

# Current Monitoring Relays

AKC Series



AKC series Current Monitoring Relays measure system currents, and shut down systems when measured current values are below or above defined levels.



CT-25

Direct monitoring up to 60A with CT-25

## PRODUCT SELECTION TABLE

| Product Code |  | Under Current Protection | Over Current Protection | .../5A | CT-25 | Pcs / Box |
|--------------|--|--------------------------|-------------------------|--------|-------|-----------|
| AKC-01D      | Low Current Protection (0,5-5A)                          | ●                        |                         | ●      |       | 16        |
| AKC-01A      | Over Current Protection (0,5-5A)                         |                          | ●                       | ●      |       | 16        |
| AKC-03D      | Low Current Protection (between 1,5 and 60A with CT-25)  | ●                        |                         |        | ●     | 12        |
| AKC-03A      | Over Current Protection (between 1,5 and 60A with CT-25) |                          | ●                       |        | ●     | 12        |

\* Please check page 74 for further information about CT-25.

## SPECIFICATIONS

|                             | AKC-01D   | AKC-01A | AKC-03D  | AKC-03A |
|-----------------------------|---|---------|--|---------|
| <b>ENCLOSURE</b>            |   |         |  |         |
| Dimensions                  | DIN II TYPE PK28  |         |  |         |
| Weight                      | 0,25kg / pcs.   |         |  |         |
| Protection Class            | IP20  |         |  |         |
| <b>MEASUREMENTS</b>         |   |         |  |         |
| Current Adjustment Interval | 0,5-5A  |         | With 1 turn 6-60A / with 2 turn 3-30A<br>With 3 turn 2-20A / with 4 turn 1,5-15A |         |
| Current Transformer Ratio   | .../5A  |         | Defined ranges are for CT-25   |         |
| <b>SUPPLY</b>               |   |         |  |         |
| Operating Voltage           | 230 VAC±10%   |         |  |         |
| Operating Frequency         | 50/60 Hz  |         |  |         |
| <b>OUTPUT</b>               |   |         |  |         |
| Start-up Delay              | 1-6 s.  |         |  |         |
| Tripping Delay              | 0,5-2,5 s.  |         |  |         |
| Output Contact              | 1C/O 8A 2000VA  |         |  |         |
| <b>AMBIENT CONDITIONS</b>   |   |         |  |         |
| Ambient Temperature         | -5 / +55°C ; 90%  |         |  |         |
| Over Voltage Category       | III   |         |  |         |
| <b>CONNECTIONS</b>          |   |         |  |         |
| Mounting                    | Rail Mounting   |         |  |         |
| Connection Types            | Single phase 2 wires (voltage) ; .../5A current transformer or with CT 25 (current) |         |  |         |
| <b>STANDARDS</b>            |   |         |  |         |
| Applied Standards           | EC 61010-1, IEC61000-6-2  |         |  |         |

