

### Product Configuration Options

|                                                |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   |                   |
|------------------------------------------------|------------------------------------------------|---|-----------------------------------------------------------|---|---|---|---|------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|-------------------|
| <b>OrderCode:</b>                              | IED-EP+/DTRV/E7-TR_H/D3301311000-B220000000-30 |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   |                   |
| <b>Platform:</b> IED-EP+<br>EuroProt+ platform |                                                |   | <b>Type:</b> DTRV<br>Transformer & (generator) protection |   |   |   |   | <b>Configuration:</b> E7-TR_H<br>Automatic voltage regulator in 42HP rack size.<br>(Numbers of binary I/O in the standard configuration:<br>8BOut, 12BIn.) |   |   |   |                   |
| <b>Platform specific options</b>               | Position                                       | 0 | 1                                                         | 2 | 3 | 4 | 5 | 6                                                                                                                                                          | 7 | 8 | 9 | 10                |
|                                                | Value                                          | D | 3                                                         | 3 | 0 | 1 | 3 | 1                                                                                                                                                          | 1 | 0 | 0 | 0                 |
| <b>Config specific options</b>                 | Position                                       | 0 | 1                                                         | 2 | 3 | 4 | 5 | 6                                                                                                                                                          | 7 | 8 | 9 |                   |
|                                                | Value                                          | D | 2                                                         | 2 | 0 | 0 | 0 | 0                                                                                                                                                          | 0 | 0 | 0 |                   |
| <b>Checksum</b>                                | 30                                             |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   |                   |
| <b>Detailed platform specific options</b>      |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   |                   |
| <b>Platform version</b>                        |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   | <b>Position 0</b> |
| Current version                                |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   | D                 |
| <b>Power Supply</b>                            |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   | <b>Position 1</b> |
| 24V                                            |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   | 0                 |
| 48V                                            |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   | 1                 |
| 60V                                            |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   | 2                 |
| 110V                                           |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   | 3                 |
| 220/230V                                       |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   | 4                 |
| <b>I/O modules</b>                             |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   | <b>Position 2</b> |
| 24V                                            |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   | 0                 |
| 48V                                            |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   | 1                 |
| 60V                                            |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   | 2                 |
| 110V (125V)                                    |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   | 3                 |
| 220V                                           |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   | 4                 |
| 110VAC                                         |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   | 5                 |
| 230VAC                                         |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   | 6                 |
| <b>Mounting methods</b>                        |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   | <b>Position 3</b> |
| Rack                                           |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   | 0                 |
| Flush mounting                                 |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   | 1                 |
| Wall mounting                                  |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   | 2                 |
| Semi-flush                                     |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   | 3                 |
| IP54 rated mounting                            |                                                |   |                                                           |   |   |   |   |                                                                                                                                                            |   |   |   | 4                 |

|                                                  |                    |
|--------------------------------------------------|--------------------|
| Wall mounting with terminals                     | 5                  |
| No mounting                                      | 6                  |
| Fold-down mounting                               | 7                  |
| Fold-down mounting with terminals                | 8                  |
| <b>CPU first communication port</b>              | <b>Position 4</b>  |
| N/A                                              | 0                  |
| Fiber optical Ethernet MM/ST                     | 1                  |
| Fiber optical Ethernet SM/FC                     | 2                  |
| PRP/HSR MM/LC                                    | 3                  |
| Fiber optical Ethernet MM/LC                     | 4                  |
| RJ-45                                            | 5                  |
| <b>CPU secondary communication port</b>          | <b>Position 5</b>  |
| N/A                                              | 0                  |
| Fiber optical Ethernet MM/ST                     | 1                  |
| Fiber optical Ethernet SM/FC                     | 2                  |
| RJ-45 Ethernet                                   | 3                  |
| Serial POF                                       | 4                  |
| Serial Double ring POF                           | 5                  |
| Serial glass fiber                               | 6                  |
| RS-485/422                                       | 7                  |
| Fiber optical Ethernet MM/LC                     | 8                  |
| <b>Front panel communication port</b>            | <b>Position 6</b>  |
| RJ-45                                            | 1                  |
| <b>LCD size</b>                                  | <b>Position 7</b>  |
| N/A                                              | 0                  |
| 3.5                                              | 1                  |
| 5.7                                              | 2                  |
| <b>IEC61850 protocol (additional charge)</b>     | <b>Position 8</b>  |
| No                                               | 0                  |
| Yes                                              | 1                  |
| <b>Customization service (additional charge)</b> | <b>Position 9</b>  |
| No                                               | 0                  |
| Yes                                              | 1                  |
| <b>Secondary language</b>                        | <b>Position 10</b> |
| None                                             | 0                  |

