

KU4100 Enclosure Series



The versatile **KU4100 series** features a compact design with different terminal configuration options. They are available in six widths with double level terminal locations. Terminal configuration options include blank enclosures with no terminal openings, fixed PCB terminals and pluggable PCB terminals.

MATERIALS

Housing

Housing Shell: Polycarbonate, 10% Glass Filled

Base: Polycarbonate, 10% Glass Filled

Terminals

Housing: Polyamide

Terminal Pins: Tinned Brass

TEMPERATURE RATING:

115°C (239°F) UL94V0

Housing: Light Gray Cover with Black Base

PROTECTION

KU4100 enclosures have an IP30 rating, IP20 for terminal openings, (finger protected) and meet VBG4 and other European accident prevention requirements.

CONSTRUCTION

The KU4100 enclosure series housings are supplied as unassembled kits. Each kit consists of a flat base, a housing cover and terminal sets where applicable. The terminals are set on two levels to maximize space. The terminals are machine solderable. Integral printed circuit guides are molded into the cover for proper board insertion and containment. Multiple boards can be mounted in each enclosure, usually 2 PCBs are used with the terminals

and one additional PCB can be used for display or control elements in the enclosure front.

TERMINALS

There are 4 options available; no terminal openings, fixed PCB terminals, pluggable PCB terminals and high current terminals. The terminal blocks are all machine solderable.

The option of no terminal openings allows for custom openings to be made to accommodate alternate connector types.

Fixed PCB terminals are standard screw cage clamp style terminal blocks. Terminal covers are available for the fixed PCB terminal version to cover unused terminals. The terminal cover is a 12 poles strip that is breakable into individual poles. It snaps onto the enclosure covering the screw hole and wire entry areas.

Pluggable PCB terminals feature male pin headers and female screw cage clamp plugs that can be plugged/unplugged. **Power source must be disconnected before plugging/unplugging terminals.**

High current terminals feature rising clamps where the wire is clamped between the clamp and the terminal strip.

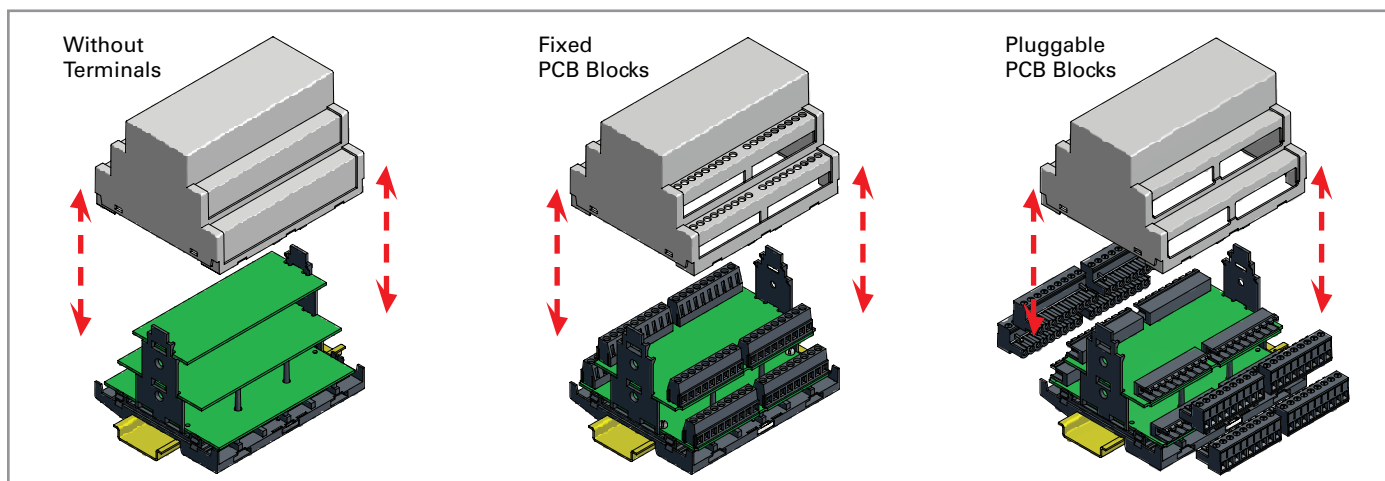
MOUNTING

The KU4100 series can easily be mounted on standard 35mm DIN rail by means of the integral mounting foot and DIN clip.

