



Figure similar

SIRIUS MCU motor starter Enclosure degree of protection IP54 metal  
Communication AS-Interface electromechanically switching Short-circuit protection  
with circuit breaker Reversing starter Brake 230 V AC (intrinsic) Performance class  
10.00 A Motor circuit breaker with bi-metal thermal Rotary operating mechanism  
gray/black Connection power M screw connection Standard product

|                                                                                     |                                    |
|-------------------------------------------------------------------------------------|------------------------------------|
| product brand name                                                                  | SIRIUS                             |
| product designation                                                                 | motor starter MCU for AS-Interface |
| design of the product                                                               | reversing starter                  |
| product function bus communication                                                  | Yes                                |
| operating frequency minimum                                                         | 80 1/h                             |
| type of coordination                                                                | 1                                  |
| reference code according to IEC 81346-2                                             | Q                                  |
| Substance Prohibittance (day/month/year)                                            | 05/01/2012                         |
| Net Weight                                                                          | 6.5 kg                             |
| product component motor brake output                                                | Yes                                |
| product feature                                                                     |                                    |
| • brake control with 400 V AC                                                       | No                                 |
| • brake control with 24 V DC                                                        | No                                 |
| • brake control with 180 V DC                                                       | No                                 |
| • brake control with 500 V DC                                                       | No                                 |
| product extension braking module for brake control                                  | No                                 |
| design of short-circuit protection                                                  | circuit-breakers                   |
| maximum short-circuit current breaking capacity (Icu) at 400 V rated value          | 50 000 A                           |
| Safety related data                                                                 |                                    |
| proportion of dangerous failures                                                    |                                    |
| • with low demand rate according to SN 31920                                        | 50 %                               |
| • with high demand rate according to SN 31920                                       | 75 %                               |
| B10 value with high demand rate according to SN 31920                               | 1 000 000                          |
| failure rate [FIT] with low demand rate according to SN 31920                       | 100 FIT                            |
| IEC 61508                                                                           |                                    |
| T1 value for proof test interval or service life according to IEC 61508             | 20 a                               |
| Electrical Safety                                                                   |                                    |
| touch protection against electrical shock                                           | finger-safe                        |
| Main circuit                                                                        |                                    |
| number of poles for main current circuit                                            | 3                                  |
| design of the switching contact                                                     | electromechanical                  |
| adjustable current response value current of the current-dependent overload release | 7 ... 10 A                         |
| type of the motor protection                                                        | bimetal                            |
| type of voltage                                                                     | DC                                 |
| operating voltage rated value                                                       | 340 ... 440 V                      |

|                                                        |                   |                                                                                                                                      |                 |             |
|--------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|
| operating frequency 1 rated value                      |                   | 50 Hz                                                                                                                                |                 |             |
| operating frequency 2 rated value                      |                   | 60 Hz                                                                                                                                |                 |             |
| relative positive tolerance of the operating frequency |                   | 10 %                                                                                                                                 |                 |             |
| relative negative tolerance of the operating frequency |                   | -10 %                                                                                                                                |                 |             |
| operational current                                    |                   |                                                                                                                                      |                 |             |
| • at AC at 400 V rated value                           |                   | 10 A                                                                                                                                 |                 |             |
| • at AC-3 at 400 V rated value                         |                   | 10 A                                                                                                                                 |                 |             |
| operating power at AC-3 at 400 V rated value           |                   | 4 kW                                                                                                                                 |                 |             |
| operating power for 3-phase motors at 400 V at 50 Hz   |                   | 4 kW                                                                                                                                 |                 |             |
| number of digital inputs                               |                   | 2                                                                                                                                    |                 |             |
| type of voltage of the supply voltage                  |                   | DC                                                                                                                                   |                 |             |
| control supply voltage at DC rated value               |                   | 20.4 ... 26.4 V                                                                                                                      |                 |             |
| mounting position                                      |                   | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |                 |             |
| height                                                 |                   | 215 mm                                                                                                                               |                 |             |
| width                                                  |                   | 245 mm                                                                                                                               |                 |             |
| depth                                                  |                   | 205 mm                                                                                                                               |                 |             |
| Ambient conditions                                     |                   |                                                                                                                                      |                 |             |
| ambient temperature during operation                   |                   | -25 ... +50 °C                                                                                                                       |                 |             |
| protocol is supported                                  |                   |                                                                                                                                      |                 |             |
| • PROFIBUS DP protocol                                 |                   | No                                                                                                                                   |                 |             |
| • PROFINET protocol                                    |                   | No                                                                                                                                   |                 |             |
| protocol is supported AS-Interface protocol            |                   | Yes                                                                                                                                  |                 |             |
| type of electrical connection for main current circuit |                   | screw-type terminals                                                                                                                 |                 |             |
| Approvals Certificates                                 |                   |                                                                                                                                      |                 |             |
| General Product Approval                               | Test Certificates | other                                                                                                                                | Dangerous goods | Environment |



