90.470 KC	04717P	Solid Cover	Card Edge
90.471 KC	04717P	Removable Cover Panel, Tan	Card Edge
90.472 KC	04717P	Removable Cover Panel, Clear	Card Edge
ACCESSORIE	S		
Accessorie	s	Part Number	Туре
1 Meter DIN F	Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab	(need 2)	93.001.2	PMA

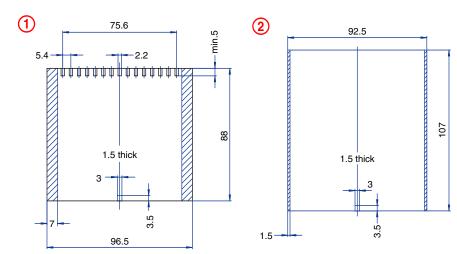
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

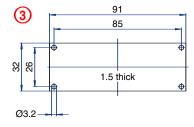




DIN Rail

PCB DRAWING (To convert to inches divide by 25.4.)





32 Terminal

Pluggable and Solder Connection



Terminal Type: Screw/ Pressure Plate Terminal Screw Size:

Recommended Torque:

M3.5

0.8Nm

Max. PCB's: (5) Vertical

Mounting:

(1) Behind cover(1) Base Mount

35mm DIN Rail or

optional panel mounting*

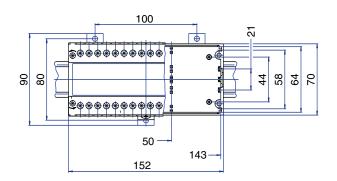
TECHNICAL INFORMATION

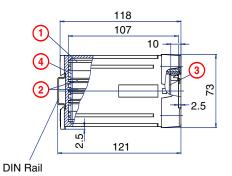
Electrical:
10A, 300V, 22-14 AWG
Housing Material:
Glass-filled Polycarbonate
Cover Material:
Glass-filled Polycarbonate
Temperature Range:
Up to 125°C (257°F)
Flammability Rating:
UL94 V-O (V-2 clear panel)
Color:
Black Housing with Tan Cover
5

ORDERING INFORMATION

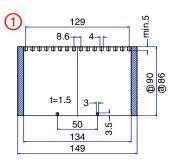
Part Number	Туре	Description	PCB Connection
90.500 k	(O4719P	Solid Cover	Card Edge/
			Wire Jumper
90.501 k	(O4719P	Removable Cover	Card Edge/
		Panel, Tan	Wire Jumper
90.502 k	(O4719P	Removable Cover	Card Edge/
		Panel, Clear	Wire Jumper
ACCESSORI	ES		
Accessories		Part Number	Туре
1 Meter DIN Rail		2511120/1M	TS35x7.5/1M
*Panel Mount Ta	ab (need 3)	93.001.2	PMA

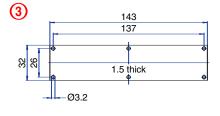
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

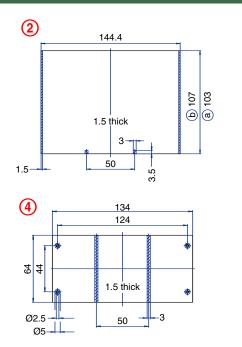




PCB DRAWING (To convert to inches divide by 25.4.)







a) with base mount PCB
b) without base mount PCB

<u>Altech</u>

42 Terminal

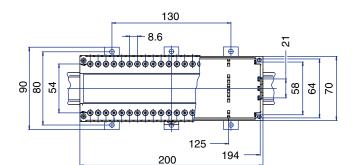
Pluggable and Solder Connection



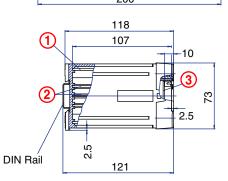
TECHNICAL INFORMATION

Electrical:	Terminal Type:
10A, 300V, 22-14 AWG	Screw/ Pressure Plate
Housing Material:	Terminal Screw Size:
Glass-filled Polycarbonate	M3.5
Cover Material:	Recommended Torque:
Glass-filled Polycarbonate	0.8Nm
Temperature Range:	Max. PCB's:
Up to 125°C (257°F)	(5) Vertical
Flammability Rating:	(1) Behind cover
UL94 V-O (V-2 clear panel)	Mounting:
Color:	35mm DIN Rail or
Black Housing with Tan Cover	optional panel mounting*
ORDERING INFORMATION	

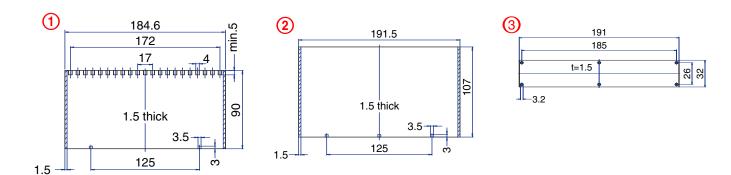
Part Number Туре Description **PCB** Connection Solid Cover 90.530 KO4720P Card Edge/ Wire Jumper 90.531 KO4720P Removable Cover Card Edge/ Panel, Tan Wire Jumper Card Edge/ 90.532 KO4720P **Removable Cover** Panel, Clear Wire Jumper ACCESSORIES Accessories Part Number Туре 1 Meter DIN Rail 2511120/1M 35x7.5/1M τs *Panel Mount Tab (need 3) 93.001.2 PMA



ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



42 Terminal

Pluggable and Solder Connection

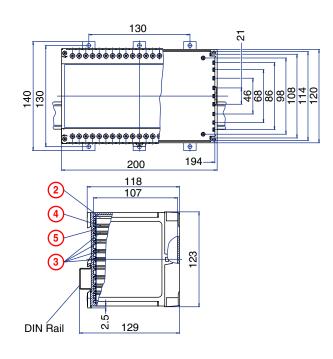


TECHNICAL INFORMATION

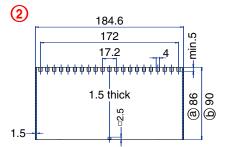
Electrical:	Terminal Type:
10A, 300V, 22-14 AWG	Screw/ Pressure Plate
Housing Material:	Terminal Screw Size:
Glass-filled Polycarbonate	M3.5
Cover Material:	Recommended Torque:
Glass-filled Polycarbonate	0.8Nm
Temperature Range:	Max. PCB's:
Up to 125°C (257°F)	(11) Vertical
Flammability Rating:	(1) Base Mount
UL94 V-O	Mounting:
Color:	35mm DIN Rail or
Black Housing with Tan Cover	optional panel mounting*
ORDERING INFORMATION	

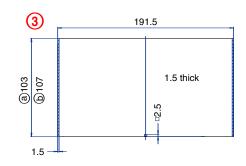
Part Number Type	Description	PCB Connection
90.560 KO4722SP	Solid Cover	Card Edge/
		Wire Jumper
ACCESSORIES		
Accessories	Part Number	Туре
1 Meter DIN Rail	CA701/15-S	TS35x15/1M
*Donal Mount Tab (need 2)	93.001.2	PMA
*Panel Mount Tab (need 3)	93.001.2	PINA

