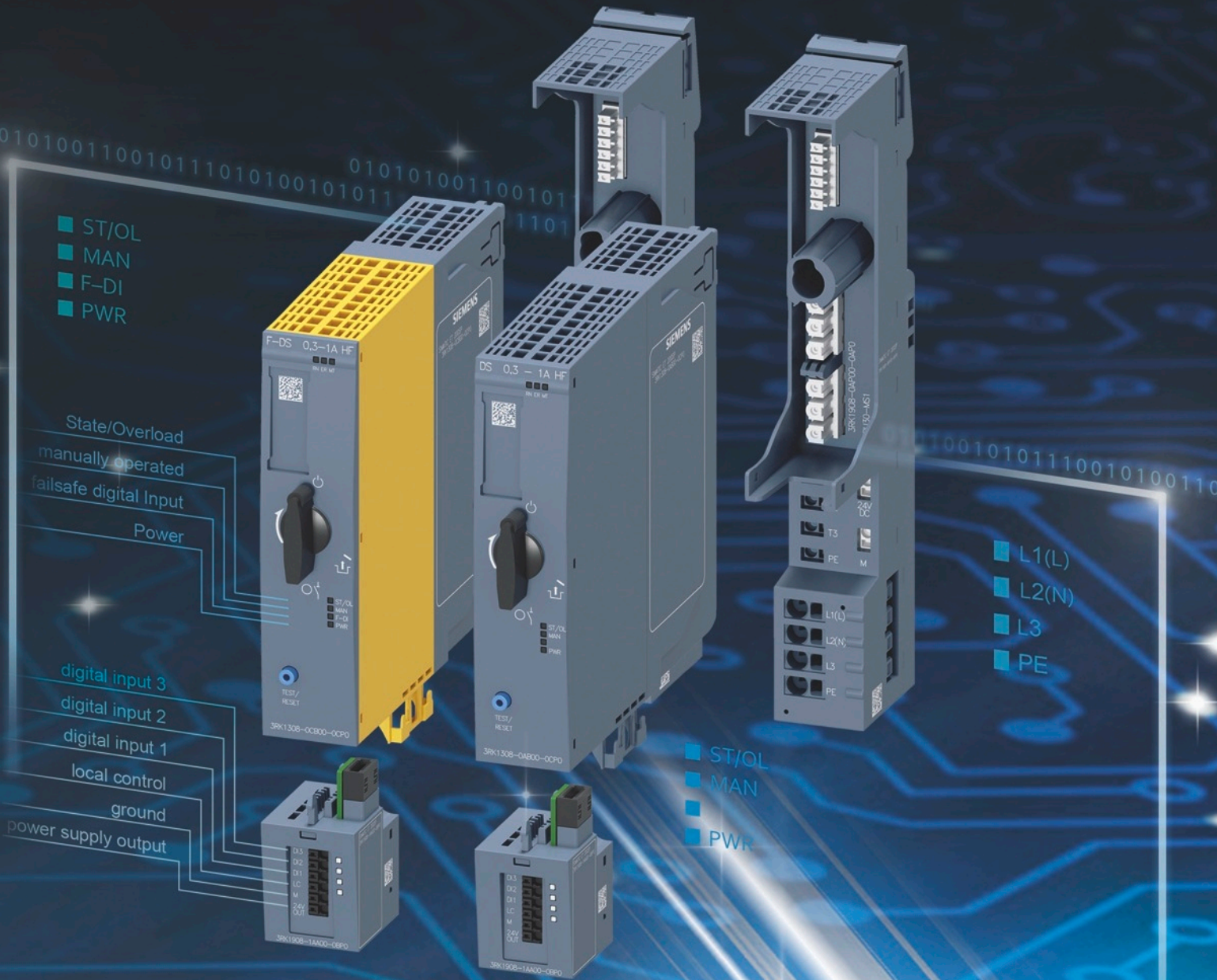


SIEMENS



SIRIUS

Industrial Controls ET 200SP motor starters

Catalog
Abridged
IC 10 A

Edition
March
2017

siemens.com/ET200SP-motorstarter

Related catalogs

Industrial Controls SIRIUS

IC 10



E86060-K1010-A101-A7-7600

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PDF (E86060-K1010-A191-A5-7600)

