



SIRIUS SOFT STARTER, VALUES AT 400V,  
40DEGREES, STANDARD: 1214A, 710KW, INSIDE  
DELTA: 2103A, 1200KW, AC 200-460V, AC 230V,  
SCREW TERMINALS

| General technical data:                                                             |  |                                             |
|-------------------------------------------------------------------------------------|--|---------------------------------------------|
| product brand name                                                                  |  | SIRIUS                                      |
| • Product equipment Integrated bypass contact system                                |  | Yes                                         |
| • Product feature Thyristors                                                        |  | Yes                                         |
| Product function                                                                    |  |                                             |
| • Intrinsic device protection                                                       |  | Yes                                         |
| • motor overload protection                                                         |  | Yes                                         |
| • Evaluation of thermistor motor protection                                         |  | Yes                                         |
| • External reset                                                                    |  | Yes                                         |
| • Adjustable current limitation                                                     |  | Yes                                         |
| • Inside-delta circuit                                                              |  | Yes                                         |
| Product component Motor brake output                                                |  | Yes                                         |
| Equipment marking acc. to DIN EN 61346-2                                            |  | Q                                           |
| Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 |  | G                                           |
| Power Electronics:                                                                  |  |                                             |
| Product designation                                                                 |  | soft starters for high feature applications |

|                                                                                                                           |    |             |
|---------------------------------------------------------------------------------------------------------------------------|----|-------------|
| <b>Operating current</b>                                                                                                  |    |             |
| • at 40 °C rated value                                                                                                    | A  | 1 214       |
| • at 50 °C rated value                                                                                                    | A  | 1 076       |
| • at 60 °C rated value                                                                                                    | A  | 970         |
| <b>Operating current for three-phase motors at inside-delta circuit</b>                                                   |    |             |
| • at 40 °C rated value                                                                                                    | A  | 2 103       |
| • at 50 °C rated value                                                                                                    | A  | 1 864       |
| • at 60 °C rated value                                                                                                    | A  | 1 680       |
| <b>Mechanical power output for three-phase motors</b>                                                                     |    |             |
| • at 230 V                                                                                                                |    |             |
| — at standard circuit at 40 °C rated value                                                                                | W  | 400 000     |
| — at inside-delta circuit at 40 °C rated value                                                                            | W  | 710 000     |
| • at 400 V                                                                                                                |    |             |
| — at standard circuit at 40 °C rated value                                                                                | W  | 710 000     |
| — at inside-delta circuit at 40 °C rated value                                                                            | W  | 1 200 000   |
| <b>Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C rated value</b> | hp | 400         |
| Operating frequency rated value                                                                                           | Hz | 50 ... 60   |
| <b>Relative negative tolerance of the operating frequency</b>                                                             | %  | -10         |
| <b>Relative positive tolerance of the operating frequency</b>                                                             | %  | 10          |
| <b>Operating voltage at standard circuit rated value</b>                                                                  | V  | 200 ... 460 |
| <b>Relative negative tolerance of the operating voltage at standard circuit</b>                                           | %  | -15         |
| <b>Relative positive tolerance of the operating voltage at standard circuit</b>                                           | %  | 10          |
| <b>Operating voltage at inside-delta circuit rated value</b>                                                              | V  | 200 ... 460 |
| <b>Relative negative tolerance of the operating voltage at inside-delta circuit</b>                                       | %  | -15         |
| <b>Relative positive tolerance of the operating voltage at inside-delta circuit</b>                                       | %  | 10          |
| <b>Minimum load [% of IM]</b>                                                                                             | %  | 8           |
| <b>Adjustable motor current for motor overload protection minimum rated value</b>                                         | A  | 242         |
| <b>Continuous operating current [% of I<sub>e</sub>] at 40 °C</b>                                                         | %  | 115         |
| <b>Power loss [W] at operating current at 40 °C during operation typical</b>                                              | W  | 630         |
| <b>Control electronics:</b>                                                                                               |    |             |
| <b>Type of voltage of the control supply voltage</b>                                                                      |    | AC          |
| <b>Control supply voltage frequency 1 rated value</b>                                                                     | Hz | 50          |
| <b>Control supply voltage frequency 2 rated value</b>                                                                     | Hz | 60          |

|                                                                          |   |         |
|--------------------------------------------------------------------------|---|---------|
| Relative negative tolerance of the control supply voltage frequency      | % | -10     |
| Relative positive tolerance of the control supply voltage frequency      | % | 10      |
| Control supply voltage 1 at AC                                           |   |         |
| • at 50 Hz rated value                                                   | V | 230     |
| • at 60 Hz rated value                                                   | V | 230     |
| Relative negative tolerance of the control supply voltage at AC at 60 Hz | % | -15     |
| Relative positive tolerance of the control supply voltage at AC at 60 Hz | % | 10      |
| Display version for fault signal                                         |   | Display |