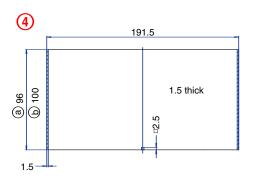
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

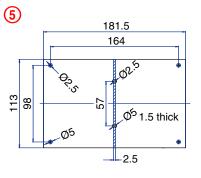


PCB DRAWING (To convert to inches divide by 25.4.)









a with base mount PCBb without base mount PCB



50 Terminal

Solder Connection



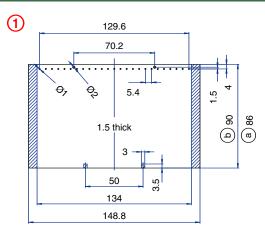
TECHNICAL INFORMATION

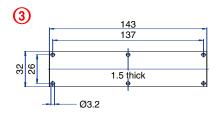
Electrical:	Terminal Type:
16A, 300V, 22-12 AWG	Box Clamp
Housing Material:	Terminal Screw Size:
Glass-filled Polycarbonate	M3.5
Cover Material:	Recommended Torque:
Glass-filled Polycarbonate	0.8Nm
Temperature Range:	Max. PCB's:
Up to 125°C (257°F)	(5) Vertical
Flammability Rating:	(1) Behind Cover
UL94 V-O (V-2 Clear Panel)	(1) Base Mount
Color:	Mounting:
Black Housing with Tan Cover	35mm DIN Rail or
-	optional panel mounting*

ORDERING INFORMATION

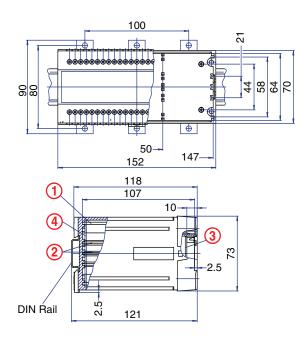
Part Number	Туре	Description	PCB Connection
90.590	KO4716A	Solid Cover	Machine Solderable Pins
90.591	KO4716A	Removable Cover Panel, Tan	Machine Solderable Pins
90.592	KO4716A	Removable Cover Panel, Clear	Machine Solderable Pins
ACCESSORIES			
Accessories		Part Number	Туре
1 Meter DI	N Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab (need 3)		93.001.2	PMA

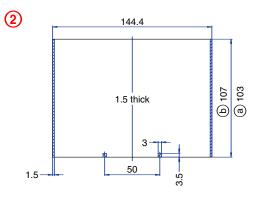
PCB DRAWING (To convert to inches divide by 25.4.)

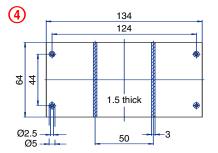




ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







a with base mount PCBwithout base mount PCB

50 Terminal

Pluggable Connection



TECHNICAL INFORMATION

Electrical: 10A, 300V, 22-12 AWG Housing Material: Glass-filled Polycarbonate Cover Material: Glass-filled Polycarbonate Temperature Range: Up to 125°C (257°F) Flammability Rating: UL94 V-O (V-2 Clear Panel) Color: Black Housing with Tan Cover Terminal Type: Box Clamp Terminal Screw Size: M3.5 Recommended Torque: 0.8Nm Max. PCB's: (5) Vertical (1) Behind cover (1) Base Mount Mounting:

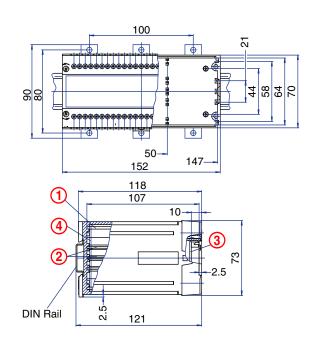
Mounting:

35mm DIN Rail or optional panel mounting*

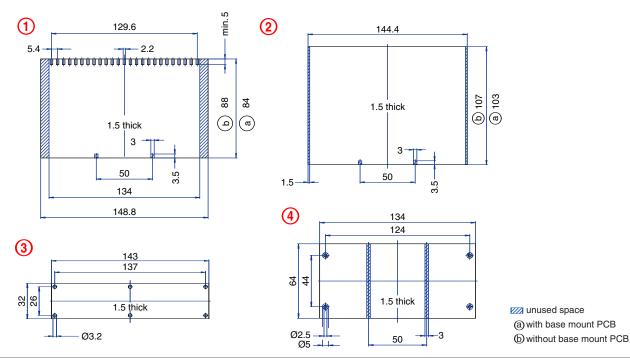
ORDERING INFORMATION

Part Number	Туре	Description	PCB Connection
90.620	KO4716P	Solid Cover	Card Edge
90.621	KO4716P	Removable Cover Panel, Tan	Card Edge
90.622	KO4716P	Removable Cover Panel, Clear	Card Edge
ACCESSORIES			
Accessories		Part Number	Туре
1 Meter DIN Rail		2511120/1M	TS35x7.5/1M
*Panel Mount Tab (need 3)		93.001.2	PMA

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)





66 Terminal

Pluggable Connection



TECHNICAL INFORMATION

Electrical:	Terminal Type:
10A, 300V, 22-12 AWG	Box Clamp
Housing Material:	Terminal Screw Size:
Glass-filled Polycarbonate	M3.5
Cover Material:	Recommended Torque:
Glass-filled Polycarbonate	0.8Nm
Temperature Range:	Max. PCB's:
Up to 125°C (257°F)	(5) Vertical
Flammability Rating:	(1) Behind cover
UL94 V-O (V-2 Clear Panel)	Mounting:
Color:	35mm DIN Rail or
Black Housing with Tan Cover	optional panel mounting*
ORDERING INFORMATION	

Part Number Туре Description **PCB** Connection 90.680 KO4721P Solid Cover Card Edge Removable Cover 90.681 KO4721P Card Edge Panel, Tan Removable Cover 90.682 KO4721P Card Edge Panel, Clear ACCESSORIES Accessories Part Number Туре 1 Meter DIN Rail 2511120/1M TS35x7.5/1M *Panel Mount Tab (need 3) 93.001.2 PMA

130 5 .**⊕**. ·<u></u>│┲│┹│┹<mark>│</mark>┲ ۲ 88 58 70 70 ***** ************ T. ŧ 125 194 200 118 107 1 10-3 (2 73 2.5

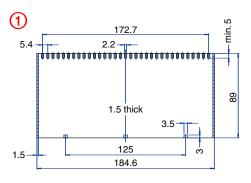
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

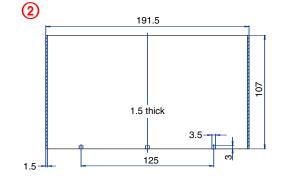
DIN Rail

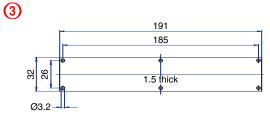
2.5

121

PCB DRAWING (To convert to inches divide by 25.4.)