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D 81.1

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Frame sizes 71 to 315
Power range 0.09 to 200 kW
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Further information about industrial controls:
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Technical Assistance

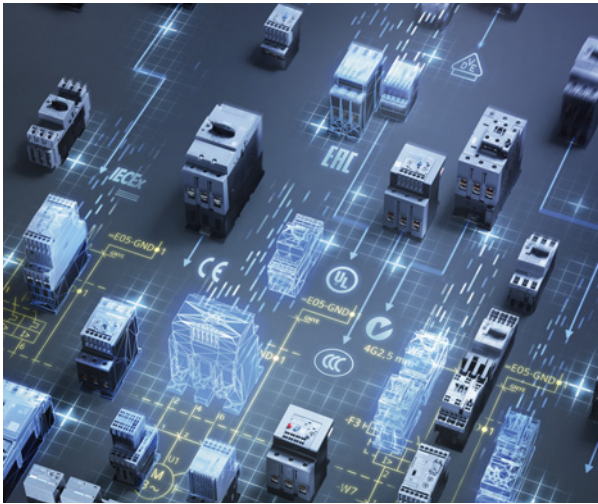
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for Industrial controls:
Tel.: +49 (911) 895-5900
Fax: +49 (911) 895-5907

E-Mail: technical-assistance@siemens.com



Industrial Controls

SIRIUS



Catalog Abridged IC 10 A · 03/2017

Catalog Abridged IC 10 A · 03/2017 is an abridged version of Catalog IC 10 · 2017 with updated content. This content replaces the corresponding sections of Catalog IC 10 · 2017.

Refer to the Industry Mall for current updates of Catalog IC 10:

www.siemens.com/industrymall

Please contact your local Siemens branch.

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The products and systems described in this catalog are manufactured/distributed under application of a certified quality management system in accordance with EN ISO 9001 (for the Certified Registration No. see www.siemens.com/system-certificates/cp). The certificate is recognized by all IQNet countries.

1	Introduction	
2	Industrial Communication	
3	Switching Devices – Contactors and Contactor Assemblies – for Switching Motors	
4	Switching Devices – Contactors and Contactor Assemblies – Special Applications	
5	Switching Devices – Contactors and Contactor Assemblies – Contactor Relays and Relays	
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Industrial Controls

Ordering notes

Things you should know about Catalog Abridged IC 10 A

Catalog Abridged IC 10 A contains all selection and order-relevant data.

Standard delivery time (SD)

SD in days (d)

► Preferred type

X On request

Preferred types are available immediately from stock, i.e. are dispatched within 24 hours.

Normal quantities of the products are usually delivered within the specified time following receipt of your order at our branch.

In exceptional cases, the actual delivery time may differ from that specified.

The delivery times apply up to the ramp at Siemens AG (products ready for dispatch). The transport times depend on the destination and type of shipping. The standard transport time for Germany is one day.

The delivery times specified here represent the situation in April 2017. They are continuously optimized. For more up-to-the-minute information, please visit www.siemens.com/sirius/mall.

Price units (PU)

The price unit defines the number of units, sets or meters to which the specified price applies.

Packaging sizes (PS)

The packaging size defines the number, e.g. of units, sets or meters, contained in an outer packaging.

Only the quantity defined by the packaging size or a multiple thereof can be ordered.

For multi-unit packing and reusable packaging, see [Catalog IC 10, Chapter 16 "Appendix" → "Ordering notes"](#).

Price groups (PG)

Each product is assigned to a price group.

Example

3RA2110-0FA15-1APO

SD: 2 working days

PG: 41D

Order quantity 1 unit or a multiple thereof

3RV1901-0H

SD: Preferred type

PG: 41E

Order quantity 10 units or a multiple thereof

3SU1900-0AB71-0AB0

SD: 5 working days

PG: 41J

Order quantity 10 units or a multiple thereof

SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
d					
2	3RA2110-0FA15-1APO		1	1 ST	41D
►	3RV1901-0H		1	10 ST	41E
5	3SU1900-0AB71-0AB0		100	10 ST	41J

Dimensions

All dimensions in mm.

