



CIRCUIT-BREAKER, SIZE S2,  
FOR MOTOR PROTECTION, CLASS 10,  
A-RES.14...20 A, N-RES. 240 A,  
1 NO + 1 NC TRANSVERSE,  
SCREW CONNECTION,  
STANDARD SWITCHING CAPACITY

### General technical data:

|                                                        |   |                 |
|--------------------------------------------------------|---|-----------------|
| product brand name                                     |   | SIRIUS          |
| Product designation                                    |   | circuit breaker |
| Size of the circuit-breaker                            |   | S2              |
| Number of poles / for main current circuit             |   | 3               |
| Product function                                       |   |                 |
| • removable terminal for auxiliary and control circuit |   | No              |
| • overload protection                                  |   | Yes             |
| • phase disturbance recognition                        |   | Yes             |
| • short-circuit to earth recognition                   |   | No              |
| Product component                                      |   |                 |
| • auxiliary switch                                     |   | Yes             |
| • undervoltage release mechanism                       |   | No              |
| • trip indicator                                       |   | Yes             |
| Product extension                                      |   |                 |
| • auxiliary switch                                     |   | Yes             |
| • optional / motor drive                               |   | Yes             |
| Impulse voltage resistance / rated value               | V | 6,000           |
| Protection class IP / on the front                     |   | IP20            |
| Protection against electrical shock                    |   | finger-safe     |

|                                                              |    |             |
|--------------------------------------------------------------|----|-------------|
| Installation altitude / at a height over sea level / maximum | m  | 2,000       |
| Resistance against shock                                     |    | 25g / 11 ms |
| Ambient temperature                                          |    |             |
| • during transport                                           | °C | -50 ... +80 |
| • during storage                                             | °C | -50 ... +80 |
| • during operating                                           | °C | -20 ... +60 |
| Active power loss / total / typical                          | W  | 12          |

| Main circuit:                                                                  |     |        |
|--------------------------------------------------------------------------------|-----|--------|
| Operating voltage / rated value                                                | V   | 690    |
| Service power / at AC-3 / at 400 V / rated value                               | kW  | 7.5    |
| Operating current / at AC-3 / at 400 V / rated value                           | A   | 20     |
| Mechanical operating cycles as operating time / of the main contacts / typical |     | 50,000 |
| Frequency of operation / with AC-3 / maximum                                   | 1/h | 15     |

| Auxiliary circuit:                                     |   |            |
|--------------------------------------------------------|---|------------|
| Design of the auxiliary switch                         |   | transverse |
| Number of changeover contacts / for auxiliary contacts |   | 0          |
| Operating current / of the auxiliary contacts          |   |            |
| • at AC-15                                             |   |            |
| • at 24 V                                              | A | 2          |
| • at 230 V                                             | A | 0.5        |
| • at DC-13                                             |   |            |
| • at 24 V                                              | A | 1          |
| • at 60 V                                              | A | 0.15       |

| Protection function:                                                    |   |           |
|-------------------------------------------------------------------------|---|-----------|
| Trip class                                                              |   | CLASS 10  |
| Adjustable response current / of the current-dependent overload release | A | 14 ... 20 |

| Installation/mounting/dimensions: |    |                                                                                        |
|-----------------------------------|----|----------------------------------------------------------------------------------------|
| Mounting type                     |    | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| mounting position                 |    | any                                                                                    |
| Depth                             | mm | 149                                                                                    |
| Height                            | mm | 140                                                                                    |
| Width                             | mm | 55                                                                                     |

| Connections:                                                    |  |            |
|-----------------------------------------------------------------|--|------------|
| Arrangement of electrical connectors / for main current circuit |  | front side |
| Design of the electrical connection                             |  |            |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control current circuit</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | screw-type terminals with box terminals<br>screw-type terminals                                                                                                                                                                                                                                                 |
| <b>Type of the connectable conductor cross-section</b> <ul style="list-style-type: none"> <li>• for main contacts             <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded                 <ul style="list-style-type: none"> <li>• with conductor end processing</li> </ul> </li> </ul> </li> <li>• for AWG conductors / for main contacts</li> <li>• for auxiliary contacts             <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded / with conductor end processing</li> </ul> </li> <li>• for AWG conductors / for auxiliary contacts</li> </ul> | 2x (0.75 ... 16 mm <sup>2</sup> )<br><br>2x (0.75 ... 16 mm <sup>2</sup> ), 0.75 ... 25 mm <sup>2</sup><br>2x (18 ... 2), 1x (18 ... 2)<br><br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (18 ... 14) |

#### Certificates/approvals:

##### General Product Approval



##### Test Certificates

[Special Test Certificate](#)

##### Shipping Approval



##### other

[Confirmation](#)

[Declaration of Conformity](#)

[other](#)

[Environmental Confirmations](#)

#### Further information:

##### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

##### Industry Mall (Online ordering system)

<http://www.siemens.com/industrial-controls/mall>

##### Cax online generator:

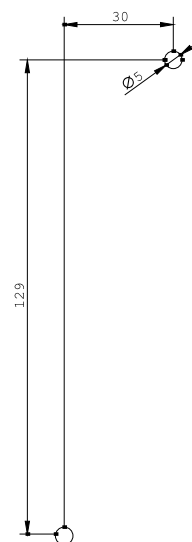
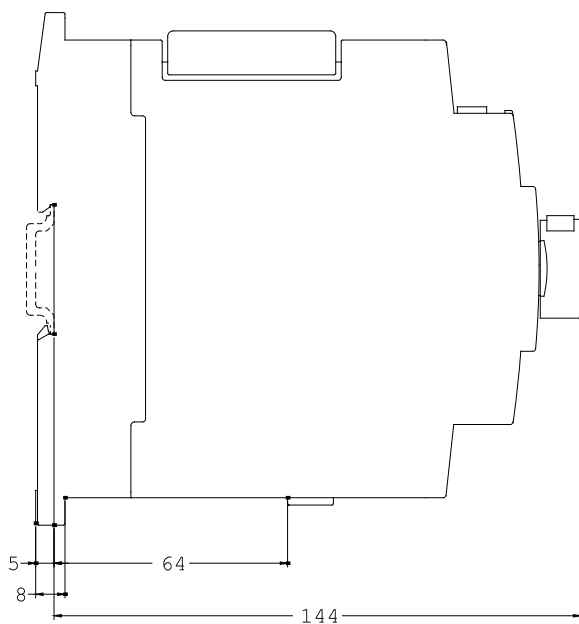
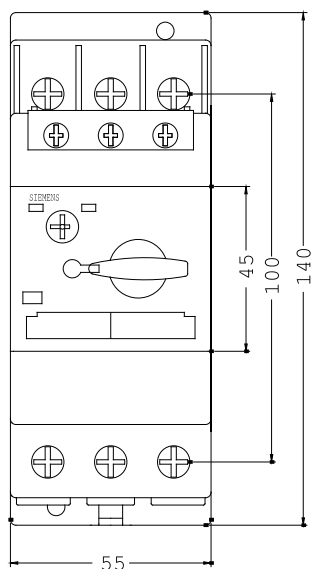
<http://www.siemens.com/cax>

##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RV1031-4BA15/all>

##### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RV1031-4BA15](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV1031-4BA15)



last change:

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