66 Terminal

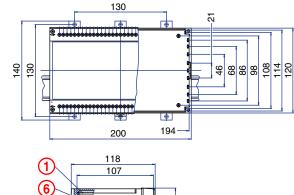
Pluggable Connection



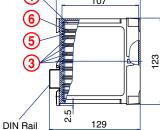
TECHNICAL INFORMATION

Electrical:	Terminal Type:
10A, 300V, 22-12 AWG	Box Clamp
Housing Material:	Terminal Screw Size:
Glass-filled Polycarbonate	M3.5
Cover Material:	Recommended Torque:
Glass-filled Polycarbonate	0.8Nm
Temperature Range:	Max. PCB's:
Up to 125°C (257°F)	(11) Vertical
Flammability Rating:	(1) Base Mount
UL94 V-O	Mounting:
Color:	35mm DIN Rail or
Black Housing with Tan Cov	ver optional panel mounting*
ORDERING INFORMATIC	N
Part Number Type	Description PCB Connection
90.710 KO4723SP	Solid Cover Card Edge

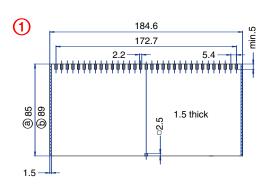
ACCESSORIES		
Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab (need 3)	93.001.2	PMA

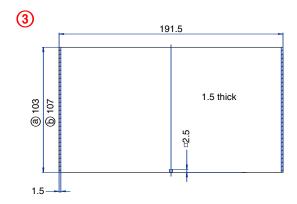


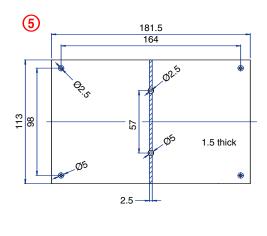
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

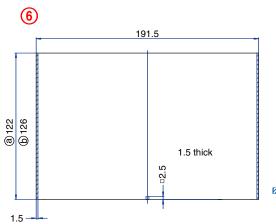


PCB DRAWING (To convert to inches divide by 25.4.)









unused space(a) with base mount PCB(b) without base mount PCB

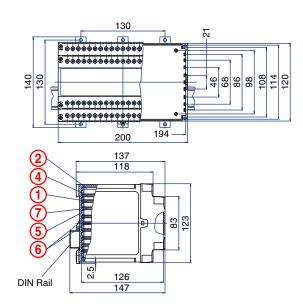


84 Terminal

Pluggable and Solder Connection

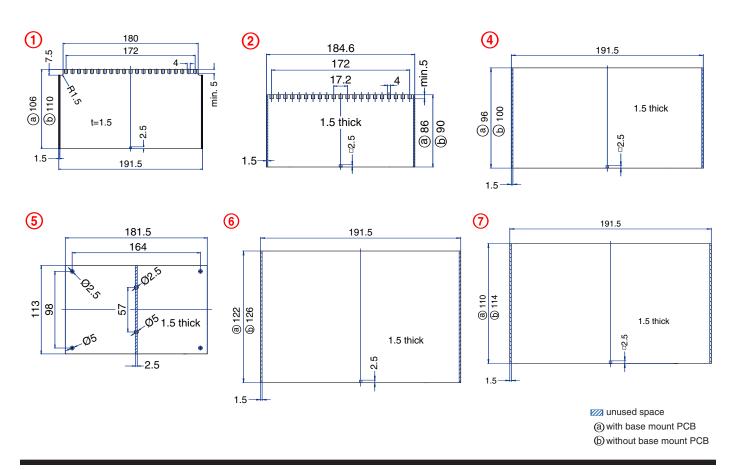
TECHNICAL INFORMATION

Electrical:	Terminal Type:		
10A, 300V, 22-14 AWG	Screw /	Pressure Plate	
Housing Material:	Terminal	Terminal Screw Size:	
Glass-filled Polycarbonate	e M3.5		
Cover Material:	Recommended Torque:		
Glass-filled Polycarbonate	e 0.8Nm		
Temperature Range:	Max. PCI	B's:	
Up to 125°C (257°F)	(11) Ver	tical	
Flammability Rating:	(1) Base Mount		
UL94 V-O	Mounting:		
Color:	35mm DIN Rail or		
Black Housing with Tan C	over optional	panel mounting*	
ORDERING INFORMATI	ION		
Part Number Type	Description	PCB Connection	
90.740 KO4722DP	Solid Cover	Card Edge/	
		Wire Jumper	
ACCESSORIES			
Accessories	Part Number	Туре	
1 Meter DIN Rail	CA701/15-S	TS35x15/1M	
*Panel Mount Tab (need 3)	93.001.2	PMA	



ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

PCB DRAWING (To convert to inches divide by 25.4.)



132 Terminal

Pluggable Connection

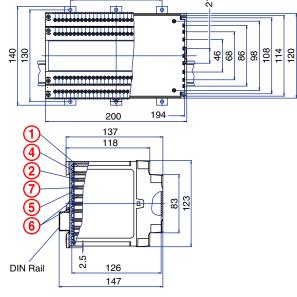


TECHNICAL INFORMATION

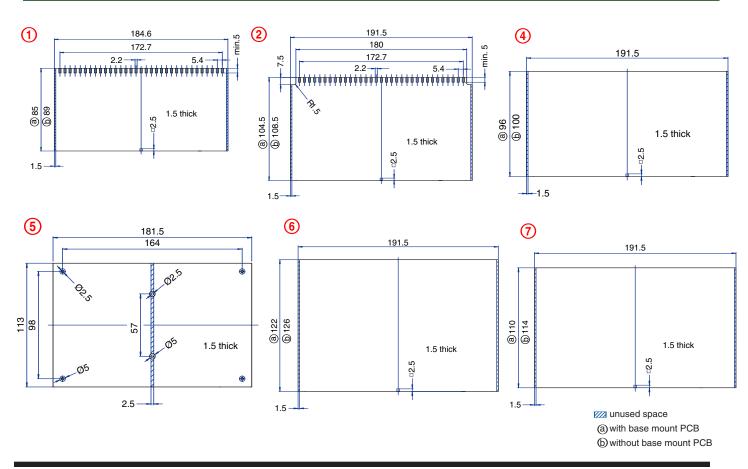
Electrical:	Terminal Type:	
10A, 300V, 22-12 AWG	Box Clamp	
Housing Material:	Terminal Screw Size:	
Glass-filled Polycarbonat	e M3.5	
Cover Material:	Recommended Torque:	
Glass-filled Polycarbonat	e 0.8Nm	
Temperature Range:	Max. PCB's:	
Up to 125°C (257°F)	(11) Vertical	
Flammability Rating:	(1) Base Mount	
UL94 V-O	Mounting:	
Color:	35mm DIN Rail or	
Black Housing with Tan C	Cover optional panel mounting*	
ORDERING INFORMATION		
Part Number Type	Description PCB Connection	
90.770 KO4723DP	Solid Cover Card Edge	