|                                         |                   |
|-----------------------------------------|-------------------|
| HUN                                     | 1                 |
| GER                                     | 2                 |
| RUS                                     | 3                 |
| ITA(N/A)                                | 4                 |
| FRA                                     | 5                 |
| ROU                                     | 6                 |
| ESP                                     | 7                 |
| <b>Detailed config specific options</b> |                   |
| <b>Configuration version</b>            | <b>Position 0</b> |
| Current version                         | B                 |
| <b>Default binary input module</b>      | <b>Position 1</b> |
| N/A                                     | 0                 |
| O8                                      | 1                 |
| O12                                     | 2                 |
| O16                                     | 3                 |
| O6R5                                    | 4                 |
| <b>Default binary output module</b>     | <b>Position 2</b> |
| N/A                                     | 0                 |
| R4                                      | 1                 |
| R8                                      | 2                 |
| R12                                     | 3                 |
| R16                                     | 4                 |
| <b>I/O module in position F</b>         | <b>Position 3</b> |
| N/A                                     | 0                 |
| O8                                      | 1                 |
| O12                                     | 2                 |
| O16                                     | 3                 |
| R4                                      | 4                 |
| R8                                      | 5                 |
| R12                                     | 6                 |
| R16                                     | 7                 |
| RTD                                     | 8                 |
| O6R5                                    | 9                 |
| AIC                                     | 10                |
| <b>I/O module in position E</b>         | <b>Position 4</b> |

|                                           |                   |
|-------------------------------------------|-------------------|
| N/A                                       | 0                 |
| O8                                        | 1                 |
| O12                                       | 2                 |
| O16                                       | 3                 |
| R4                                        | 4                 |
| R8                                        | 5                 |
| R12                                       | 6                 |
| R16                                       | 7                 |
| O9S+BNC                                   | 8                 |
| O9S+MM/ST                                 | 9                 |
| ATO                                       | 10                |
| AIC                                       | 11                |
| <b>I/O module in position B</b>           | <b>Position 5</b> |
| N/A                                       | 0                 |
| O8                                        | 1                 |
| O12                                       | 2                 |
| O16                                       | 3                 |
| R4                                        | 4                 |
| R8                                        | 5                 |
| R12                                       | 6                 |
| R16                                       | 7                 |
| RTD                                       | 8                 |
| AIC                                       | 9                 |
| <b>I/O module in position G</b>           | <b>Position 6</b> |
| N/A                                       | 0                 |
| O8                                        | 1                 |
| O12                                       | 2                 |
| O16                                       | 3                 |
| R4                                        | 4                 |
| R8                                        | 5                 |
| R12                                       | 6                 |
| R16                                       | 7                 |
| <b>Number of NC contacts (R8,R12,R16)</b> | <b>Position 7</b> |
| 0                                         | 0                 |
| 1                                         | 1                 |

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|                                                     |                   |
|-----------------------------------------------------|-------------------|
| 2                                                   | 2                 |
| 4                                                   | 3                 |
| 8                                                   | 4                 |
| <b>Voltage limitation functions on primary side</b> | <b>Position 8</b> |
| No                                                  | 0                 |
| Yes                                                 | 1                 |
| <b>Current overload limitation on primary side</b>  | <b>Position 9</b> |
| No                                                  | 0                 |
| Yes                                                 | 1                 |