

SIRIUS MCU motor starter Enclosure degree of protection IP54 metal
Communication AS-Interface Electronic switching Short-circuit protection with
circuit breaker Soft starter Brake 400 V AC (internal) Performance class 12.00 A
Motor circuit breaker with temperature sensor Rotary operating mechanism
gray/black Connection power M screw connection customized Design Airport
Dublin

product brand name	SIRIUS
product designation	MCU motor starter, soft starter with AS-interface
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	5.998 kg
product component motor brake output	Yes
product feature	• brake control with 400 V AC Yes • 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	solid-state / thyristor / 2 phases
adjustable current response value current of the current-dependent overload release	11 ... 16 A
type of the motor protection	full motor protection
type of voltage	DC
operating voltage rated value	340 ... 460 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 12 A • at AC-3 at 400 V rated value 12 A
operating power at AC-3 at 400 V rated value	5.5 kW
operating power for 3-phase motors at 400 V at 50 Hz	1.1 ... 5.5 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		290 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 Ap- proval	other	Environment



[Confirmation](#)



[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=3RK4422-4PQ67-0BB3>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK4422-4PQ67-0BB3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK4422-4PQ67-0BB3>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK4422-4PQ67-0BB3&lang=en

Characteristic curves

https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod_no>

last modified:

4/17/2025