ACCESSORIES		
Accessories	Part Number	Туре
1 Meter DIN Rail	CA701/15-S	TS35x15/1M
*Panel Mount Tab (need 3)	93.001.2	PMA

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)





6 Terminal

with 6 High Current Terminals Solder Connection



TECHNICAL INFORMATION

Electrical: 40A, 300V, 18-8 AWG Housing Material: Glass-filled Polycarbonate Cover Material: Glass-filled Polycarbonate Temperature Range: Up to 125°C (257°F) Flammability Rating: UL94 V-O Color: Black Housing with Tan Cover Terminal Type: Box Clamp Terminal Screw Size: M3.5 Recommended Torque: 0.8Nm Max. PCB's: (2) Vertical (2) Horizontal Mounting: 35mm DIN Rail or optional panel mounting*

ORDERING INFORMATION

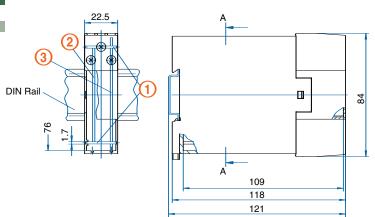
 Part Number
 Type

 90.815
 KO4734

Description Removable High Current Wire Jumper Terminals

ACCESSORIES				
Accessories	Part Number	Туре		
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M		
*Panel Mount Tab	93.001.2	PMA		

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.) 1 20.8 (2) (3) 64.2 77.9 29.6 29.6 R) R1 65 107 107 1.5 thick 65 65 1.5 thick 1.5 thick 18 76 unused space

14 Terminal Maximum Pluggable Card Edge Connection



Terminal Type:

Terminal Screw Size:

Recommended Torque:

Box clamp

M3.5

0.8Nm

Max. PCB's:

(2) Vertical

Mounting:

(2) Horizontal

35mm DIN Rail or

optional panel mounting*

TECHNICAL INFORMATION

Electrical: see chart for Amperages, 300V, 22-12 AWG Housing Material: Glass-filled Polycarbonate Cover Material: Glass-filled Polycarbonate Temperature Range: Up to 125°C (257°F) Flammability Rating: UL94 V-O (V-2 Clear Panel) Color: Black Housing with Tan Cover

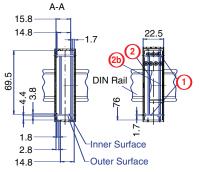
ORDERING INFORMATION

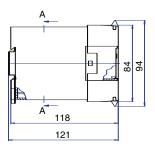
	Part Number	Туре	Description
	90.810	KO4730H	Base Housing
	90.810.1	KO4730F	Cover Frame
	90.810.2	KO4730P	Cover Panel, Tan
	90.810.3	KO4730P-C	Cover Panel, Clear
	90.810.4	KO4730P/S	Cover Panel with terminal
			release slots, Tan
	90.810.5	KO4730P-C/S	Cover Panel with terminal
			release slots, Clear
	90.803	KO473xT/3	Terminal Block, 3 terminals
	90.804	KO473xT/4	Terminal Block, 4 terminals
	90.807	KO473xT/7	Terminal Block, 7 terminals
	90.800	KO473xT/B	Blanking Block, 0 terminals

COMPLETE ENCLOSURE CONSISTS OF

- (1) Base Housing
- (1) Cover Frame
- (1) Cover Panel
- (2) Terminal or blanking blocks

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





ACCESSORIES

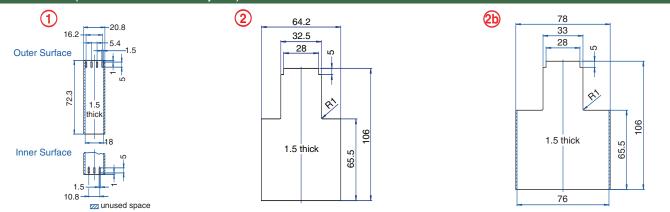
Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab	93.001.2	PMA

AMPERAGE CHART

Max. Current Carrying Capacity of Terminal Blocks

	3 pole 000	4 pole	7 pole
Max Amperage of Terminal Blocks	15A	28A	15A top row 28A bottom row
Max Amperage Per Terminal Point	5A	8A	5A top row 8A bottom row

PCB DRAWING (To convert to inches divide by 25.4.)





20 Terminal Maximum

with 6 High Current Terminals Pluggable Card Edge Connection/ Solder Connection

TECHNICAL INFORMATION

Electrical:

see chart for Amperages, 300V, 22-12 AWG standard 18-8 AWG high current Housing Material: Glass-filled Polycarbonate Cover Material: Glass-filled Polycarbonate Temperature Range: Up to 125°C (257°F) Flammability Rating: UL94 V-O (V-2 Clear Panel) Color: Black Housing with Tan Cover

ORDERING INFORMATION

Terminal Type:
Box clamp
Terminal Screw Size:
M3.5
Recommended Torque:
0.8Nm
Max. PCB's:
(2) Vertical
(2) Horizontal
Mounting:
35mm DIN Rail or
optional panel mounting*

COMPLETE ENCLOSURE CONSISTS OF

- (1) Base Housing
- (1) Center Cover

A-A

36

DIN Rail

Outer Surface

4.4 69.1

3

- (2) Terminal or blanking blocks
- (2) High current terminal blocks

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

86

(1b)

Inner Surface

1.7

41

Part Number	Туре	Description		
90.825	KO4735H	Base Housing		
90.825.1	KO4735F	Cover Frame		
90.820.2	KO4731/5P	Cover Panel, Tan		
90.820.3	KO4731/5P-C	Cover Panel, Clear		
90.820.4	KO4731/5P/S	Cover Panel with terminal		
		release slots, Tan		
90.820.5	KO4731/5P-C/S	Cover Panel with terminal		
		release slots, Clear		
90.803	KO473xT/3	Terminal Block, 3 terminals		
90.804	KO473xT/4	Terminal Block, 4 terminals		
90.807	KO473xT/7	Terminal Block, 7 terminals		
90.800	KO473xT/B	Blanking Block, 0 terminals		
90.808	KO473xHCT	High Current Block, 3 terminals		
ACCESSORIES				

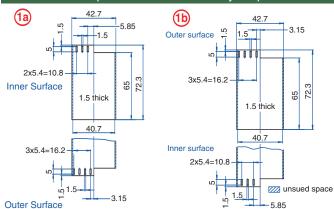
Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab	93.001.2	PMA

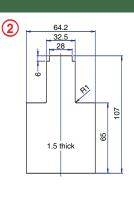
AMPERAGE CHART

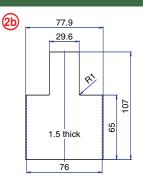
Max. Current Carrying Capacity of Terminal Blocks

	3 pole 000	4 pole 0000	000	High Current
Max Amperage of Terminal Blocks	15A	28A	15A top row 28A bottom row	v 40A
Max Amperage Per Terminal Point	8A	8A	5A top row 8A bottom row	, 40A

PCB DRAWING (To convert to inches divide by 25.4.)







