

# KO4300 Series



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. Terminal styles are available in fixed screw terminals, pluggable screw terminals or pluggable spring clamp terminals.

## MATERIALS

Housing Shell: Polycarbonate, 10% Glass Filled  
Terminal Housing: Polyamide, 40% Glass Filled  
Terminal: Tin-plated Steel (spring terminal: stainless steel)  
Standard Color: Light Gray

## TEMPERATURE RATINGS:

Terminal Housing: 290°C (554°F) UL94VO  
Housing: 115°C (239°F) UL94VO

## 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.

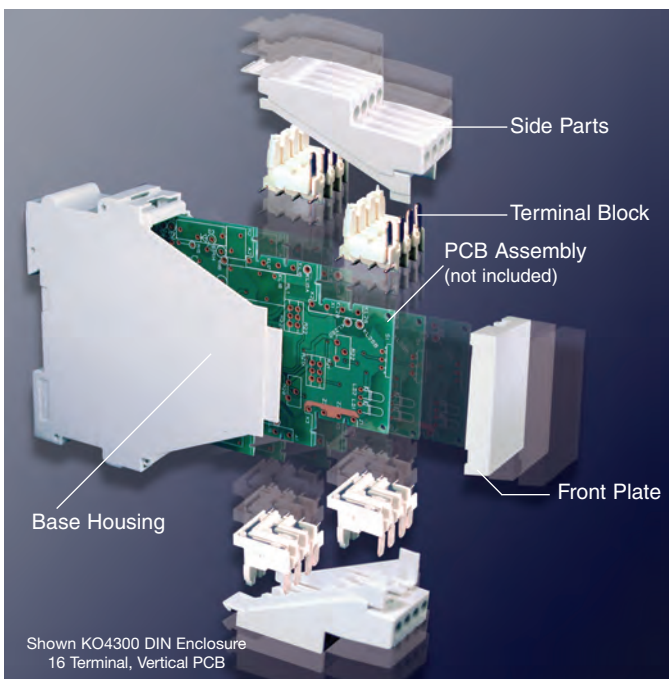
## TERMINALS

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.

Pluggable screw clamp and spring clamp terminals are also available. A 3mm wide flat blade screwdriver should be used to open the spring terminal for wire insertion.

## 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 holes
- PCB grounding to the DIN rail
- RJ45 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 grooves 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



## 32 Terminal Vertical PCB



## 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

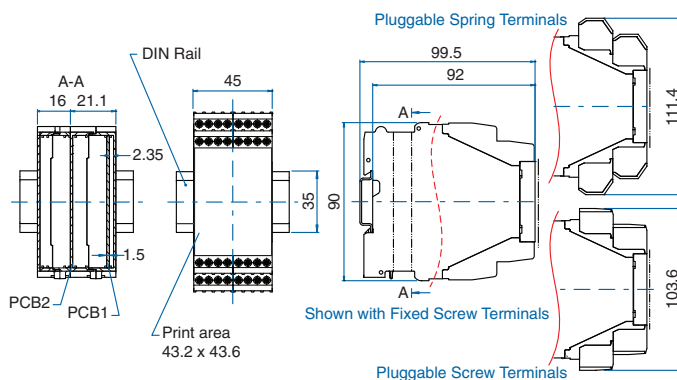
## ORDERING INFORMATION

| Part Number | Type      | Terminals        | PCB Connection |
|-------------|-----------|------------------|----------------|
| 90.920      | KO4324    | Fixed Screw      | Machine Solder |
| 90.923      | KO4324stS | Pluggable Screw  | Machine Solder |
| 90.925      | KO4324stK | Pluggable Spring | Machine Solder |

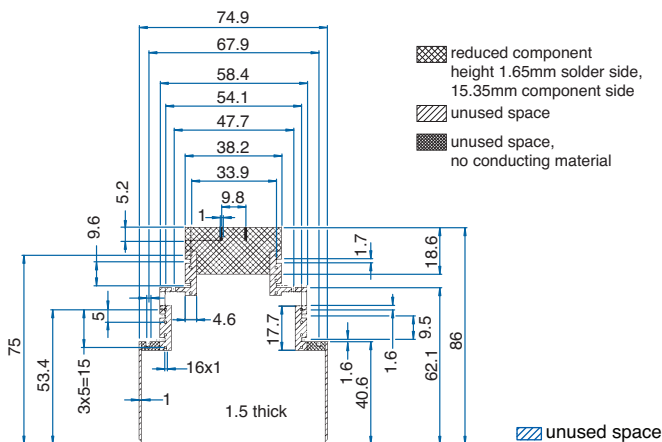
## ACCESSORIES

| 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.)