CUSTOMIZATION

We can supply the KU4100 series enclosures with many custom options including:

- Partial terminal loading
- Enclosure bus connections
- Ventilation Slots
- Machining of custom holes



17.5mm Enclosure

Without Terminals



TECHNICAL INFORMATION

Electrical:	Terminal Type:
—	—
Housing Material:	Terminal Screw Size:
Glass-filled Polycarbonate	—
Temperature Range:	Recommended Torque:
Up to 115°C (239°F)	—
Flammability Rating:	PCB Locations:
UL94 V-O	(1) Vertical, Perpendicular
Color:	Mounting:
Light Gray Cover, Black Base	35mm DIN Rail

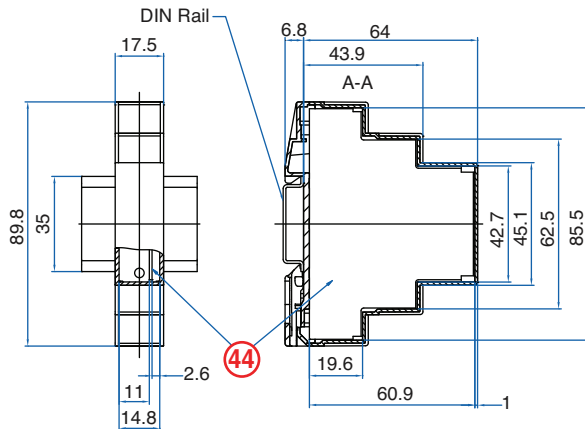
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.800	KU4187B	Without Terminals	None

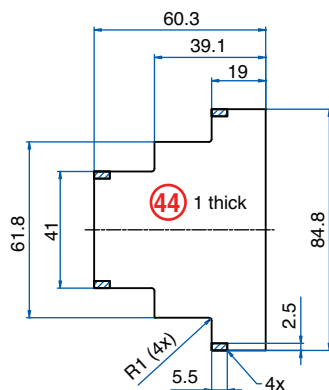
ACCESSORIES

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.)



unused space

12 Terminal

Fixed PCB Blocks



TECHNICAL INFORMATION

Electrical:	Terminal Type:
12A, 250V, 24-12 AWG	Screw / Rising Clamp
Housing Material:	Terminal Screw Size:
Glass-filled Polycarbonate	M2.5
Temperature Range:	Recommended Torque:
Up to 115°C (239°F)	0.4Nm
Flammability Rating:	PCB Locations:
UL94 V-O	(1) Vertical, Perpendicular
Color:	Mounting:
Light Gray Cover, Black Base and Terminals	35mm DIN Rail

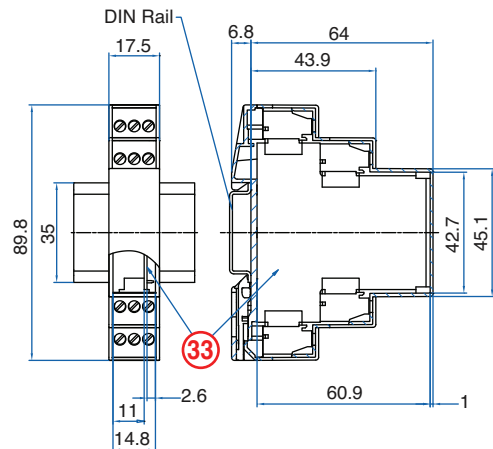
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.801	KU4187F	Fixed PCB Terminal	Machine Solder

