

circuit breaker 3VA2 IEC frame 160 breaking capacity class E  
Icu=200 kA @ 415 V 3-pole motor protection ETU350M, LSI, In=63A  
overload protection Ir=25A ... 63A short circuit protection  
Isd=3...15xIr, li=15xIn cable connection



| Model                                          |                             |
|------------------------------------------------|-----------------------------|
| Product brand name                             | SETRON                      |
| Product designation                            | Molded case circuit breaker |
| Product version                                | Motor protection            |
| Design of the overcurrent release              | ETU350M                     |
| Protective function of the overcurrent release | I                           |
| Number of poles                                | 3                           |

| General technical data                                                                         |          |
|------------------------------------------------------------------------------------------------|----------|
| Rated insulation voltage Ui                                                                    | 800 V    |
| Max. rated operational voltage Ue with AC 50/60Hz                                              | 690 V    |
| Operating power / at AC-3 / at 400 V                                                           | 30 000 W |
| Operating power / at AC-3 / at 230 V                                                           | 18 500 W |
| Power loss [W] / maximum                                                                       | 3.1 W    |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 1.03 W   |
| Mechanical service life (switching cycles) / typical                                           | 20 000   |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz                      | 12 000   |

|                                                                       |         |
|-----------------------------------------------------------------------|---------|
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz | 8 000   |
| Neutral conductors / upgradeable/retrofitable                         | No      |
| Ground fault monitoring version                                       | Without |
| Product function                                                      |         |
| • communication function                                              | No      |
| • Phase failure detection                                             | Yes     |
| • other measurement function                                          | No      |

#### Current

|                                                  |       |
|--------------------------------------------------|-------|
| Max. rated operational current of the frame size | 160 A |
| Rated continuous current I <sub>u</sub>          | 63 A  |
| Operating current                                |       |
| • at 40 °C                                       | 63 A  |
| • at 45 °C                                       | 63 A  |
| • at 50 °C                                       | 63 A  |
| • at 55 °C                                       | 63 A  |
| • at 60 °C                                       | 63 A  |
| • at 65 °C                                       | 63 A  |
| • at 70 °C                                       | 63 A  |

#### Switching capacity according to IEC 60947

|                                                                        |        |
|------------------------------------------------------------------------|--------|
| Maximum short-circuit current breaking capacity (I <sub>cu</sub> )     |        |
| • at 415 V                                                             | 200 kA |
| • at 690 V                                                             | 85 kA  |
| Operational short-circuit current breaking capacity (I <sub>cs</sub> ) |        |
| • at 415 V                                                             | 200 kA |
| • at 690 V                                                             | 65 kA  |
| Short-circuit current making capacity (I <sub>cm</sub> )               |        |
| • at 415 V                                                             | 440 kA |
| • at 690 V                                                             | 187 kA |

#### Adjustable parameters

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Adjustable response value current / I <sub>r</sub> min.                 | 25 A   |
| Adjustable response value current / I <sub>r</sub> max.                 | 63 A   |
| Adjustable response value current / I <sub>sd</sub> min.                | 189 A  |
| Adjustable response value current / I <sub>sd</sub> max.                | 945 A  |
| Adjustable response value time / t <sub>sd</sub> min.                   | 0.03 s |
| Adjustable response value time / t <sub>sd</sub> max.                   | 0.03 s |
| Adjustable response value current / I <sub>i</sub> min.                 | 95 A   |
| Adjustable response value current / I <sub>i</sub> max.                 | 756 A  |
| Ground fault protection / tripping switchable / I <sub>2t</sub> =ON/OFF | No     |

| Mechanical Design                                                                   |                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Height [in]                                                                         | 7.1 in                                                                              |                                                                                     |                                                                                     |
| Height                                                                              | 181 mm                                                                              |                                                                                     |                                                                                     |
| Width [in]                                                                          | 4.1 in                                                                              |                                                                                     |                                                                                     |
| Width                                                                               | 105 mm                                                                              |                                                                                     |                                                                                     |
| Depth [in]                                                                          | 3.4 in                                                                              |                                                                                     |                                                                                     |
| Depth                                                                               | 86 mm                                                                               |                                                                                     |                                                                                     |
| Connections                                                                         |                                                                                     |                                                                                     |                                                                                     |
| Arrangement of electrical connectors / for main current circuit                     | Front terminal                                                                      |                                                                                     |                                                                                     |
| Type of electrical connection / for main current circuit                            | double-sided box terminal                                                           |                                                                                     |                                                                                     |
| Type of connectable conductor cross-section, round conductor terminal, stranded     | 1 x (6-120 mm²)                                                                     |                                                                                     |                                                                                     |
| Auxiliary circuit                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Number of CO contacts / for auxiliary contacts                                      | 0                                                                                   |                                                                                     |                                                                                     |
| Accessories                                                                         |                                                                                     |                                                                                     |                                                                                     |
| Product extension / optional / motor drive                                          | Yes                                                                                 |                                                                                     |                                                                                     |
| Environmental conditions                                                            |                                                                                     |                                                                                     |                                                                                     |
| Protection class IP / on the front                                                  | IP40                                                                                |                                                                                     |                                                                                     |
| Ambient temperature                                                                 |                                                                                     |                                                                                     |                                                                                     |
| • during operation / minimum                                                        | -25 °C                                                                              |                                                                                     |                                                                                     |
| • during operation / maximum                                                        | 70 °C                                                                               |                                                                                     |                                                                                     |
| • during storage / minimum                                                          | -40 °C                                                                              |                                                                                     |                                                                                     |
| • during storage / maximum                                                          | 80 °C                                                                               |                                                                                     |                                                                                     |
| Certificates                                                                        |                                                                                     |                                                                                     |                                                                                     |
| Reference code / acc. to DIN EN 81346-2                                             | Q                                                                                   |                                                                                     |                                                                                     |
| General Product Approval                                                            | EMC                                                                                 | Declaration of Conformity                                                           | Test Certificates                                                                   |
| <a href="#">Miscellaneous</a>                                                       |  |  |  |
|                                                                                     | EAC                                                                                 | RCM                                                                                 | EG-Konf.                                                                            |
|                                                                                     |                                                                                     |                                                                                     | <a href="#">Miscellaneous</a> <a href="#">Special Test Certificate</a>              |
| Shipping Approval                                                                   | other                                                                               |                                                                                     |                                                                                     |
|  | <a href="#">CCS / China Classification Society</a>                                  | <a href="#">Manufacturer Declaration</a>                                            | <a href="#">Miscellaneous</a>                                                       |
| LRS                                                                                 |                                                                                     |                                                                                     |                                                                                     |
| Further information                                                                 |                                                                                     |                                                                                     |                                                                                     |