## 32 Terminal Tall Vertical PCB



## 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

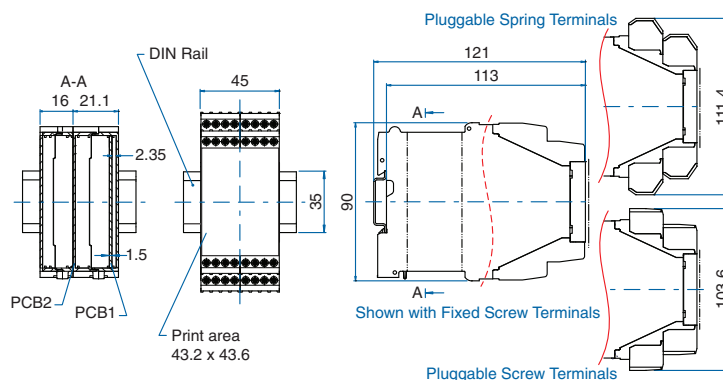
**Color:** Light Gray

## ORDERING INFORMATION

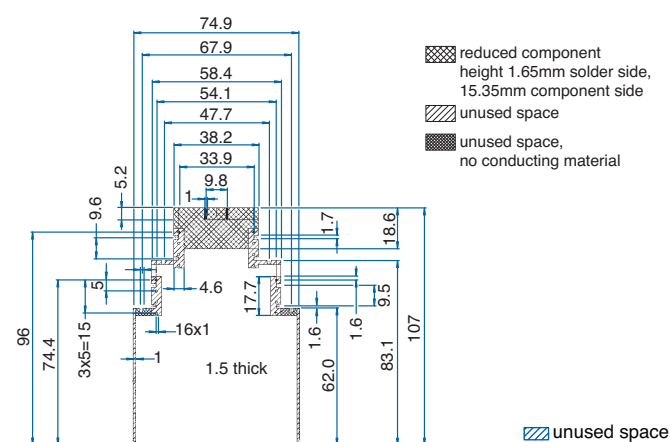
| Part Number | Type      | Terminals        | PCB Connection |
|-------------|-----------|------------------|----------------|
| 90.930      | KO4304    | Fixed Screw      | Machine Solder |
| 90.933      | KO4304stS | Pluggable Screw  | Machine Solder |
| 90.935      | KO4304stK | Pluggable Spring | Machine Solder |

## ACCESSORIES

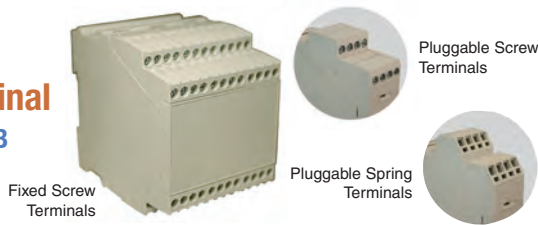
| Accessories      | Part Number | Type        |
|------------------|-------------|-------------|
| 1 Meter DIN Rail | 2511120/1M  | TS35x7.5/1M |

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

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



## 48 Terminal Vertical PCB



### 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:

(6) Vertical

#### Mounting:

35mm DIN Rail

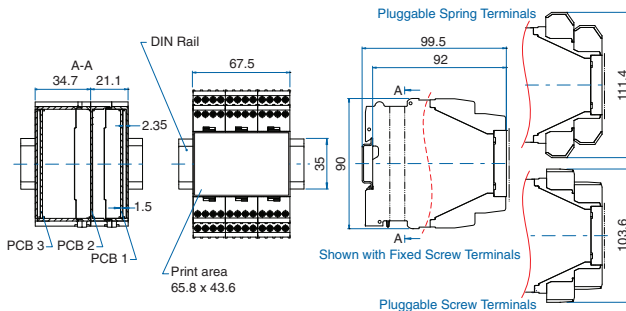
### ORDERING INFORMATION

| Part Number | Type      | Terminals        | PCB Connection |
|-------------|-----------|------------------|----------------|
| 90.940      | KO4325    | Fixed Screw      | Machine Solder |
| 90.943      | KO4325stS | Pluggable Screw  | Machine Solder |
| 90.945      | KO4325stK | Pluggable Spring | Machine Solder |