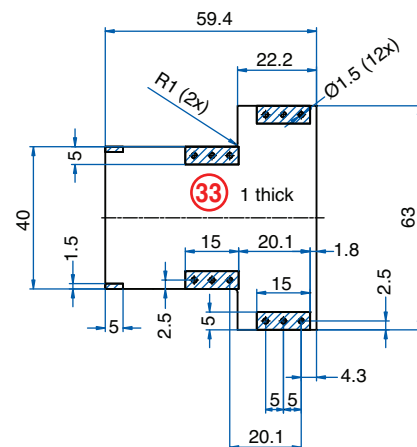
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Cover (12 pole)	91.801.1	TCS/12

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



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



unused space

KU4100 Enclosure Series

12 Terminal

Pluggable PCB
Plugs / Headers



TECHNICAL INFORMATION

Electrical: 12A, 250V, 28-14 AWG	Terminal Type: Screw / Rising Clamp
Housing Material: Glass-filled Polycarbonate	Terminal Screw Size: M2.5
Temperature Range: Up to 115°C (239°F)	Recommended Torque: 0.4Nm
Flammability Rating: UL94 V-O	PCB Locations: (1) Vertical, Perpendicular
Color: Light Gray Cover, Black Base and Terminals	Mounting: 35mm DIN Rail

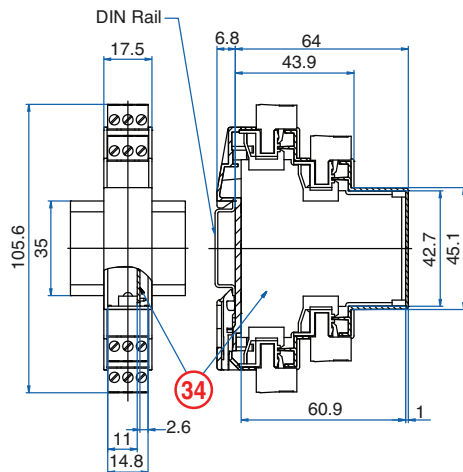
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.802	KU4187P	Pluggable PCB Terminals	Machine Solder

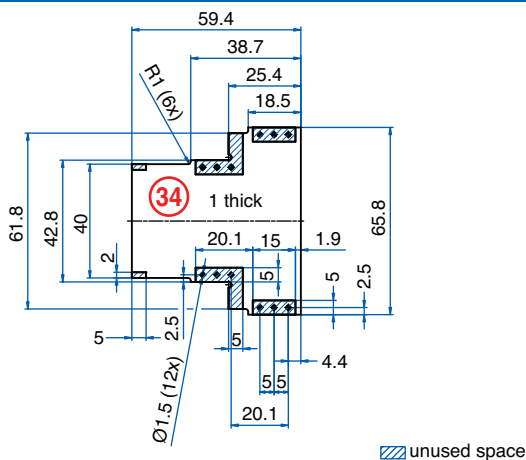
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	251120/1M	TS35x7.5/1M

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



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



8 Terminal

High Current PCB Blocks



TECHNICAL INFORMATION

Electrical: 40A, 250V, 20-8 AWG	Terminal Type: Screw / Rising Clamp
Housing Material: Glass-filled Polycarbonate	Terminal Screw Size: M3.5
Temperature Range: Up to 115°C (239°F)	Recommended Torque: 1.2Nm
Flammability Rating: UL94 V-O	PCB Locations: (1) Vertical, Perpendicular
Color: Light Gray Cover, Black Base	Mounting: 35mm DIN Rail

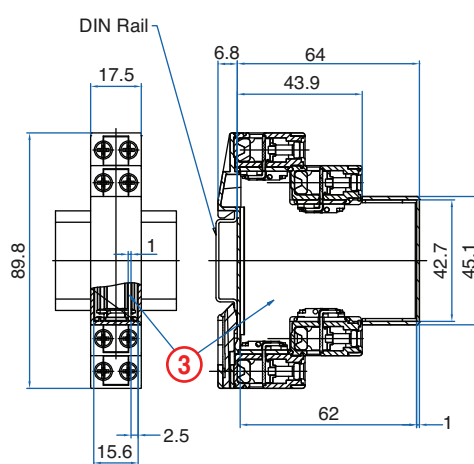
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.803	KU4187HC	High Current Terminals	Machine Solder