<http://www.siemens.com/lowvoltage/catalogs>

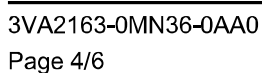
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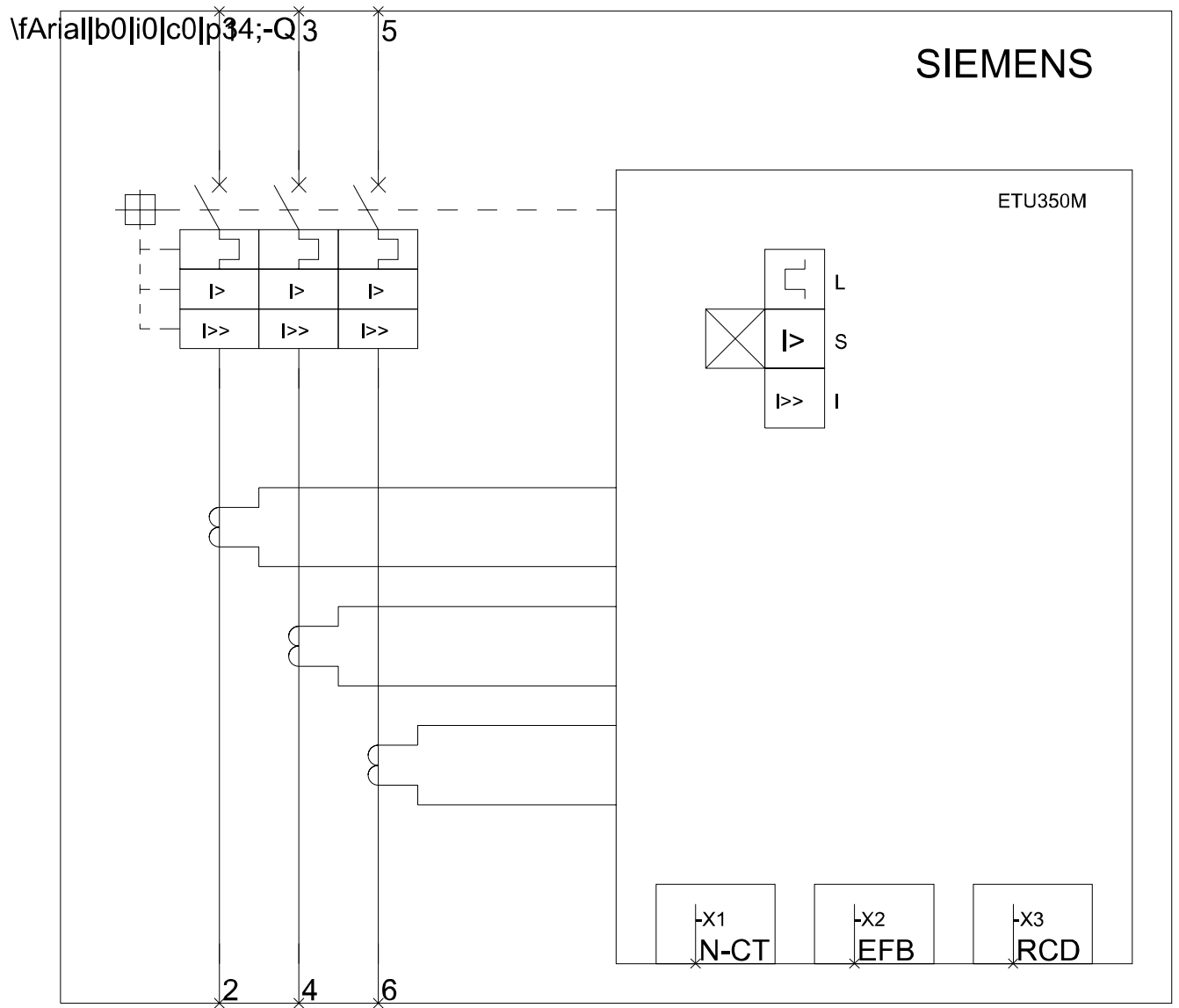
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