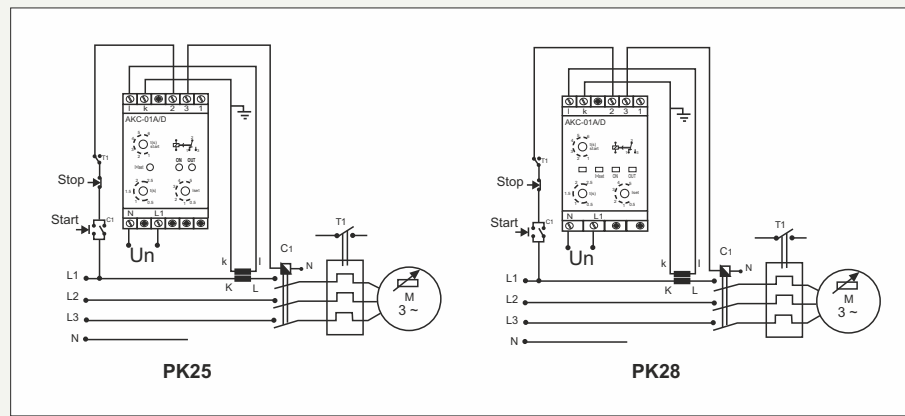


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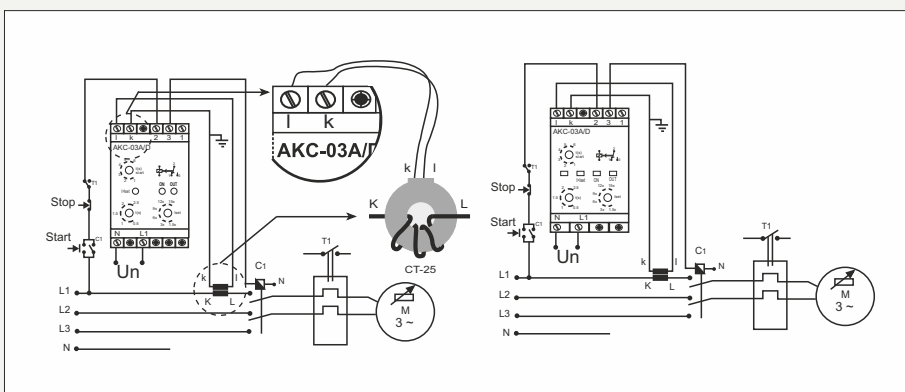
## Connection Diagrams

AKC-01A/AKC-01D



AKC-3A / AKC-3D series must be used if current exceeds 5A.

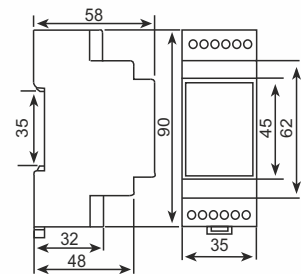
AKC-03A/AKC-03D



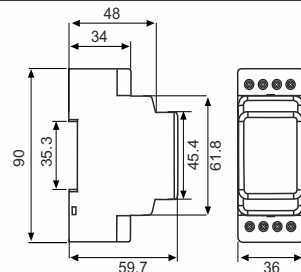
PK25

PK28

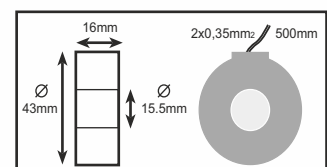
## Dimensions



TYPE PK25



TYPE PK 28

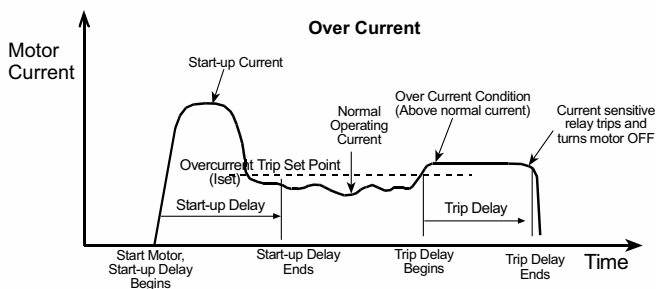
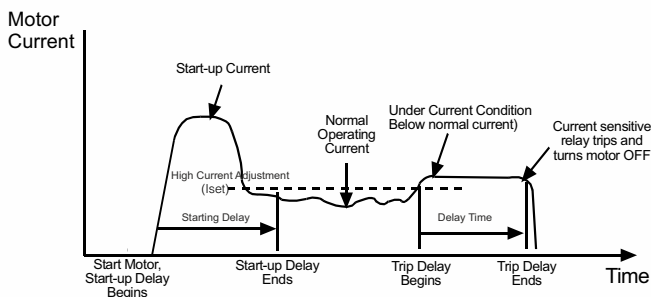


CT-25

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- 6 - 60A with 1 turn
- 3 - 30A with 2 turn
- 2 - 20A with 3 turn
- 1,5 - 15A with 4 turn



Connection diagrams are given for reference. Please always check the latest user manual given with product or download from [www.entec.com.tr](http://www.entec.com.tr)