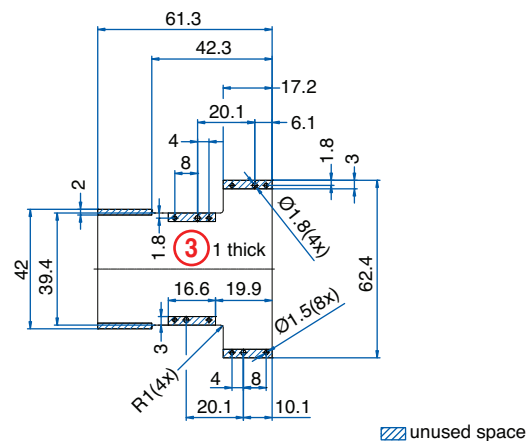
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	251120/1M	TS35x7.5/1M

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



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



35mm Enclosure

Without Terminals



TECHNICAL INFORMATION

Electrical:

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Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 115°C (239°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray Cover, Black Base

Terminal Type:

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Terminal Screw Size:

—

Recommended Torque:

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PCB Locations:

(3) Vertical, Parallel

Mounting:

35mm DIN Rail

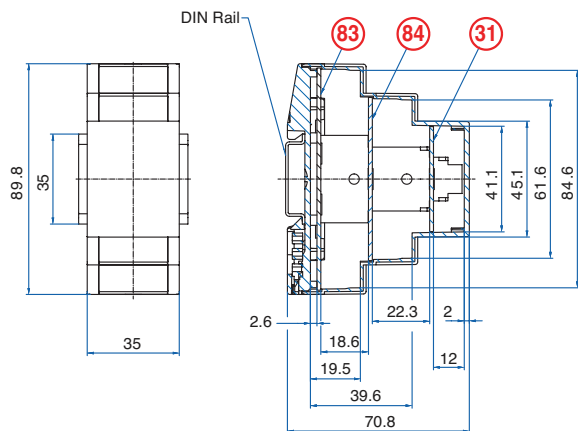
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.810	KU4188B	Without Terminals	None

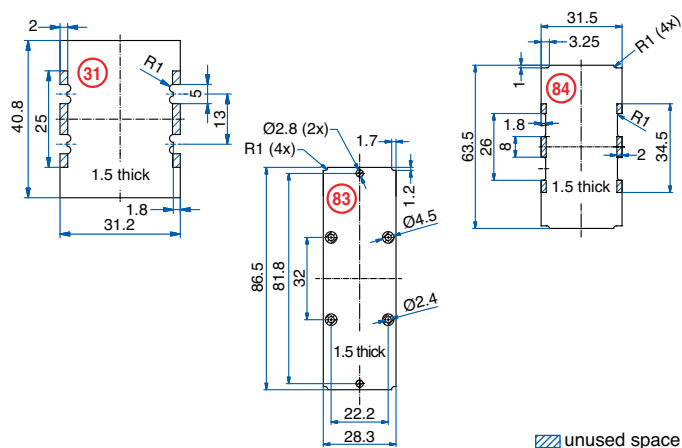
ACCESSORIES

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.)



20 Terminal

Fixed PCB Blocks



TECHNICAL INFORMATION

Electrical:

12A, 250V, 24-12 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 115°C (239°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray Cover, Black Base and Terminals

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

M2.5

Recommended Torque:

0.4Nm

PCB Locations:

(2) Vertical, Parallel

Mounting:

35mm DIN Rail

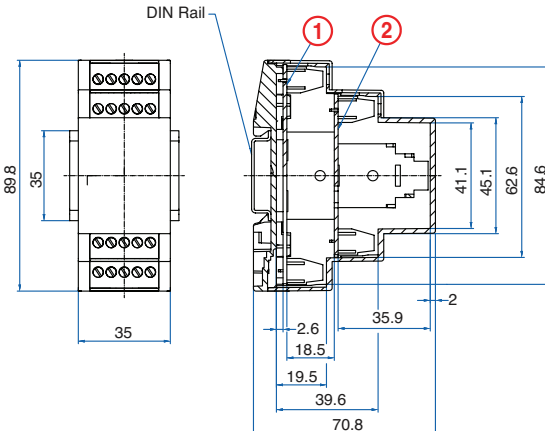
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.811	KU4188F	Fixed PCB Terminal	Machine Solder

