

fixed-mounted circuit breaker 3-pole, size II, IEC In=1250A to 690V, AC50/60Hz  
Icu=80kA at 500V rear connection horizontal Overcurrent release ETU45 LSIN  
protection adjustable 0.4-1 in with display and cubicle bus Opt.: Comm. /measuring  
func./ground fault/ ZSS With manual operating mechanism with storage with  
mechanical request without 1st auxiliary release without 2nd auxiliary release  
2NO+2NC

| Model                                                                        |                                                    |
|------------------------------------------------------------------------------|----------------------------------------------------|
| product brand name                                                           | SENTRON                                            |
| product designation                                                          | ACB                                                |
| design of the product                                                        | IEC 60947-2                                        |
| design of the actuating element                                              | Pushbutton                                         |
| type of the driving mechanism                                                | Manual operating mechanism with mechanical closing |
| type of the driving mechanism / motor drive                                  | No                                                 |
| design of the overcurrent release                                            | ETU45B                                             |
| General technical data                                                       |                                                    |
| number of poles                                                              | 3                                                  |
| size of the circuit-breaker                                                  | 2                                                  |
| utilization category                                                         | B                                                  |
| circuit-breaker / Design                                                     | 3WL1                                               |
| Voltage                                                                      |                                                    |
| Rated insulation voltage Ui                                                  | 1 000 V                                            |
| insulation voltage / rated value                                             | 1 000 V                                            |
| operating voltage                                                            |                                                    |
| • at AC / at 50/60 Hz / rated value                                          | 690 V                                              |
| Protection class                                                             |                                                    |
| protection class IP                                                          | IP20                                               |
|                                                                              |                                                    |
| • protection class IP / on the front                                         | IP20                                               |
| • protection function of the overcurrent release                             | LSIN                                               |
| Dissipation                                                                  |                                                    |
| power loss [W]                                                               |                                                    |
| • for rated value of the current / at AC / in hot operating state / per pole | 26.7 W                                             |
| • maximum                                                                    | 80 W                                               |
| Main circuit                                                                 |                                                    |
| operating frequency                                                          |                                                    |
| • 1 / rated value                                                            | 50 Hz                                              |
| • 2 / rated value                                                            | 60 Hz                                              |
| Auxiliary circuit                                                            |                                                    |
| number of NC contacts / for auxiliary contacts                               | 2                                                  |
| number of NO contacts / for auxiliary contacts                               | 2                                                  |
| Suitability                                                                  |                                                    |
| suitability for use                                                          | Plant / motor protection                           |
| Product details                                                              |                                                    |
| product component                                                            |                                                    |
| • trip indicator                                                             | Yes                                                |
| • voltage trigger                                                            | No                                                 |
| • undervoltage release                                                       | No                                                 |
| design of the auxiliary switch                                               | 2 NO + 2 NC                                        |
| product extension / optional / motor drive                                   | Yes                                                |
| Product function                                                             |                                                    |
| product function                                                             |                                                    |
| • grounding protection                                                       | No                                                 |
| • phase failure detection                                                    | Yes                                                |

| Display and operation                                                                                                                                                                   |                                                    |                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------------|
| display version                                                                                                                                                                         | WITH 4-LINE DISPLAY                                |                                                                                       |
| Short circuit                                                                                                                                                                           |                                                    |                                                                                       |
| operating short-circuit current breaking capacity (Ics)                                                                                                                                 |                                                    |                                                                                       |
| • at 415 V / rated value                                                                                                                                                                | 80 kA                                              |                                                                                       |
| • at 500 V / rated value                                                                                                                                                                | 80 kA                                              |                                                                                       |
| • at 690 V / rated value                                                                                                                                                                | 75 kA                                              |                                                                                       |
| maximum short-circuit current breaking capacity (Icu)                                                                                                                                   |                                                    |                                                                                       |
| • at 415 V / rated value                                                                                                                                                                | 80 kA                                              |                                                                                       |
| • at 500 V / rated value                                                                                                                                                                | 80 kA                                              |                                                                                       |
| • at 690 V / rated value                                                                                                                                                                | 75 kA                                              |                                                                                       |
| Connections                                                                                                                                                                             |                                                    |                                                                                       |
| arrangement of electrical connectors / for main current circuit                                                                                                                         | Main connection rear side horizontal               |                                                                                       |
| type of electrical connection / for main current circuit                                                                                                                                | busbar connection                                  |                                                                                       |
| Mechanical Design                                                                                                                                                                       |                                                    |                                                                                       |
| height                                                                                                                                                                                  | 440.5 mm                                           |                                                                                       |
| width                                                                                                                                                                                   | 460 mm                                             |                                                                                       |
| depth                                                                                                                                                                                   | 337 mm                                             |                                                                                       |
| fastening method                                                                                                                                                                        | fixed mounting                                     |                                                                                       |
| Environmental conditions                                                                                                                                                                |                                                    |                                                                                       |
| ambient temperature / during operation                                                                                                                                                  |                                                    |                                                                                       |
| • minimum                                                                                                                                                                               | -20 °C                                             |                                                                                       |
| • maximum                                                                                                                                                                               | 55 °C                                              |                                                                                       |
| ambient temperature / during storage                                                                                                                                                    |                                                    |                                                                                       |
| • minimum                                                                                                                                                                               | -40 °C                                             |                                                                                       |
| • maximum                                                                                                                                                                               | 70 °C                                              |                                                                                       |
| General Product Approval                                                                                                                                                                |                                                    | EMC                                                                                   |
| <a href="#">Confirmation</a>                                                                                                                                                            |                                                    | Declaration of Conformity                                                             |
|                                                                                                      |                                                    |    |
|                                                                                                      |                                                    |  |
|                                                                                                                                                                                         |                                                    |  |
| Test Certificates                                                                                                                                                                       |                                                    | Marine / Shipping                                                                     |
| <a href="#">Miscellaneous</a>                                                                                                                                                           | <a href="#">Type Test Certificates/Test Report</a> | <a href="#">Special Test Certificate</a>                                              |
|                                                                                                                                                                                         |                                                    |    |
|                                                                                                                                                                                         |                                                    |  |
|                                                                                                                                                                                         |                                                    |  |
| Marine / Shipping                                                                                                                                                                       |                                                    | other                                                                                 |
|                                                                                                      | <a href="#">CCS / China Classification Society</a> |    |
|                                                                                                                                                                                         |                                                    | <a href="#">Miscellaneous</a>                                                         |
|                                                                                                                                                                                         |                                                    | <a href="#">Confirmation</a>                                                          |
|                                                                                                                                                                                         |                                                    | <a href="#">Miscellaneous</a>                                                         |
| Dangerous Good                                                                                                                                                                          |                                                    | Environment                                                                           |
| <a href="#">Transport Information</a>                                                                                                                                                   | <a href="#">Environmental Confirmations</a>        |                                                                                       |
| Further information                                                                                                                                                                     |                                                    |                                                                                       |
| Information on the packaging                                                                                                                                                            |                                                    |                                                                                       |
| <a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a>                                                 |                                                    |                                                                                       |
| Industry Mall (Online ordering system)                                                                                                                                                  |                                                    |                                                                                       |
| <a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1212-3FB32-1AA2">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1212-3FB32-1AA2</a> |                                                    |                                                                                       |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,...)                                                                                                                      |                                                    |                                                                                       |
| <a href="https://support.industry.siemens.com/cs/ww/en/ps/3WL1212-3FB32-1AA2">https://support.industry.siemens.com/cs/ww/en/ps/3WL1212-3FB32-1AA2</a>                                   |                                                    |                                                                                       |