A 108 118

121

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4

28 Terminal Maximum Pluggable Card Edge Connection



Terminal Type:

Terminal Screw Size:

Recommended Torque:

Box clamp

M3.5

0.8Nm

Max. PCB's:

(2) Vertical

Mounting:

(2) Horizontal

35mm DIN Rail or

optional panel mounting*

TECHNICAL INFORMATION

Electrical: see chart for Amperages, 300V, 22-12 AWG **Housing Material: Glass-filled Polycarbonate Cover Material:** Glass-filled Polycarbonate **Temperature Range:** Up to 125°C (257°F) Flammability Rating: UL94 V-O (V-2 Clear Panel) Color: Black Housing with Tan Cover

ORDERING INFORMATION

ACCESSORIES

Accessories

Meter DIN Rail

Panel Mount Tab

Max Amperage

Max Amperage

of Terminal Blocks

Per Terminal Point

(1)

Outer Surface

2x16.2

54

6.3

10.8 5.4

11.7

Inner Surface

AMPERAGE CHART

	Part Number	Туре	Description
	90.820	KO4731H	Base Housing
	90.820.1	KO4731F	Cover Frame
	90.820.2	KO4731/5P	Cover Panel, Tan
	90.820.3	KO4731/5P-C	Cover Panel, Clear
	90.820.4	KO4731/5P/S	Cover Panel with terminal
			release slots, Tan
90.820.5 KO4731/5P-C/S		KO4731/5P-C/S	Cover Panel with terminal
			release slots, Clear
	90.803	KO473xT/3	Terminal Block, 3 terminals
	90.804	KO473xT/4	Terminal Block, 4 terminals
	90.807	KO473xT/7	Terminal Block, 7 terminals
	90.800	KO473xT/B	Blanking Block, 0 terminals

Part Number

2511120/1M

93.001.2

4 pole

0000

28A

2

15

33.3

Max. Current Carrying Capacity of Terminal Blocks 3 pole

000

15A

5A

38

1.5 thick

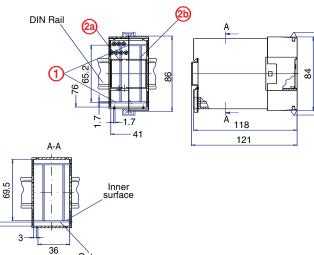
40.7

42.7

COMPLETE ENCLOSURE CONSISTS OF

- (1) Base Housing
- (1) Cover Frame
- (1) Cover Panel
- (4) Terminal or blanking blocks

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



94

Outer surface

28A bottom row 5A top row 8A 8A bottom row PCB DRAWING (To convert to inches divide by 25.4.) (2a) 64.2 .5 32.5 28 ß

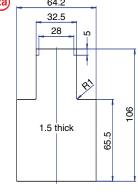
Туре

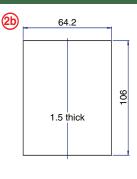
S35x7.5/1M PMA

7 pole

0000

15A top row







34 Terminal Maximum

with 6 High Current Terminals **Pluggable Card Edge Connection / Solder Connection**

TECHNICAL INFORMATION

Electrical:

Part Number

90.830

90.803

90.804

90.807

90.800

90.808

90.830.6

see chart for Amperages,
300V, 22-12 AWG standard
18-8 AWG high current
Housing Material:
nousing material.
Glass-filled Polycarbonate
Cover Material:
Glass-filled Polycarbonate
Temperature Range:
Up to 125°C (257°F)
Flammability Rating:
UL94 V-O (V-2 Clear Panel)
Color:
Black Housing with Tan Cover
ORDERING INFORMATION

Box clamp **Terminal Screw Size:** M3.5 **Recommended Torque:** 0.8Nm Max. PCB's: (3) Vertical (2) Horizontal

Terminal Type:

00 000

(1) Parallel with cover Mounting: 35mm DIN Rail or

optional panel mounting*

COMPLETE ENCLOSURE CONSISTS OF

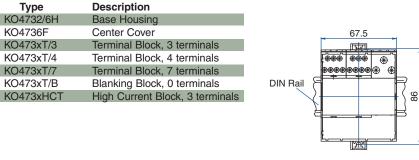
(1) Base Housing

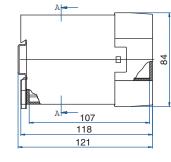
(1) Center Cover

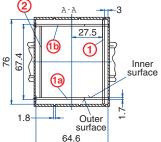
(4) Terminal or blanking blocks

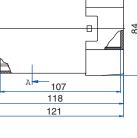
(2) High current terminal blocks

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







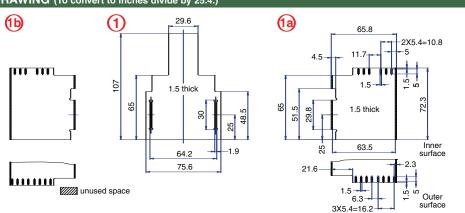


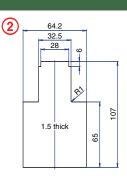
ACCESSORIES Accessories Part Number Туре 1 Meter DIN Rail 2511120/1M 35x7.5/1M *Panel Mount Tab (need 2) 93.001.2 PMA AMPERAGE CHART

Max. Current Carrying Capacity of Terminal Blocks

	3 pole	4 pole	7 pole	High Current
	000	0000		00
Max Amperage of Terminal Blocks	15A	28A	15A top row 28A bottom rov	v 40A
Max Amperage Per Terminal Point	8A	8A	5A top row 8A bottom row	40A

PCB DRAWING (To convert to inches divide by 25.4.)