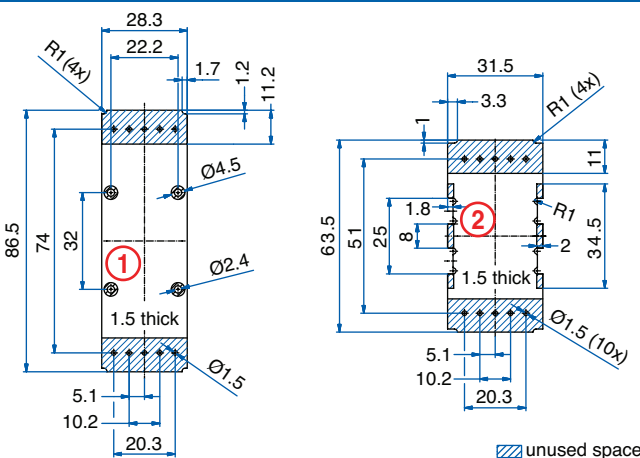
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Cover (12 pole)	91.801.1	TCS/12

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



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



20 Terminal

Pluggable PCB
Plugs / Headers



TECHNICAL INFORMATION

Electrical:

12A, 250V, 28-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 115°C (239°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray Cover, Black Base
and Terminals

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

M2.5

Recommended Torque:

0.4Nm

PCB Locations:

(2) Vertical, Parallel

Mounting:

35mm DIN Rail

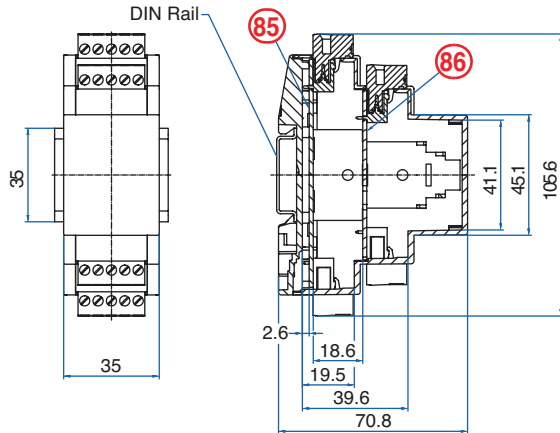
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.812	KU4188P	Pluggable PCB Terminals	Machine Solder

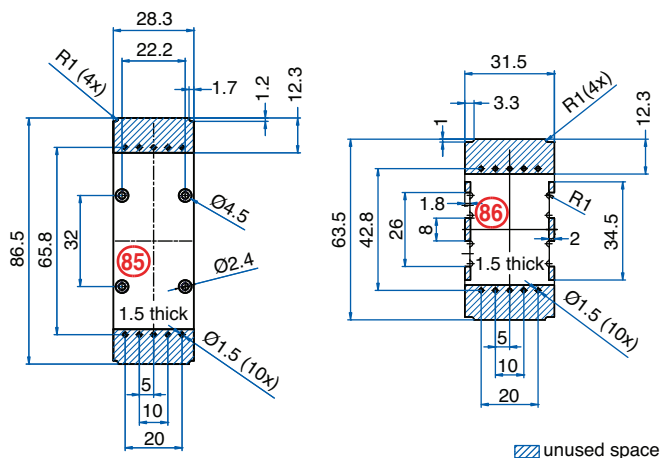
ACCESSORIES

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.)