Load Feeders and Motor Starters for Use in the Control Cabinet

**Price groups**

PG 12W, 14O, 215, 216, 230, 241, 250, 2AP, 41B, 41D, 41E, 41L, 42C, 42D, 42F, 42G, 42J, 473, 5K1, 5K2, 5N2, 764, 815, 816

8/2 **Introduction****SIRIUS 3RA2 load feeders**

8/4 General data

3RA21 direct-on-line starters

8/21 - For snapping onto standard mounting rails or for screw fixing

8/29 - For 60 mm busbars

8/33 3RA22 reversing starters

- For snapping onto standard mounting rails or for screw fixing

8/39 - For 60 mm busbars

8/44 Accessories

8/55 3RV29 infeed system for load feeders

SIRIUS 3RA6 compact starters

8/56 General data

3RA61, 3RA62 compact starters

8/66 - 3RA61 direct-on-line starters

8/67 - 3RA62 reversing starters

3RA64, 3RA65 compact starters for IO-Link

8/68 - 3RA64 direct-on-line starters

8/69 - 3RA65 reversing starters

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SIRIUS 3RM1 motor starters

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ET 200SP motor starters *NEW*

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Note:

The 3RA1 load feeders (sizes S00/S0 to S3) can be found

- In the Catalog Add-On IC 10 AO · 2016 in the Information and Download Center
- In the interactive Catalog CA 01
- In the Industry Mall www.siemens.com/product?3RA1

For the conversion tool, see www.siemens.com/sirius/conversion-tool

NEW

Click on the Article No. in the catalog PDF to access it in the Industry Mall and get all related information.

Article No.

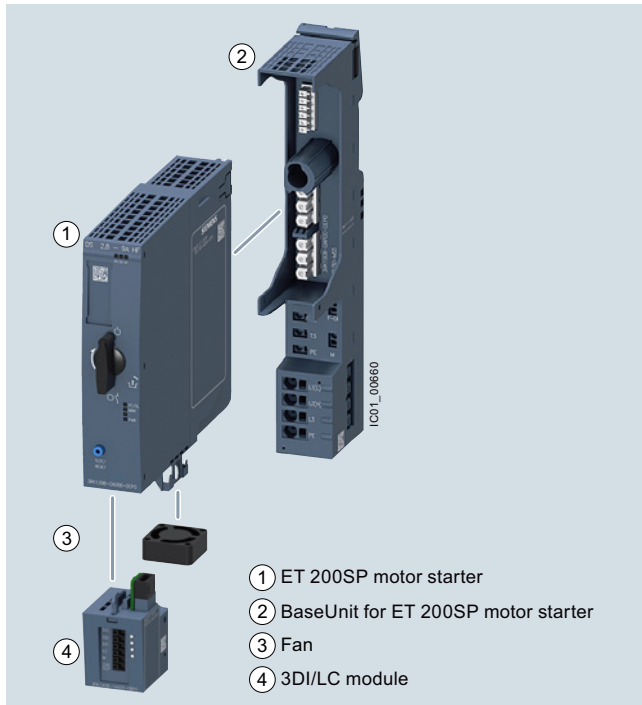
3RA1943-2C
3RA1943-2B
3RA1953-2B
3RA1953-2N



IC10_01943

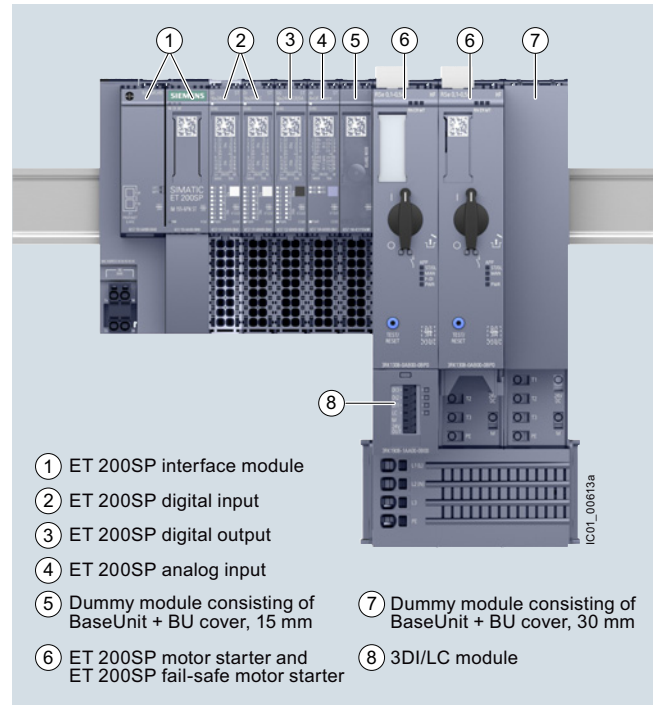
Or directly in the Internet, e. g. www.siemens.com/product?3RA1943-2C

