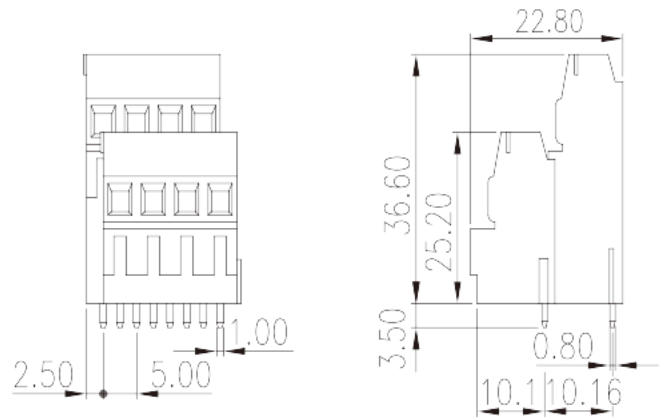


# EK500V2R-XXP

PCB Terminal Blocks &gt; PCB Terminal Blocks

Date:2026-03-25Version:V1



The web catalog is for reference only. Dinkle remains the right of product modification and engineering change of the design.  
The final product is made according to engineering drawing.

## Product Description

Pitch : 5.00mm, 300V, 20A

## General information

|                                        |                                       |
|----------------------------------------|---------------------------------------|
| Short description                      | PCB Terminal Blocks, Screw Connection |
| Category                               | PCB Terminal Blocks                   |
| Pitch (mm)                             | 5                                     |
| Color                                  | Green (default)                       |
| Connection method                      | Screw Connection                      |
| Type of locking                        | Without                               |
| Pin demensions (Thickness x Width)(mm) | 0.8x1.0                               |
| PCB hole diameter (mm)                 | 1.6                                   |
| Level                                  | Double level                          |

## Material information

|                                              |                   |
|----------------------------------------------|-------------------|
| Insulation material                          | PA                |
| Insulation material group                    | I                 |
| Flame retardant rating , compliant with UL94 | V0                |
| Insulation resistance                        | □500MΩ at DC 500V |
| Conductor material                           | COPPER ALLOY      |

Plating of conductor surface

Tin PLATED

## Connection data-IEC

|                                                                                              |      |
|----------------------------------------------------------------------------------------------|------|
| Rated voltage (V)                                                                            | 250  |
| Rated current (A)                                                                            | 24   |
| Rated voltage (II/2)(V)                                                                      | 630  |
| Rated voltage (III/2) (V)                                                                    | 320  |
| Rated voltage (III/3)(V)                                                                     | 250  |
| Rated impulse voltage (II/2)(KV)                                                             | 4    |
| Rated impulse voltage (III/2)(KV)                                                            | 4    |
| Rated impulse voltage (III/3)(KV)                                                            | 4    |
| Conductor cross section solid. min (mm <sup>2</sup> )                                        | 0.14 |
| Conductor cross section solid.max (mm <sup>2</sup> )                                         | 2.5  |
| Conductor cross section stranded. min (mm <sup>2</sup> )                                     | 0.14 |
| Conductor cross section stranded. max (mm <sup>2</sup> )                                     | 2.5  |
| Conductor cross section flexible, with min ferrule without plastic sleeve (mm <sup>2</sup> ) | 0.25 |
| Conductor cross section flexible, with max ferrule without plastic sleeve (mm <sup>2</sup> ) | 1.5  |
| Conductor cross section flexible, with min ferrule with plastic sleeve (mm <sup>2</sup> )    | 0.25 |
| Conductor cross section flexible, with max ferrule with plastic sleeve (mm <sup>2</sup> )    | 1.5  |
| 2 conductors with same cross section, solid, max (mm <sup>2</sup> )                          | 1    |
| 2 conductors with same cross section, stranded, max (mm <sup>2</sup> )                       | 0.75 |
| Screw thread                                                                                 | M2.5 |
| Rated torque (N.m)                                                                           | 0.5  |
| Stripping Length (mm)                                                                        | 6~7  |