16 Terminal

High Current PCB Blocks



TECHNICAL INFORMATION

Electrical:

40A, 250V, 20-8 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 115°C (239°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray Cover, Black Base

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

1.2Nm

PCB Locations:

(2) Vertical, Perpendicular

Mounting:

35mm DIN Rail

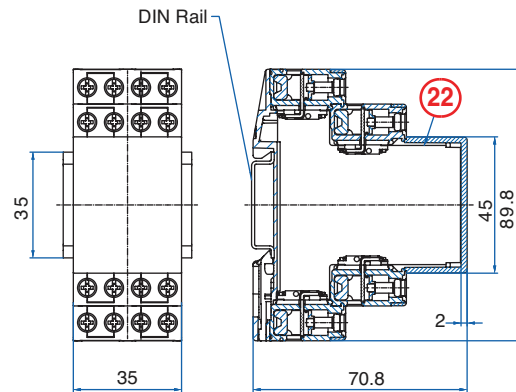
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.813	KU4188HC	High Current Terminals	Machine Solder

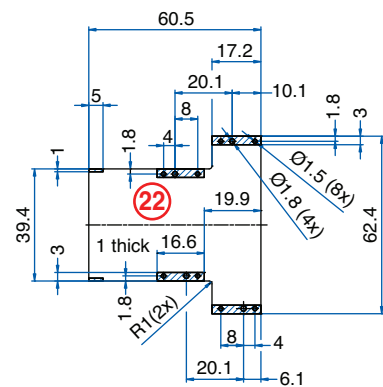
ACCESSORIES

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.)





Glass-filled Polycarbonate

Up to 115°C (239°F)

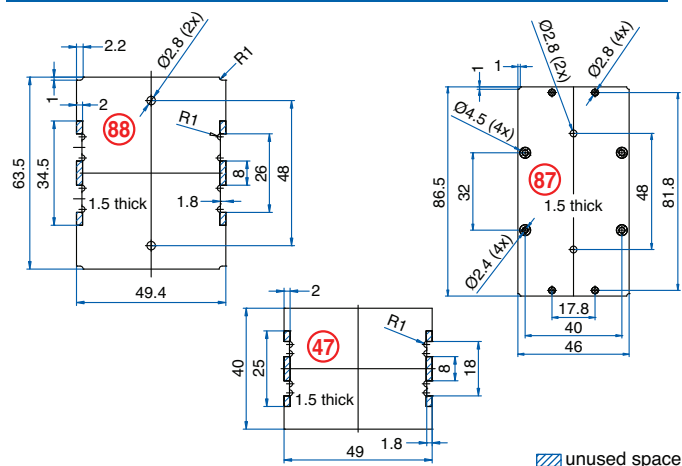
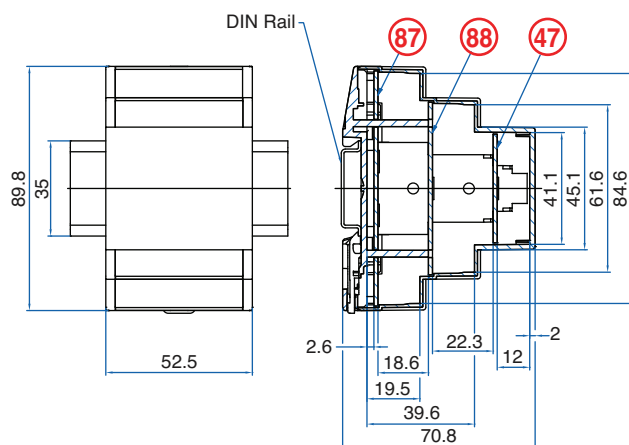
UL94 V-O

Light Gray Cover, Black Base

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(3) Vertical, Parallel

35mm DIN Rail



12A, 250V, 24-12 AWG

Glass-filled Polycarbonate

Up to 115°C (239°F)