Overview



- ① ET 200SP motor starter
- ② BaseUnit for ET 200SP motor starter
- ③ Fan
- ④ 3DI/LC module

Motor starter, BaseUnit, fan and 3DI/LC control module



- ① ET 200SP interface module
- ② ET 200SP digital input
- ③ ET 200SP digital output
- ④ ET 200SP analog input
- ⑤ Dummy module consisting of BaseUnit + BU cover, 15 mm
- ⑥ ET 200SP motor starter and ET 200SP fail-safe motor starter
- ⑦ Dummy module consisting of BaseUnit + BU cover, 30 mm
- ⑧ 3DI/LC module

3RK1308 motor starter in the ET 200SP I/O system

Further information

Homepage, see <http://www.siemens.com/ET200SP-motorstarter>

Further components in the ET 200SP distributed I/O system:

- Catalog ST 70, see www.siemens.com/industry/infocenter
- Industry Mall, see www.siemens.com/product?ET200SP

ET 200SP motor starters

ET 200SP is a scalable, highly flexible and modular I/O system with IP20 degree of protection.

As I/O modules, the ET 200SP motor starters are an integral part of this I/O system. They are switching and protection devices for single and three-phase loads and are available as direct-on-line or reversing starters.

Basic functionality

All versions of the ET 200SP motor starters have the following functionality:

- Fully pre-wired motor starters for switching and protecting any AC loads up to 5.5 kW from 48 V AC to 500 V AC
- Disconnection possible via fail-safe motor starters up to SIL 3 and PL e Cat. 4
- With self-assembling 32 A power bus, i.e. the load voltage is only fed in once for a group of motor starters
- All control supply voltages connected only once, i.e. when modules are added they are automatically connected to the next module
- Hot swapping is permissible
- Digital inputs can be used optionally via a 3DI/LC module
- Control of the motor starter from the control system and extensive diagnostics status via the cyclic process image
- Diagnostics capability for active monitoring of the switching and protection functions
- The signal states in the process image of the motor starter provide information about protective devices (short circuit or overload), the switching states of the motor starter, and system faults.

Designing interference-free motor starters

For interference-free operation of the ET 200SP station in accordance with IEC 60947-4-2 standard, use a dummy module before the first motor starter. The dummy module consists of the 6ES7193-6BP00-0BA0 or 6ES7193-6BP00-0DA0 BaseUnit and the 6ES7133-6CV15-1AM0 BU cover 15 mm.

The 15 mm BU cover protects the plug contacts of the BaseUnit against dirt.

Both can be ordered as accessories, see also [Catalog ST 70](#).

Load Feeders and Motor Starters for Use in the Control Cabinet

ET 200SP motor starters

Article No. scheme

Product versions		Article number	
Motor starters		3RK1308 - 0 <input type="checkbox"/> <input type="checkbox"/> 0 0 - 0 C P 0	
Product function	Direct-on-line starters	A	for motor standard output 0.12 ... 5.5 kW ¹⁾
	Reversing starters	B	for motor standard output 0.12 ... 5.5 kW ¹⁾
	Fail-safe direct-on-line starters	C	for motor standard output 0.12 ... 5.5 kW ¹⁾
	Fail-safe reversing starters	D	for motor standard output 0.12 ... 5.5 kW ¹⁾
Current range	0.3 ... 1 A	B	
	0.9 ... 3 A	C	
	2.8 ... 9 A	D	
	4 ... 12 A	E	
Example		3RK1308 - 0 A D 0 0 - 0 C P 0	

¹⁾ For standard motors: single-phase or three-phase asynchronous motors, single-phase AC motors, single-phase asynchronous motors, at 400 V AC and 500 V AC; the actual startup characteristics of the motor as well as its rated data are important factors here.

