## SIEMENS

## Data sheet

## 3VL2710-1SL36-0AA0

circuit breaker VL160N standard breaking capacity Icu=55kA, 415V AC 3-pole, line protection Electronic Trip Unit ETU12, LIG 3 phases/3 lines In=100A, rated current IR=40...100A, overload protection, II=1.25 to 11xIN, short-circuit protection with screw terminals without auxiliary release without auxiliary/alarm switch

| Model   | screw terminals without auxiliary release without auxiliary/alarm switch |
|---|--|
| type of the driving mechanism motor drive   | No   |
| design of the overcurrent release   | ETU12  |
| General technical data  |  |
| number of poles   | 3  |
| size of the circuit-breaker   | 3VL2   |
| mechanical service life (operating cycles) typical  | 20 000   |
| electrical endurance (operating cycles) typical   | 10 000   |
| utilization category  | A  |
| performance class for circuit breaker   | Ν  |
| reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750            | Q  |
| operating frequency maximum   | 120 1/s  |
| /oltage   |  |
| Rated operational voltage Ue max.   | 690 V  |
|   |  |
| <ul> <li>insulation voltage rated value</li> </ul>  | 800 V  |
| <ul> <li>insulation voltage (Ui) at AC rated value</li> </ul>   | 800 V  |
| surge voltage resistance rated value  | 8 kV   |
| operating voltage   |  |
| rated value maximum   | 690 V  |
| <ul> <li>for main current circuit at AC at 50 Hz maximum</li> </ul>                                   | 690 V  |
| <ul> <li>for main current circuit at AC at 60 Hz maximum</li> </ul>                                   | 690 V  |
| <ul> <li>for main current circuit at DC maximum</li> </ul>  | 500 V  |
| Protection class  |  |
| protection class IP   | IP20   |
| protection function of the overcurrent release  | LIG  |
| Main circuit  |  |
| operating frequency   |  |
| • 1 rated value   | 50 Hz  |
| • 2 rated value   | 60 Hz  |
| Auxiliary circuit   |  |
| number of CO contacts for auxiliary contacts  | 0  |
| number of NC contacts for auxiliary contacts  | 0  |
| number of NO contacts for auxiliary contacts  | 0  |
| Suitability   |  |
| suitability for use   | system protection  |
| Adjustable parameters   |  |
| adjustable current response value current of the current-<br>dependent overload release initial value | 40 A   |
| Product details   |  |
| product component   |  |
| trip indicator  | No   |
| auxiliary switch  | No   |
| voltage trigger   | No   |
| undervoltage release  | No   |
| <ul> <li>undervoltage release with leading contact</li> </ul>   | No   |
| product extension optional motor drive  | Yes  |
| Product function  |  |
| product function  |  |

product function

| • of thermal overload trip unit   | adjustable                       |                       |
|---|----------------------------------|-----------------------|
| <ul> <li>grounding protection</li> </ul>                                    | Yes                              |                       |
| <ul> <li>for neutral conductors short-circuit and overload proof</li> </ul> | No                               |                       |
| overload protection   | Yes                              |                       |
| Short circuit   |                                  |                       |
| operating short-circuit current breaking capacity (lcs)                     |                                  |                       |
| at 240 V rated value  | 65 kA                            |                       |
| • at 415 V rated value  | 55 kA                            |                       |
| • at 500 V rated value  | 20 kA                            |                       |
| at 690 V rated value  | 6 kA                             |                       |
| maximum short-circuit current breaking capacity (Icu)                       |                                  |                       |
| <ul> <li>at 240 V rated value</li> </ul>                                    | 65 kA                            |                       |
| <ul> <li>at 415 V rated value</li> </ul>                                    | 55 kA                            |                       |
| • at 440 V rated value  | 25 kA                            |                       |
| <ul> <li>at 480 V according to NEMA rated value</li> </ul>                  | 25 kA                            |                       |
| <ul> <li>at 500 V rated value</li> </ul>                                    | 25 kA                            |                       |
| <ul> <li>at 600 V according to NEMA rated value</li> </ul>                  | 12 kA                            |                       |
| • at 690 V rated value  | 12 kA                            |                       |
| Connections   |                                  |                       |
| arrangement of electrical connectors for main current circuit               | front side                       |                       |
| type of connectable conductor cross-sections for main contacts              |                                  |                       |
| <ul> <li>with flexible busbar</li> </ul>                                    | 12 x 10 mm                       |                       |
| • solid   | 2.5 95 mm²                       |                       |
| <ul> <li>finely stranded with core end processing</li> </ul>                | 2.5 50 mm²                       |                       |
| stranded  | 2.5 95 mm²                       |                       |
| type of connectable conductor cross-sections for auxiliary<br>contacts      |                                  |                       |
| • solid   | 0.75 1.5 mm²                     |                       |
| <ul> <li>finely stranded with core end processing</li> </ul>                | 0,75 1.0 mm²                     |                       |
| type of electrical connection for main current circuit                      | screw-type terminals             |                       |
| Mechanical Design   |                                  |                       |
| height  | 174.5 mm                         |                       |
| width   | 104.5 mm                         |                       |
| depth   | 106.5 mm                         |                       |
| fastening method  | fixed mounting                   |                       |
| Environmental conditions  |                                  |                       |
| ambient temperature during operation  |                                  |                       |
| • minimum   | -25 °C                           |                       |
| • maximum   | 70 °C                            |                       |
| ambient temperature during storage  |                                  |                       |
| • minimum   | -40 °C                           |                       |
| • maximum   | 80 °C                            |                       |
| Approvals Certificates  |                                  |                       |
| General Product Approval  | Т                                | est Certificates      |
|   |                                  |                       |
|   | <u>»</u> // ГПГ <sup>S</sup>     | pecial Test Certific- |
|   | <sup>™</sup> (€ [A[ <sup>™</sup> | <u>ate</u>            |
|   | EG-Konf.                         |                       |
|   |                                  |                       |
|   |                                  |                       |
| Marine / Shipping   | other                            |                       |
|   |                                  |                       |
|   | Confirmation Miscellaneous       | Miscellaneous         |
|   |                                  |                       |
| DNV RINA RMRS   |                                  |                       |
|   |                                  |                       |
|   |                                  |                       |
| Dangerous Good Environment  |                                  |                       |
|   |                                  |                       |
| Transport Information Environmental Con- Environmental                      | <u>Con-</u>                      |                       |

firmations

Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VL2710-1SL36-0AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VL2710-1SL36-0AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VL2710-1SL36-0AA0 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications

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