UL94 V-O

Light Gray Cover, Black Base
and Terminals

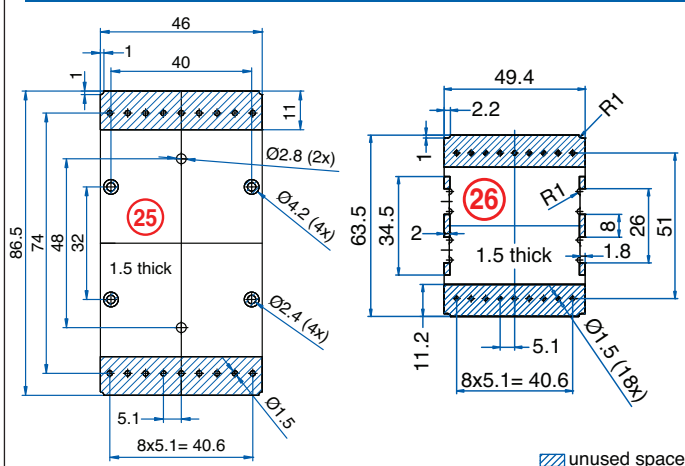
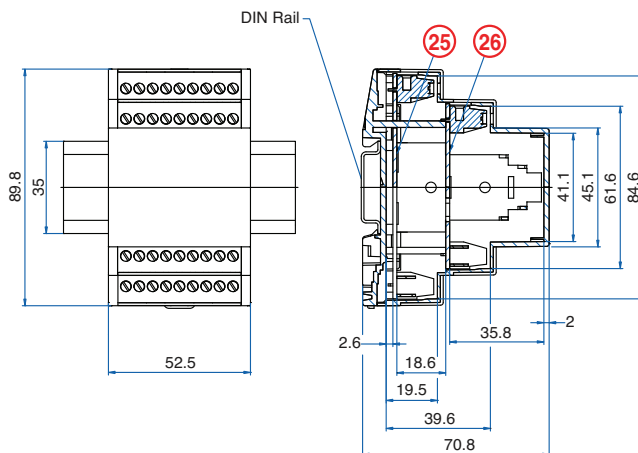
Screw / Rising Clamp

M2.5

0.4Nm

(2) Vertical, Parallel

35mm DIN Rail



72 Terminal

Pluggable PCB
Plugs / Headers



TECHNICAL INFORMATION

Electrical:

12A, 250V, 28-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 115°C (239°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray Cover, Black Base
and Terminals

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

M2.5

Recommended Torque:

0.4Nm

PCB Locations:

(2) Vertical, Parallel

Mounting:

35mm DIN Rail

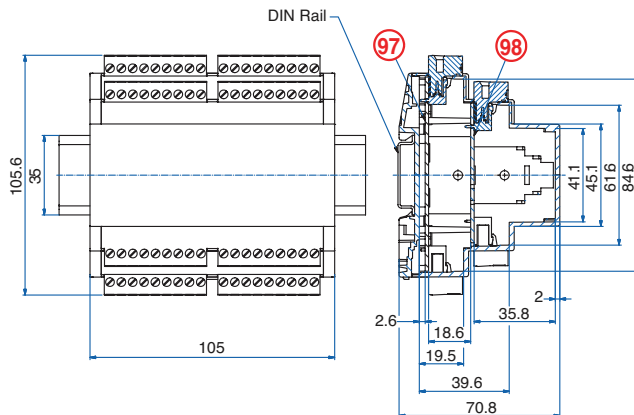
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.842	KU4190P	Pluggable PCB Terminals	Machine Solder

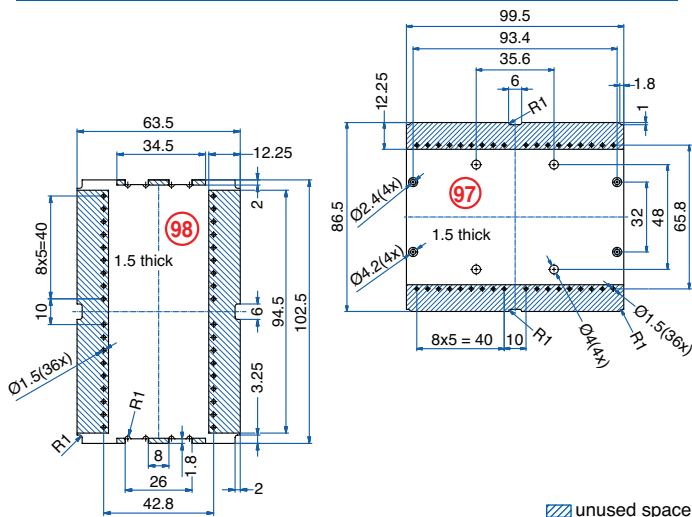
ACCESSORIES

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.)