Note:

The Article No. scheme shows an overview of product versions for better understanding of the logic behind the article numbers.

For your orders, please use the article numbers quoted in the selection and ordering data.

BaseUnits for motor starters

BaseUnits are components for accommodating the ET 200SP I/O modules. The self-assembling voltage buses integrated into the BaseUnits reduce wiring outlay to the single infeed (both of auxiliary and load voltage).

All modules following on the right are automatically supplied upon plugging the BaseUnits together, if BaseUnits are inserted

with routing. The rugged design and keyed connection technology enables use in harsh industrial conditions.

The BaseUnits are available with various infeeds for the motor starters.

Article No. scheme

Product versions		Article number	
BaseUnit		3RK1908 - 0 A P 0 0 - 0 <input type="checkbox"/> P 0	
BaseUnit infeed	24 V DC and 500 V AC	A	
	24 V DC	B	
	500 V AC	C	
	without infeed	D	
	500 V AC	E	with F-DI for fail-safe motor starters
	without infeed	F	with F-DI for fail-safe motor starters
Example		3RK1908 - 0 A P 0 0 - 0 A P 0	

Note:

The Article No. scheme shows an overview of product versions for better understanding of the logic behind the article numbers.

For your orders, please use the article numbers quoted in the selection and ordering data.

3DI/LC control module

This is a digital input module with three inputs for local motor starter functions such as "manual local control", "implementation of fast inputs" or "end position disconnection". For a list of all the functions permitted by the 3DI/LC module, see Manual "ET 200SP Motor Starters", "Function overview" section <https://support.industry.siemens.com/cs/ww/en/view/109479973>

The module is plugged into the front of the motor starter from which it is supplied with a 24 V DC operating voltage.

Benefits

Product advantages

The ET 200SP motor starters offer a number of benefits:

- Fully integrated into the ET 200SP I/O system (including TIA Selection Tool and TIA Portal)
- High degree of flexibility when it comes to safety applications via SIMATIC F-CPU or SIRIUS 3SK safety relays up to SIL 3 and PL e Cat. 4.
- Simple, integrated current value transmission
- Extensive parameterization by means of TIA Portal
- Increase of plant availability through fast replacement of units (easy mounting and plug-in technology)
- Longer service life and reduced heat losses thanks to hybrid technology
- Less space required in the control cabinet (20 to 80%) as a result of greater functional density (direct-on-line and reversing starters in same width)
- Extensive diagnostics and information for preventive maintenance
- Parameterizable inputs via 3DI/LC control module
- Less wiring and testing required as a result of integrating several functions into a single device
- Lower overheads for stock keeping and configuration as a result of the wide setting range of the electronic overload release (up to 1:3)
- Lower technology-reduced inherent power loss as speed-controlled drive systems, also enabling lower cooling requirements (and enabling a more compact design)

The ET 200SP motor starters can be used with highly energy-efficient IE3/IE4 motors.

For more information on IE3/IE4, see [Catalog IC 10, Preface](#).

Standards and approvals

- IEC/EN 60947-4-2
- UL 60947-4-2
- CSA
- ATEX
- IEC 61508-1: SIL 3
- ISO 13849: PL e
- CCC approval for China

Application

The ET 200SP motor starters are suitable for the following applications:

- Switching and monitoring of
 - Three-phase motors with overload and short-circuit protection (e.g. 400 V asynchronous motors for secondary drives in conveyor systems)
 - Single-phase motors with overload and short-circuit protection (e.g. 250 V motors for pump applications)
 - Resistive loads by means of current value and diagnosis via the maintenance function (e.g. for heaters)
- Plant monitoring and energy management in conveyor systems:
 - By means of phase asymmetry and zero current detection, for example, it is possible to monitor drive belts and blocking.
- Track switching and lifting table control in conveyor systems:
 - Track switches can be implemented by means of the quick stop function and lifting table controls by means of the "immediate end position disconnection" function without any laborious programming.
- Safe isolation of drive from main power supply:
 - The isolating functions in accordance with IEC 60947-1 offer protection against inadvertent activation during plant maintenance.