## Connection data-UL

|                                                 |     |
|-------------------------------------------------|-----|
| Rated voltage (UL/CUL Group B)(V)               | 300 |
| Rated current (UL/CUL Group B)(A)               | 20  |
| Rated voltage (UL/CUL Group D)(V)               | 300 |
| Rated current (UL/CUL Group D)(A)               | 20  |
| Min. solid wire connection (AWG) acc. to UL/CUL | 24  |
| Max. solid wire connection AWG acc. to UL/CUL   | 12  |

|                                                  |    |
|--------------------------------------------------|----|
| Min. stranded wire connection AWG acc. to UL/CUL | 24 |
| Max. stranded wire connection AWG acc. to UL/CUL | 12 |

## Environment & Safety

|                                 |     |
|---------------------------------|-----|
| Finger protection (YES or NO)   | YES |
| Operating temperature. max (°C) | 120 |
| Operating temperature. min (°C) | -40 |

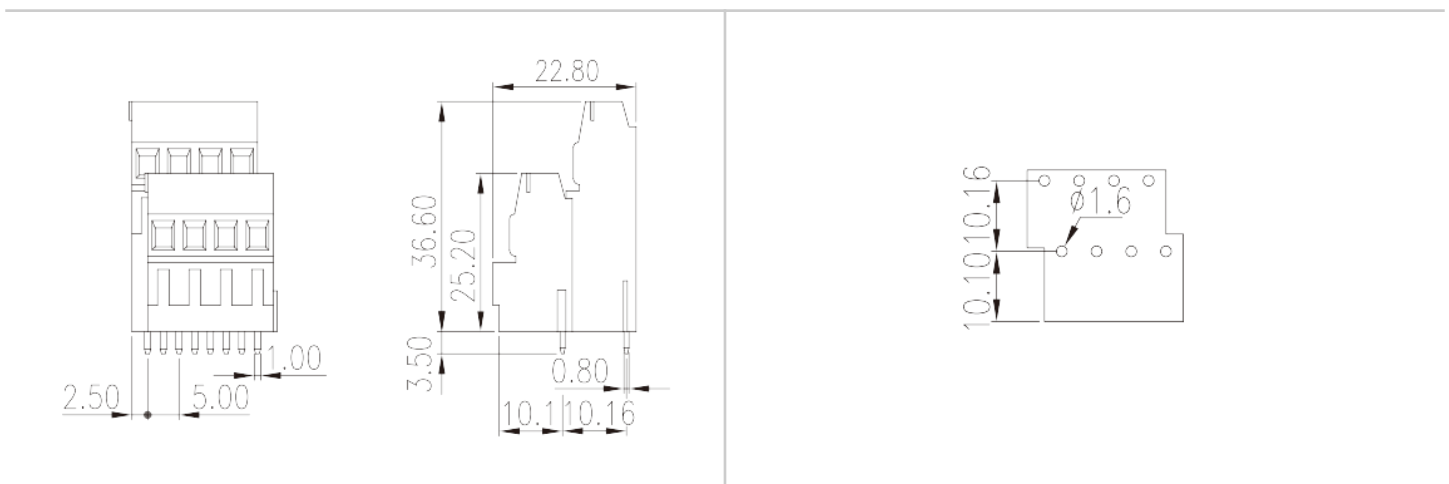
## UL Recognized

|                            |       |
|----------------------------|-------|
| Wire Range (Group B)(AWG)  | 24~12 |
| Rated voltage (Group B)(V) | 300   |
| Rated current (Group B)(A) | 20    |
| Wire Range (Group D)(AWG)  | 24~12 |
| Rated voltage (Group D)(V) | 300   |
| Rated current (Group D)(A) | 20    |

## CUL Recognized

|                            |       |
|----------------------------|-------|
| Wire Range (Group B)(AWG)  | 24~12 |
| Rated voltage (Group B)(V) | 300   |
| Rated current (Group B)(A) | 20    |
| Wire Range (Group D)(AWG)  | 24~12 |
| Rated voltage (Group D)(V) | 300   |
| Rated current (Group D)(A) | 20    |

## Drawings



## Approvals

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