140mm Enclosure

Without Terminals



TECHNICAL INFORMATION

Electrical:

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Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 115°C (239°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray Cover, Black Base

Terminal Type:

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Terminal Screw Size:

—

Recommended Torque:

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PCB Locations:

(3) Vertical, Parallel

Mounting:

35mm DIN Rail

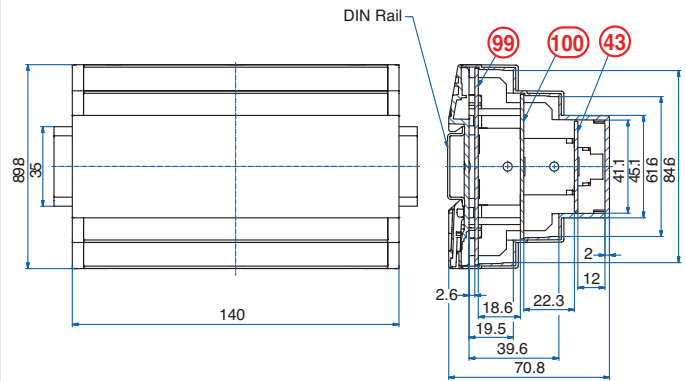
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.850	KU4191B	Without Terminals	None

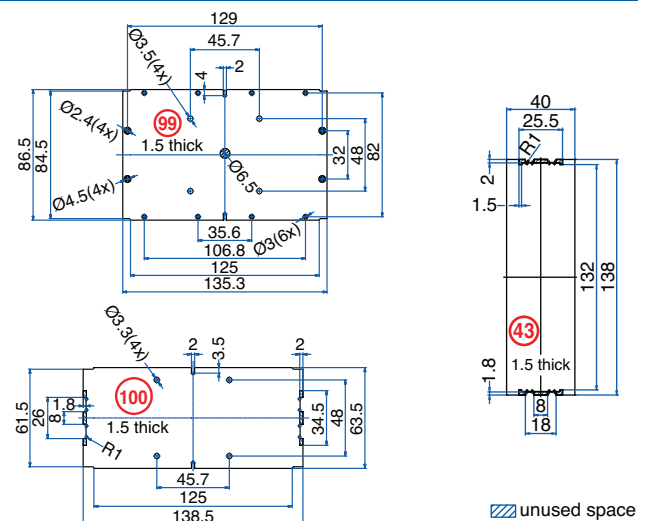
ACCESSORIES

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

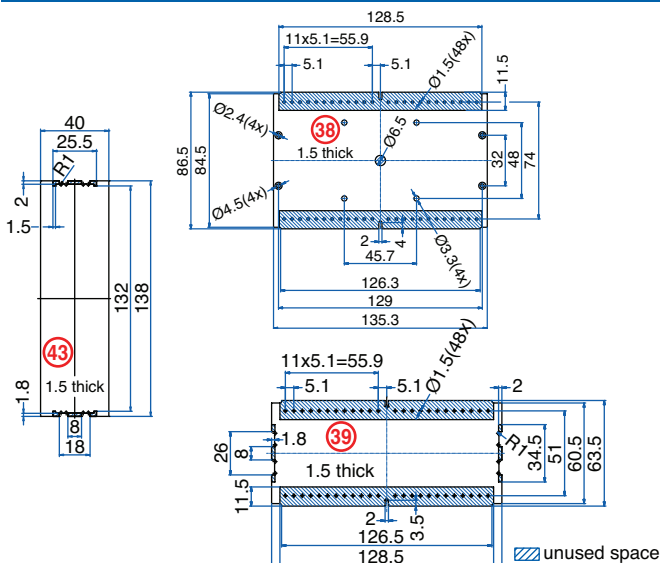
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



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



35mm DIN Rail



35mm DIN Rail