Load Feeders and Motor Starters for Use in the Control Cabinet

ET 200SP motor starters

Technical specifications

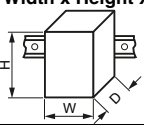
Further Informationen

Industry Mall, see www.siemens.com/product?3RK1308

Manual, see

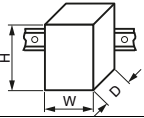
<https://support.industry.siemens.com/cs/ww/en/view/109479973>FAQs, see <https://support.industry.siemens.com/cs/de/en/ps/21800/faq>

ET 200SP motor starters

Article number		3RK1308-0AB00-0CP0	3RK1308-0AC00-0CP0	3RK1308-0AD00-0CP0	3RK1308-0AE00-0CP0
		3RK1308-0BB00-0CP0	3RK1308-0BC00-0CP0	3RK1308-0BD00-0CP0	3RK1308-0BE00-0CP0
Product designation		Motor starters			
General technical data					
Width x Height x Depth	mm	30 × 142 × 150			
					
Design of the switching contact		Hybrid			
Type of the motor protection		Solid-state			
Installation altitude at height above sea level maximum	m	4 000			
Mounting position		Vertical, horizontal, flat (observe derating)			
Mounting type		Pluggable in BaseUnit			
Ambient temperature					
• during operation	°C	-25 ... +60			
• during transport	°C	-40 ... +70			
• during storage	°C	-40 ... +70			
Relative humidity during operation	%	10 ... 95			
Vibration resistance		15 mm to 6 Hz; 2 g to 500 Hz			
Shock resistance		6 g / 11 ms			
Protection class IP		IP20			
Type of assignment		1			
Electrical data					
Supply voltage at DC rated value	V	24			
Operating power at AC-53a at 400 V rated value	kW	0.25	1.1	4	5.5
Operating frequency rated value	Hz	50 ... 60			
Maximum short-circuit current breaking capacity (I_{cu})					
• at 400 V rated value	kA	55			
• at 500 V rated value	kA	55			
Adjustable pick-up value current of the current-dependent overload release	A	0.3 ... 1	0.9 ... 3	2.8 ... 9	4 ... 12
Current-carrying capacity at startup maximum	A	10	30	90	100
Maximum permissible voltage for safe isolation between main and auxiliary circuit	V	500			
Insulation voltage rated value	V	500			
Trip class		CLASS 5 and 10 adjustable			

Load Feeders and Motor Starters for Use in the Control Cabinet

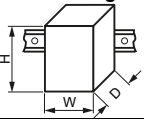
ET 200SP motor starters

Article number		3RK1308-0CB00-0CP0	3RK1308-0CC00-0CP0	3RK1308-0CD00-0CP0	3RK1308-0CE00-0CP0
		3RK1308-0DB00-0CP0	3RK1308-0DC00-0CP0	3RK1308-0DD00-0CP0	3RK1308-0DE00-0CP0
Product designation		Fail-safe motor starter			
General technical data					
Width x Height x Depth	mm	30 × 142 × 150			
					
Design of the switching contact		Hybrid			
Type of the motor protection		Solid-state			
Installation altitude at height above sea level maximum	m	2 000			
Mounting position		Vertical, horizontal, flat (observe derating)			
Mounting type		Pluggable in BaseUnit			
Ambient temperature					
• during operation	°C	-25 ... +60			
• during transport	°C	-40 ... +70			
• during storage	°C	-40 ... +70			
Relative humidity during operation	%	10 ... 95			
Vibration resistance		15 mm to 6 Hz; 2 g to 500 Hz			
Shock resistance		6 g / 11 ms			
Protection class IP		IP20			
Type of assignment		1			
Electrical data					
Supply voltage at DC rated value	V	24			
Operating power at AC-53a at 400 V rated value	kW	0.25	1.1	4	5.5
Operating frequency rated value	Hz	50 ... 60			
Maximum short-circuit current breaking capacity (I_{cu})					
• at 400 V rated value	kA	55			
• at 500 V rated value	kA	55			
Adjustable pick-up value current of the current-dependent overload release	A	0.3 ... 1	0.9 ... 3	2.8 ... 9	4 ... 12
Current-carrying capacity at startup maximum	A	10	30	90	100
Maximum permissible voltage for safe isolation between main and auxiliary circuit	V	500			
Insulation voltage rated value	V	500			
Trip class		CLASS 5 and 10 adjustable			