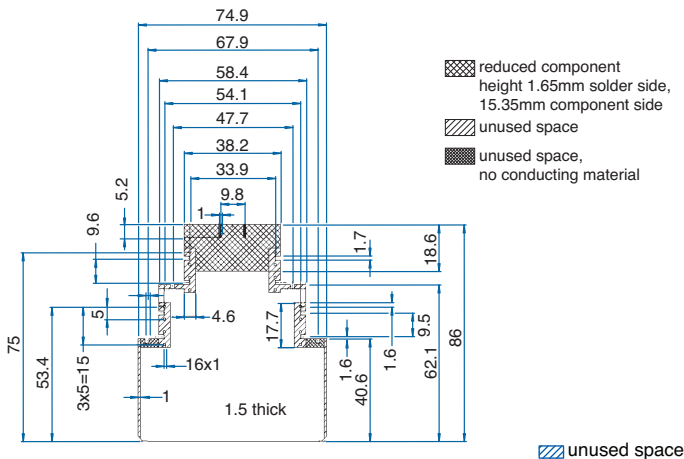
### ACCESSORIES

| Accessories      | Part Number | Type        |
|------------------|-------------|-------------|
| 1 Meter DIN Rail | 2511120/1M  | TS35x7.5/1M |

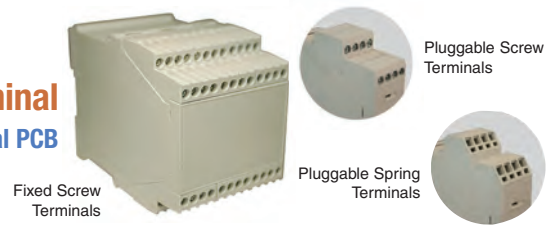
### ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



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



## 48 Terminal Tall Vertical PCB



### 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:

(6) Vertical

#### Mounting:

35mm DIN Rail

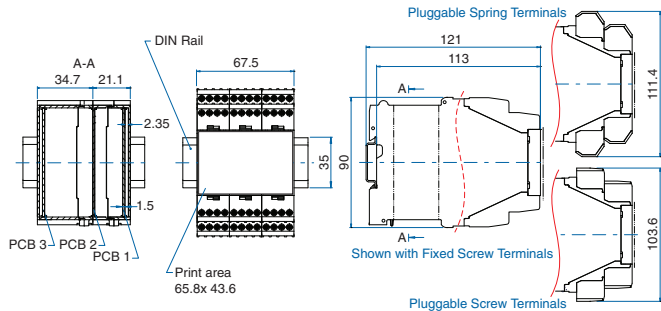
### ORDERING INFORMATION

| Part Number | Type      | Terminals        | PCB Connection |
|-------------|-----------|------------------|----------------|
| 90.950      | KO4305    | Fixed Screw      | Machine Solder |
| 90.953      | KO4305stS | Pluggable Screw  | Machine Solder |
| 90.955      | KO4305stK | Pluggable Spring | Machine Solder |

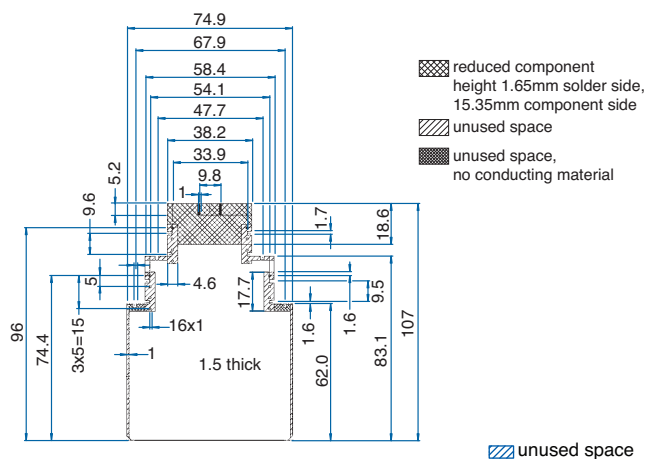
### ACCESSORIES

| Accessories      | Part Number | Type        |
|------------------|-------------|-------------|
| 1 Meter DIN Rail | 2511120/1M  | TS35x7.5/1M |