[Type Test Certificates/Test Report](#)

[Confirmation](#)



[Transport Information](#)

[Environmental Confirmations](#)

#### Further information

##### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

##### Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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

<https://www.siemens.com/ic10>

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

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK4320-3NQ51-1BA2>

##### Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK4320-3NQ51-1BA2>

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

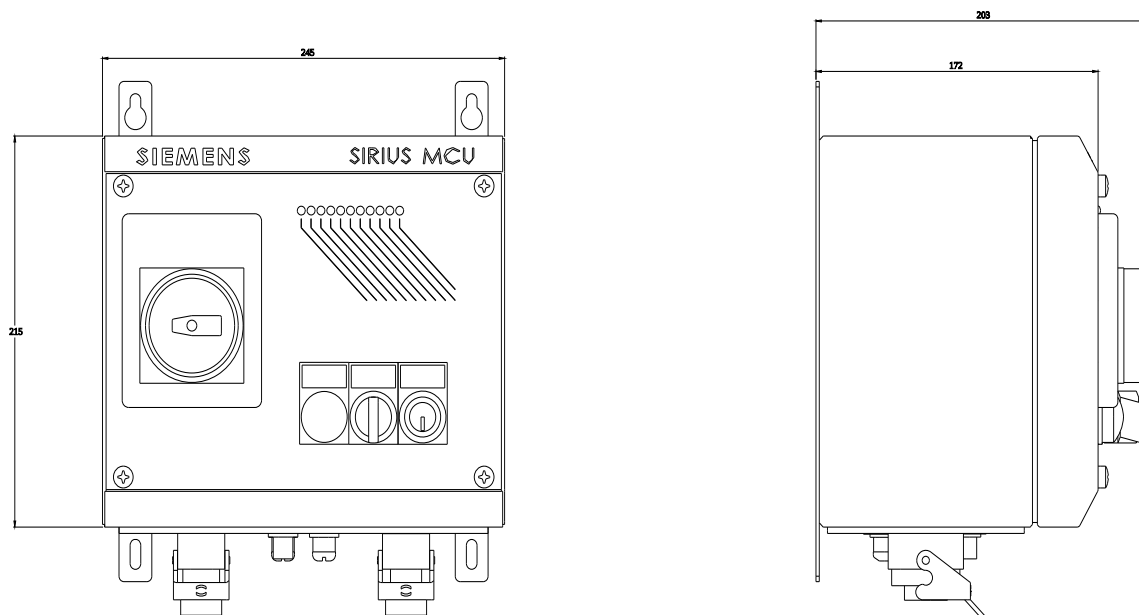
<https://support.industry.siemens.com/cs/ww/en/ps/3RK4320-3NQ51-1BA2>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK4320-3NQ51-1BA2&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK4320-3NQ51-1BA2&lang=en)

##### Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



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