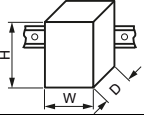
Load Feeders and Motor Starters for Use in the Control Cabinet

ET 200SP motor starters

BaseUnits for motor starters

Article number	3RK1908-0AP00-0AP0	3RK1908-0AP00-0BP0	3RK1908-0AP00-0CP0	3RK1908-0AP00-0DP0	3RK1908-0AP00-0EP0	3RK1908-0AP00-0FP0
Product designation	BaseUnit					
General technical data						
Width x Height x Depth	mm	30 x 215 x 75				
						
Ambient temperature						
• during operation	°C	-25 ... +60				
• during transport	°C	-40 ... +70				
• during storage	°C	-40 ... +70				
Protection class IP		IP20				
Protection against electrical shock		Finger-safe				
Connections/terminals						
Type of connectable conductor cross-sections						
• at the inputs for supply voltage						
- solid		1x0.5 ... 2.5 mm ²		--		
- finely stranded with core end processing		1x0.5 ... 2.5 mm ²		--		
- finely stranded without core end processing		1x0.5 ... 2.5 mm ²		--		
- at AWG conductors solid		1x20 ... 12		--		
• for supply						
- solid		1x1 ... 6 mm ²	--	1x1 ... 6 mm ²	--	1x1 ... 6 mm ²
- finely stranded with core end processing		1x1 ... 6 mm ²	--	1x1 ... 6 mm ²	--	1x1 ... 6 mm ²
- finely stranded without core end processing		1x1 ... 6 mm ²	--	1x1 ... 6 mm ²	--	1x1 ... 6 mm ²
- at AWG conductors solid		1x18 ... 10	--	1x18 ... 10	--	1x18 ... 10
• for load-side outgoing feeder						
- solid		1x0.5 ... 2.5 mm ²				
- finely stranded with core end processing		1x0.5 ... 2.5 mm ²				
- finely stranded without core end processing		1x0.5 ... 2.5 mm ²				
- at AWG conductors solid		1x20 ... 12				
Type of electrical connection for auxiliary and control current circuit		Spring-loaded connection (Push-In)				
Miscellaneous						
Shape of the screwdriver tip		Slot				
Size of the screwdriver tip		Standard screwdriver 0.6 mm x 3.5 mm				



3DI/LC control module

Article number	3RK1908-1AA00-0BP0	
Product designation	3DI/LC control module	
General technical data		
Width x Height x Depth	mm	30 x 54.5 x 42.3
		
Design of the product	Accessories	
Number of digital inputs	4	
Installation altitude at height above sea level maximum	m	2 000
Mounting position	Vertical, horizontal, flat	
Mounting type	Can be plugged onto motor starters	
Ambient temperature		
• during operation	°C	-25 ... +60
• during transport	°C	-40 ... +70
• during storage	°C	-40 ... +70
Connections/terminals		
Connectable conductor cross-section for auxiliary contacts		
• solid or multi-stranded	mm ²	0.2 ... 1.5
• finely stranded with core end processing	mm ²	0.25 ... 1.5
• finely stranded without core end processing	mm ²	0.2 ... 1.5
AWG number as coded connectable conductor cross-section for auxiliary contacts	24 ... 16	
Type of electrical connection for auxiliary and control current circuit	Spring-loaded connection (Push-In)	
Electrical data		
Type of voltage of the control supply voltage	DC	
Control supply voltage at DC rated value	V	20.4 ... 28.8
Miscellaneous		
Shape of the screwdriver tip	Slot	
Size of the screwdriver tip	Standard screwdriver 0.6 mm x 3.5 mm	