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

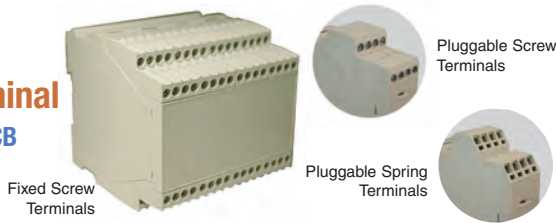


### PCB DRAWING (To convert to inches divide by 25.4.)





## 64 Terminal Vertical PCB



### 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:

(8) Vertical

#### Mounting:

35mm DIN Rail

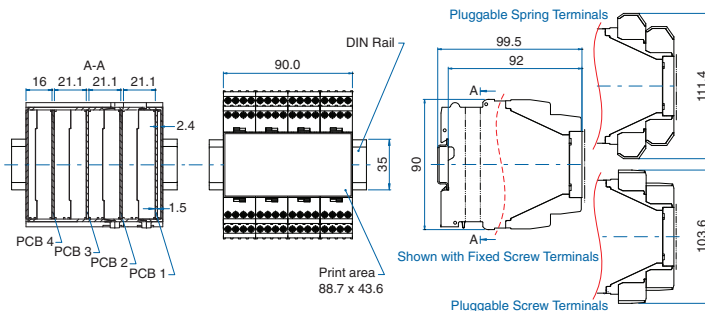
### ORDERING INFORMATION

| Part Number | Type      | Terminals        | PCB Connection |
|-------------|-----------|------------------|----------------|
| 90.960      | KO4326    | Fixed Screw      | Machine Solder |
| 90.963      | KO4326stS | Pluggable Screw  | Machine Solder |
| 90.965      | KO4326stK | Pluggable Spring | Machine Solder |

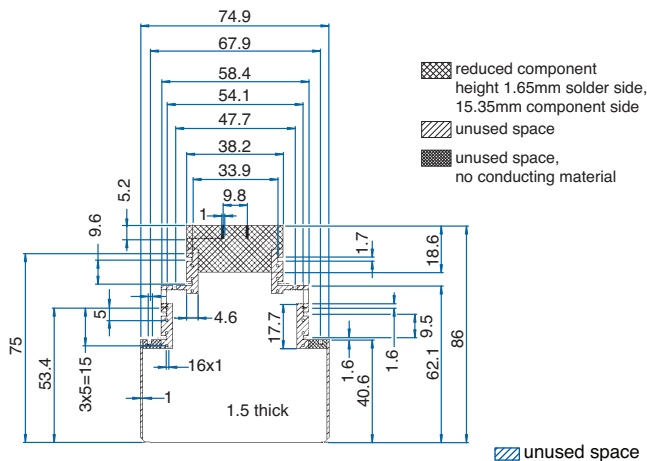
### ACCESSORIES

| Accessories      | Part Number | Type        |
|------------------|-------------|-------------|
| 1 Meter DIN Rail | 2511120/1M  | TS35x7.5/1M |

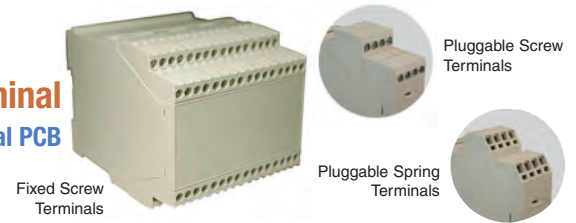
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### PCB DRAWING (To convert to inches divide by 25.4.)



## 64 Terminal Tall Vertical PCB



### 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:

(8) Vertical

#### Mounting:

35mm DIN Rail

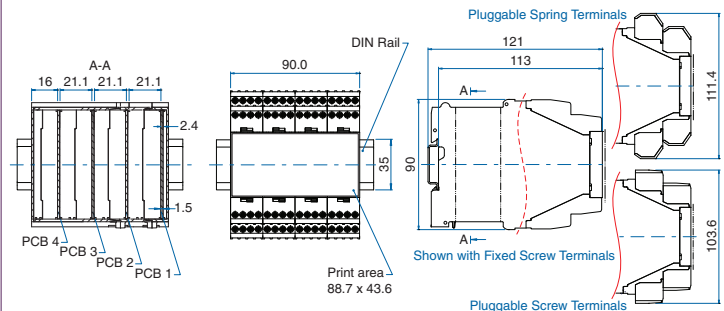
### ORDERING INFORMATION

| Part Number | Type      | Terminals        | PCB Connection |
|-------------|-----------|------------------|----------------|
| 90.970      | KO4306    | Fixed Screw      | Machine Solder |
| 90.973      | KO4306stS | Pluggable Screw  | Machine Solder |
| 90.975      | KO4306stK | Pluggable Spring | Machine Solder |

### ACCESSORIES

| Accessories      | Part Number | Type        |
|------------------|-------------|-------------|
| 1 Meter DIN Rail | 2511120/1M  | TS35x7.5/1M |

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