40 Terminal Maximum with 12 High Current Terminals **Pluggable Card Edge Connection / Solder Connection**



Terminal Block, 3 terminals

Terminal Block, 4 terminals

Terminal Block, 7 terminals

Blanking Block, 0 terminals

High Current Block, 3 terminals

TECHNICAL INFORMATION

90.803

90.804

90.807

90.800

90.808

Electrical: see chart for Amperages, 300V, 22-12 AWG standard 18-8 AWG high current Housing Material: Glass-filled Polycarbonate Cover Material: Glass-filled Polycarbonate Temperature Range: Up to 125°C (257°F) Flammability Rating: UL94 V-O (V-2 Clear Panel) Color:		Terminal Type: Box clamp Terminal Screw Size: M3.5 Recommended Torque: 0.8Nm Max. PCB's: (4) Vertical (2) Horizontal (1) Parallel with cover Mounting: 35mm DIN Rail or optional panel mounting*
Black Housing	g with Tan Cover	
ORDERING IN	NFORMATION	
Part Number	Туре	Description
90.845	KO4737H	Base Housing
90.845.6	KO4737F	Center Cover

KO473xT/3

KO473xT/4

KO473xT/7

KO473xT/B

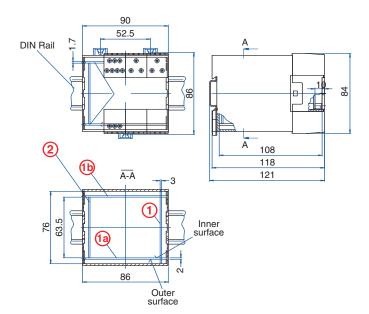
KO473xHCT

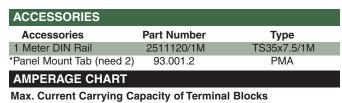
COMPLETE ENCLOSURE CONSISTS OF

(1) Base Housing

- (1) Center Cover
- (4) Terminal or blanking blocks
- (4) High current terminal blocks

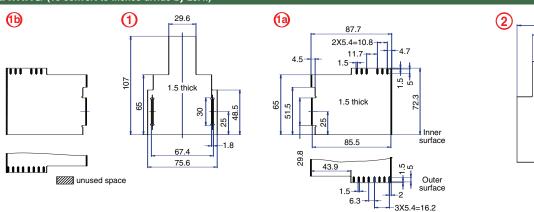
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

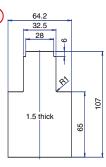




	3 pole	4 pole	7 pole	High Current
	000	0000	000	00
Max Amperage of Terminal Blocks	15A	28A	15A top row 28A bottom rov	v 40A
Max Amperage Per Terminal Point	8A	8A	5A top row 8A bottom row	40A

PCB DRAWING (To convert to inches divide by 25.4.)





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42 Terminal Maximum **Pluggable Card Edge** Connection



Terminal Type:

Terminal Screw Size:

Recommended Torque:

Box clamp

M3.5

0.8Nm

Max. PCB's:

(3) Vertical

Mounting:

(2) Horizontal (1) Parallel with cover

35mm DIN Rail or

optional panel mounting*

TECHNICAL INFORMATION

Electrical: see chart for Amperages, 300V, 22-12 AWG **Housing Material:** Glass-filled Polycarbonate **Cover Material:** Glass-filled Polycarbonate **Temperature Range:** Up to 125°C (257°F) Flammability Rating: UL94 V-O (V-2 Clear Panel) Color: Black Housing with Tan Cover

ORDERING INFORMATION

Part Number		Туре	Description			
ç	90.830	KO4732/6H	Base Housing			
ę	90.830.1	KO4732F	Cover Frame			
ç	90.830.2	KO4732P	Cover Panel, Tan			
ę	90.830.3	KO4732P-C	Cover Panel, Clear			
ç	90.830.4	KO4732P/S	Cover Panel with terminal release slots, Tan			
ç	90.830.5	KO4732P-C/S	Cover Panel with terminal release slots, Clear			
ç	90.803	KO473xT/3	Terminal Block, 3 terminals			
ę	90.804	KO473xT/4	Terminal Block, 4 terminals			
ç	90.807	KO473xT/7	Terminal Block, 7 terminals			
ę	90.800	KO473xT/B	Blanking Block, 0 terminals			

ACCESSORIES

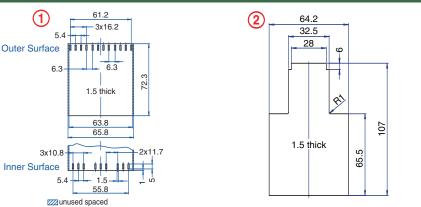
Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab (need 2)	93.001.2	PMA

AMPERAGE CHART

Max. Current Carrying Capacity of Terminal Blocks

	3 pole 000	4 pole	7 pole
Max Amperage of Terminal Blocks	15A	28A	15A top row 28A bottom row
Max Amperage Per Terminal Point	5A	8A	5A top row 8A bottom row

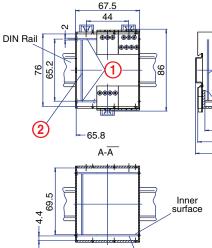
PCB DRAWING (To convert to inches divide by 25.4.)

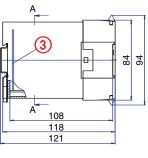


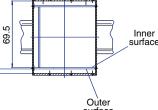
COMPLETE ENCLOSURE CONSISTS OF

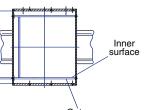
- (1) Base Housing
- (1) Cover Frame
- (1) Cover Panel
- (6) Terminal or blanking blocks

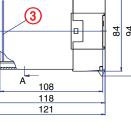
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

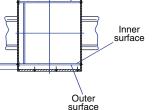


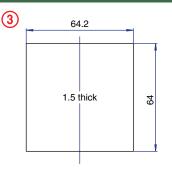












56 Terminal Maximum Pluggable Card Edge Connection



Terminal Type:

Terminal Screw Size:

(1ea.) Parallel with/

35mm DIN Rail or

optional panel mounting*

Туре

PMA

7 pole

15A top row

28A bottom row

S35x7.5/1M

Recommended Torque:

Box clamp

M3.5

0.8Nm

Max. PCB's:

(4) Vertical(2) Horizontal

behind cover

Mounting:

TECHNICAL INFORMATION

Electrical: see chart for Amperages, 300V, 22-12 AWG Housing Material: Glass-filled Polycarbonate Cover Material: Glass-filled Polycarbonate Temperature Range: Up to 125°C (257°F) Flammability Rating: UL94 V-O (V-2 Clear Panel) Color: Black Housing with Tan Cover

ORDERING INFORMATION

ACCESSORIES

Accessories

1 Meter DIN Rail

Max Amperage

of Terminal Blocks

*Panel Mount Tab (need 2)

AMPERAGE CHART

	Part Number	Туре	Description
	90.840	KO4733H	Base Housing
	90.840.1	KO4733F	Cover Frame
	90.840.2	KO4733P	Cover Panel, Tan
	90.840.3	KO4733P-C	Cover Panel, Clear
	90.840.4	KO4733P/S	Cover Panel with terminal
			release slots, Tan
	90.840.5	KO4733P-C/S	Cover Panel with terminal
			release slots, Clear
	90.803	KO473xT/3	Terminal Block, 3 terminals
90.804		KO473xT/4	Terminal Block, 4 terminals
	90.807	KO473xT/7	Terminal Block, 7 terminals
	90.800	KO473xT/B	Blanking Block, 0 terminals