Load Feeders and Motor Starters for Use in the Control Cabinet


ET 200SP motor starters

Selection and ordering data

	Adjustable pick-up value current of the current-dependent overload release	Current-carrying capacity at startup maximum	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
	A	A	d					
Motor starters								
Direct-on-line starter								
	0.3 ... 1	10	2	3RK1308-0AB00-0CP0		1	1 unit	42D
	0.9 ... 3	30	2	3RK1308-0AC00-0CP0		1	1 unit	42D
	2.8 ... 9	90	2	3RK1308-0AD00-0CP0		1	1 unit	42D
	4 ... 12	100	NEW 2	3RK1308-0AE00-0CP0		1	1 unit	42D
Reversing starter								
	0.3 ... 1	10	2	3RK1308-0BB00-0CP0		1	1 unit	42D
	0.9 ... 3	30	2	3RK1308-0BC00-0CP0		1	1 unit	42D
	2.8 ... 9	90	2	3RK1308-0BD00-0CP0		1	1 unit	42D
	4 ... 12	100	NEW 2	3RK1308-0BE00-0CP0		1	1 unit	42D
Fail-safe direct-on-line starter								
	0.3 ... 1	10	NEW 2	3RK1308-0CB00-0CP0		1	1 unit	42D
	0.9 ... 3	30	NEW 2	3RK1308-0CC00-0CP0		1	1 unit	42D
	2.8 ... 9	90	NEW 2	3RK1308-0CD00-0CP0		1	1 unit	42D
	4 ... 12	100	NEW 2	3RK1308-0CE00-0CP0		1	1 unit	42D
Fail-safe reversing starter								
	0.3 ... 1	10	NEW 2	3RK1308-0DB00-0CP0		1	1 unit	42D
	0.9 ... 3	30	NEW 2	3RK1308-0DC00-0CP0		1	1 unit	42D
	2.8 ... 9	90	NEW 2	3RK1308-0DD00-0CP0		1	1 unit	42D
	4 ... 12	100	NEW 2	3RK1308-0DE00-0CP0		1	1 unit	42D

Load Feeders and Motor Starters for Use in the Control Cabinet

ET 200SP motor starters

Design of the product	Operating voltage of AC supply	Supply voltage of DC supply	SD	Spring-loaded connection (Push-In)	PU (UNIT, SET, M)	PS*	PG	
								Article No.
	V	V	d					
BaseUnit¹⁾								
	For AC/DC infeed	500	24	2	3RK1908-0AP00-0AP0	1	1 unit	42D
	For AC infeed	--	24	2	3RK1908-0AP00-0BP0	1	1 unit	42D
	For DC infeed	500	--	2	3RK1908-0AP00-0CP0	1	1 unit	42D
	Without infeed	--	--	2	3RK1908-0AP00-0DP0	1	1 unit	42D
	For AC infeed, with F-DI for fail-safe motor starters	500	--	NEW 2	3RK1908-0AP00-0EP0	1	1 unit	42D
	Without infeed, with F-DI for fail-safe motor starters	--	--	NEW 2	3RK1908-0AP00-0FP0	1	1 unit	42D





3RK1908-0AP00-0AP0

¹⁾ The voltage is looped-through from BaseUnits with infeed to subsequent BaseUnits.

Control supply voltage at DC rated value	Product function		SD	Spring-loaded connection (Push-In)	PU (UNIT, SET, M)	PS*	PG
	on-site operation	digital inputs parameterizable					
V			d				
3DI/LC control module							
20.4 ... 28.8	Yes	Yes	2	3RK1908-1AA00-0BP0	1	1 unit	42D



3RK1908-1AA00-0BP0

Product designation	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
	d					
Accessories						
BaseUnit cover	2	3RK1908-1CA00-0BP0		1	1 unit	42D
						
3RK1908-1CA00-0BP0						
Infeed bus cover	2	3RK1908-1DA00-2BP0		1	10 units	42D
						
3RK1908-1DA00-2BP0						
Mechanical bracket	2	3RK1908-1EA00-1BP0		1	5 units	42D
						
3RK1908-1EA00-1BP0						
Fan	▶	3RW4928-8VB00		1	1 unit	42G
						
3RW4928-8VB00						

Load Feeders and Motor Starters for Use in the Control Cabinet

Notes



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www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

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¹⁾ The text of the Terms and Conditions of Siemens AG can be downloaded at www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

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Siemens AG
Digital Factory
Control Products
Postfach 23 55
90713 FÜRTH
GERMANY

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