#### Mechanical data:

|                                                 |    |                                                                                                                          |
|-------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------|
| Width                                           | mm | 575                                                                                                                      |
| Height                                          | mm | 780                                                                                                                      |
| Depth                                           | mm | 292                                                                                                                      |
| Mounting type                                   |    | screw fixing                                                                                                             |
| Mounting position                               |    | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back |
| Required spacing with side-by-side mounting     |    |                                                                                                                          |
| • upwards                                       | mm | 100                                                                                                                      |
| • at the side                                   | mm | 5                                                                                                                        |
| • downwards                                     | mm | 75                                                                                                                       |
| Installation altitude at height above sea level | m  | 5 000                                                                                                                    |
| Wire length maximum                             | m  | 500                                                                                                                      |
| Number of poles for main current circuit        |    | 3                                                                                                                        |

#### Connections/ Terminals:

|                                                                                  |  |                      |
|----------------------------------------------------------------------------------|--|----------------------|
| Type of electrical connection                                                    |  |                      |
| • for main current circuit                                                       |  | busbar connection    |
| • for auxiliary and control current circuit                                      |  | screw-type terminals |
| Number of NC contacts for auxiliary contacts                                     |  | 0                    |
| Number of NO contacts for auxiliary contacts                                     |  | 3                    |
| Number of CO contacts for auxiliary contacts                                     |  | 1                    |
| Type of connectable conductor cross-sections for DIN cable lug for main contacts |  |                      |
| • finely stranded                                                                |  | 50 ... 240 mm²       |
| • stranded                                                                       |  | 70 ... 240 mm²       |
| Type of connectable conductor cross-sections for auxiliary contacts              |  |                      |
| • solid                                                                          |  | 2x (0.5 ... 2.5 mm²) |
| • finely stranded with core end processing                                       |  | 2x (0.5 ... 1.5 mm²) |

|                                                                                                                                                                                    |  |                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------|
| Type of connectable conductor cross-sections at AWG conductors                                                                                                                     |  |                                                       |
| <ul style="list-style-type: none"> <li>• for main contacts</li> <li>• for auxiliary contacts</li> <li>• for auxiliary contacts finely stranded with core end processing</li> </ul> |  | 2/0 ... 500 kcmil<br>2x (20 ... 14)<br>2x (20 ... 16) |

#### Ambient conditions:

|                      |    |             |
|----------------------|----|-------------|
| Ambient temperature  |    |             |
| • during operation   | °C | 60          |
| • during storage     | °C | -25 ... +80 |
| Derating temperature | °C | 40          |
| Protection class IP  |    | IP00        |

#### Certificates/ approvals:

| General Product Approval                                                          |                                                                                   |                                                                                   |                                                                                   | EMC                                                                                 | Declaration of Conformity                                                           |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |  |
| CCC                                                                               | CSA                                                                               | UL                                                                                |                                                                                   | C-Tick                                                                              | EG-Konf.                                                                            |

|                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Test Certificates                                                  | Shipping Approval                                                                   |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| <a href="#">spezielle Prüfbescheinigungen</a><br><a href="#">n</a> |  |  |  |  |  |
|                                                                    | ABS                                                                                 | BUREAU VERITAS                                                                      | DNV                                                                                 | GL                                                                                    | LRS                                                                                   |

|                                                                                     |                                   |                               |  |  |  |
|-------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|--|--|--|
| Shipping Approval                                                                   | other                             |                               |  |  |  |
|  | <a href="#">Umweltbestätigung</a> | <a href="#">Bestätigungen</a> |  |  |  |
| PRS                                                                                 |                                   |                               |  |  |  |

#### UL/CSA ratings:

|                                                              |    |     |
|--------------------------------------------------------------|----|-----|
| Yielded mechanical performance [hp] for three-phase AC motor |    |     |
| • at 200/208 V                                               |    |     |
| — at inside-delta circuit at 50 °C rated value               | hp | 700 |
| • at 220/230 V                                               |    |     |
| — at standard circuit at 50 °C rated value                   | hp | 450 |

- |    |             |
|----|-------------|
| hp | 850         |
| hp | 950         |
| hp | 1 700       |
|    | B300 / R300 |

## Simulation Tool for Soft Starters (STS)

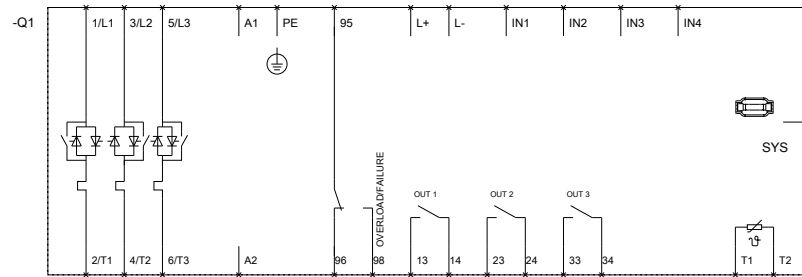
## Information- and Downloadcenter (Catalogs, Brochures,...)

### Industry Mall (Online ordering system)

## Cax online generator

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

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



last modified:

10/11/2016