Part Number

2511120/1M

93.001.2

4 pole

0000

28A

Max. Current Carrying Capacity of Terminal Blocks

3 pole

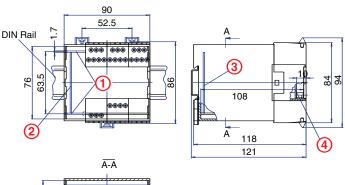
000

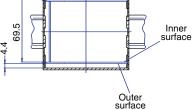
15A

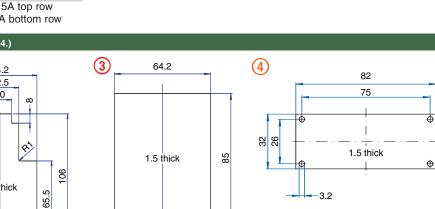
COMPLETE ENCLOSURE CONSISTS OF (1) Base Housing

- (1) Cover Frame
- (1) Cover Panel
- (8) Terminal or blanking blocks

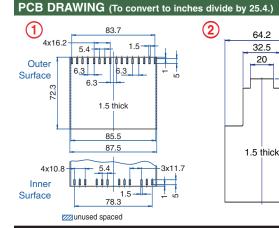
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







Max Amperage 5A top row Per Terminal Point 5A 8A 8A bottom row





The KO4300 Series Enclosures feature high density double level terminals making them ideal for many electronic applications. They are small to medium in size ranging from 16 to 64 terminals. There are 4 widths available each having a short and tall version available.

MATERIALS

Housing Shell: Polycarbonate, 10% Glass Filled Terminal Housing: Polyamide, 40% Glass Filled Terminal: Tin-plated Steel

TEMPERATURE RATINGS:

Housing: 115°C (239°F) UL94VO Terminal Housing: 290°C (554°F) UL94VO Standard Color: Light Gray

PROTECTION

KO4300 series enclosures have an IP20 rating (finger protected) and meet VBG4 and other European accident prevention requirements.

CONSTRUCTION

The KO4300 enclosure series housings are supplied as unassembled kits. Each kit consists of a housing base, terminal cover side parts, terminal blocks and a front plate. The double level terminal design keeps the enclosure width to a minimum freeing valuable DIN rail space. The terminals are machine solderable with right angle pins. Integral printed circuit board guides are molded into the housing base to help with proper board insertion and containment. Boards are mounted vertically in the enclosure, perpendicular to the DIN rail.

TERMINALS

Rising clamp screw terminals are used with the KO4300 series enclosures. Wires to be terminated are squeezed between the bottom of the rising clamp and the terminal strip for reliable, gas-tight connections. The terminals can be machine soldered to the board in the same step as the other components to save time and labor. All terminals have funnel shaped wire openings to eliminate wire fraying. The terminal screws can be turned with a flat tip or a #2 Philips screwdriver.

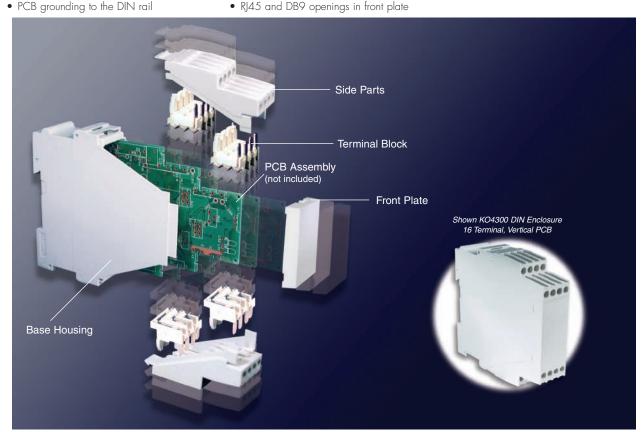
MOUNTING

The KO4300 series can easily be mounted on standard 35mm DIN rail by means of the integral mounting foot and DIN clip.

CUSTOMIZATION

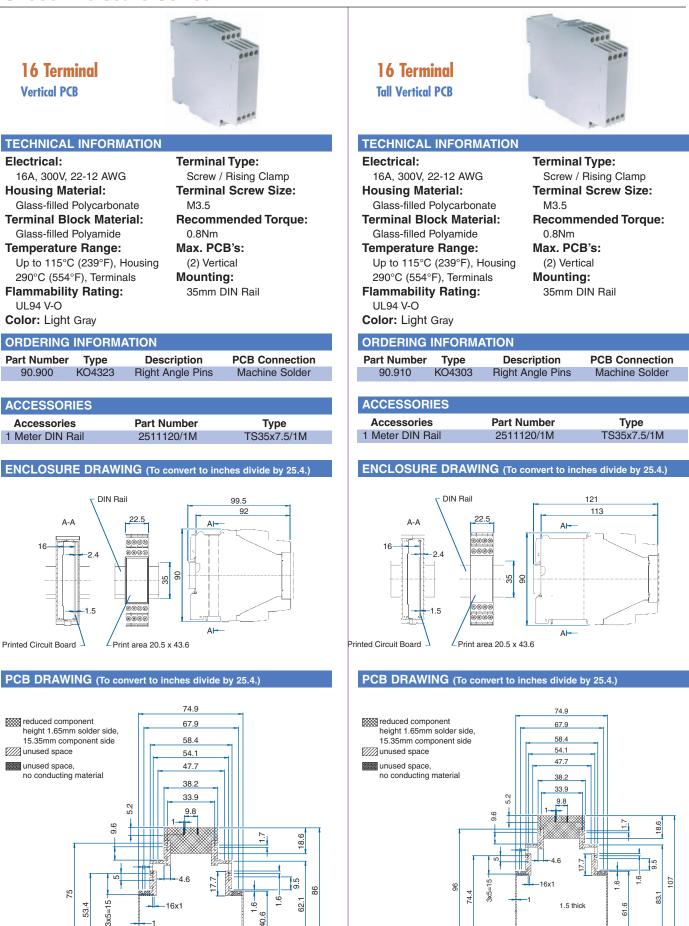
Many custom options are available for the KO4300 series enclosures. Some of the available options are:

- Partial terminal loading
- Side ventilation slots
- Internal/External bus connections
- Machining of custom holesRJ45 and DB9 openings in front plate



HOUSING ASSEMBLY

- Place all assemblies on a level surface
- Terminal blocks should be pre-assembled on the PCB
- Push the side parts over the terminal blocks ensuring that the guide pins of the terminal blocks slide into the holes of the side parts
- Snap the front plate onto the pre-mounted side parts
- Slide the PCB of the upper section into the guide groves of the base
- Slide the upper section into the base. Make sure that the wall areas overlap correctly and the guide element of the base slides in the mating recess of the base.
- Push the assembly completely together so that the clips on the side parts snap into the recesses in the base



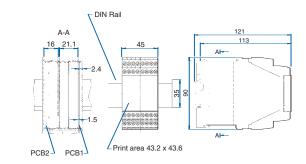
40.6

1.5 thick

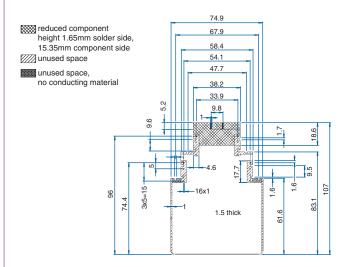
<u>Altech</u>

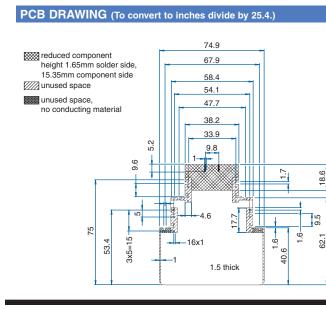
32 Terminal Vertical PCB		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	32 Te Tall Vert	r minal ical PCB		No of the second	00000000000000000000000000000000000000
TECHNICAL INFORMA	ΓΙΟΝ		TECHNIC	AL INFORM	ATION		
TECHNICAL INFORMATIONElectrical:Terminal Type:16A, 300V, 22-12 AWGScrew / Rising ClampHousing Material:Glass-filled PolycarbonateGlass-filled PolycarbonateM3.5Terminal Block Material:M3.5Glass-filled Polyamide0.8NmTemperature Range:0.8NmUp to 115°C (239°F), Housing(4) Vertical290°C (554°F), TerminalsMounting:Flammability Rating:35mm DIN RailUL94 V-OColor: Light Gray		16A, 300 Housing Glass-fill Terminal Glass-fill Temperat Up to 11 290°C (5 Flammab UL94 V-0	TECHNICAL INFORMATION Electrical: 16A, 300V, 22-12 AWG Housing Material: Glass-filled Polycarbonate Terminal Block Material: Glass-filled Polyamide Temperature Range: Up to 115°C (239°F), Housing 290°C (554°F), Terminals Flammability Rating: UL94 V-O Color: Light Gray		Terminal Type: Screw / Rising Clamp Terminal Screw Size: M3.5 Recommended Torque: 0.8Nm Max. PCB's: (4) Vertical Mounting: 35mm DIN Rail		
ORDERING INFORMAT	ION		ORDERIN	IG INFORM	ATION		
Part NumberType90.920KO4324	Description Right Angle Pins	PCB Connection Machine Solder	Part Numb 90.930	KO4304		r iption ngle Pins	PCB Connection Machine Solder
ACCESSORIES			ACCESS	ORIES			
Accessories 1 Meter DIN Rail	Part Number 2511120/1M	Type TS35x7.5/1M	Accesso 1 Meter DI		251112		Type TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.) ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)





DIN Rail

1.5

PCB1

35 90

Print area 43.2 x 43.6

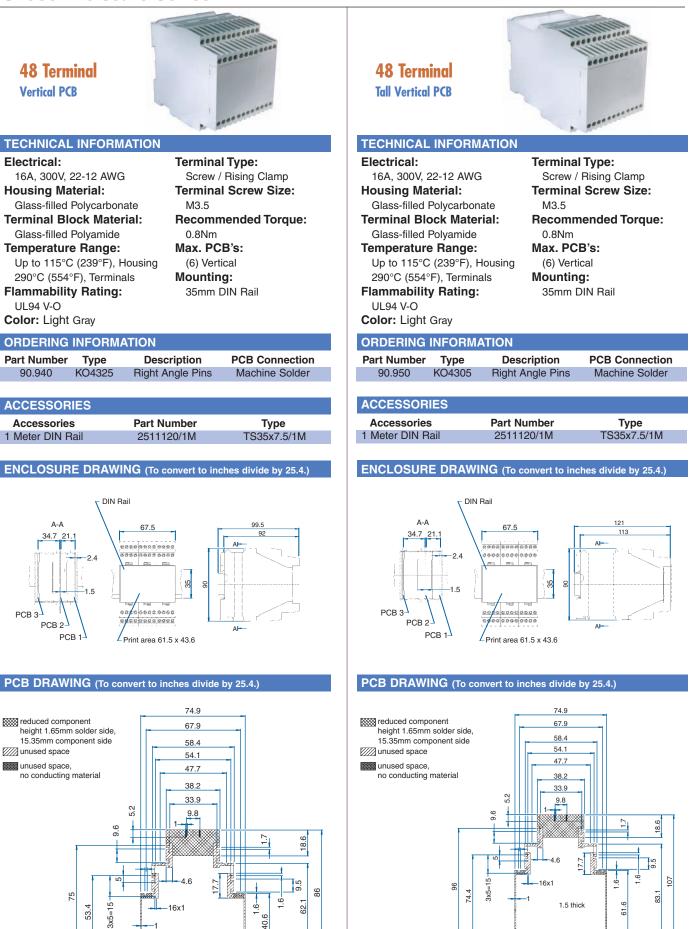
A

A-A

16 21.1

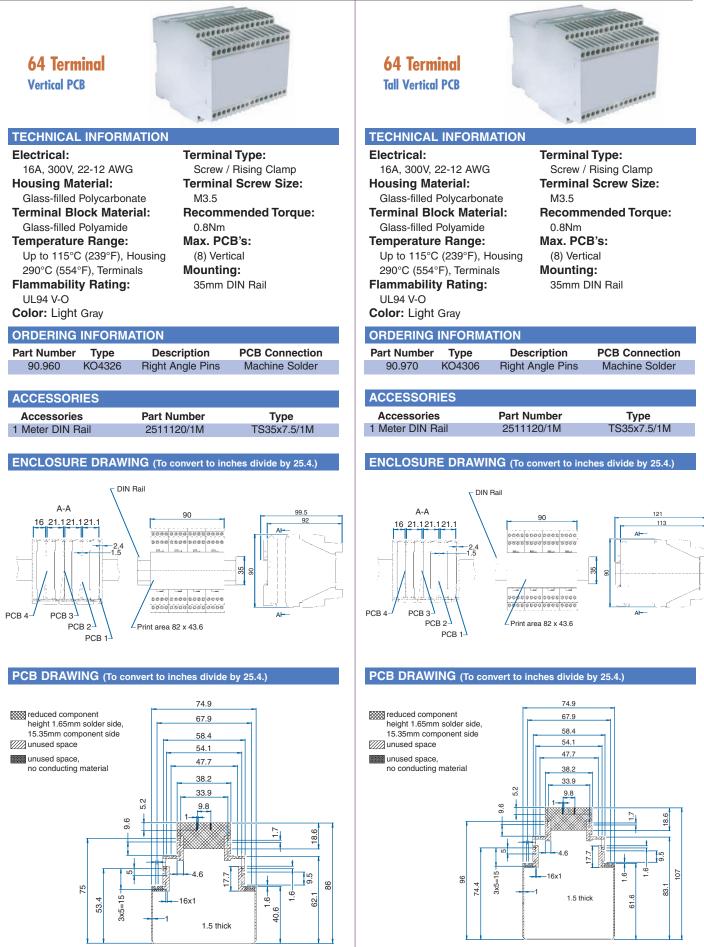
PCB2

86



1.5 thick

<u>Altech</u>





ООО "ЛайфЭлектроникс"

ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 3010181090000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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