Data sheet

Failsafe reversing starter, Electronic switching Electronic overload protection up to 1.1 kW/400 V; 0.9 A to 3 A High-Feature Option: 3DI/LC module PROFlenergy



Product brand name	SIMATIC
Product category	Motor starter
Product designation	Reversing starter
Product type designation	ET 200SP

General technical data	
Trip class	CLASS 5 and 10 adjustable
Equipment variant acc. to IEC 60947-4-2	3
Product function	Fail-safe reversing starter
on-site operation	Yes
 Intrinsic device protection 	Yes
 Remote firmware update 	Yes
 for power supply Reverse polarity protection 	Yes
Power loss [W] for rated value of the current	
 at AC in hot operating state per pole 	0.2 W
Insulation voltage	
• rated value	500 V
Degree of pollution	2
Overvoltage category	III
Surge voltage resistance rated value	6 kV

500 V
IP20
6g / 11 ms
15 mm to 6 Hz; 2g to 500 Hz
45,000,000
15 000 000
1
AC-53a: 3 A: (8-0,7: 70-32)
Q
A
Yes
Yes
No
Yes
fuse
55 kA
55 kA
100 kA
55 kA
55 kA
class A
Class A
3 kV
4 kV
2 kV
Class A
20 V/m
8 kV air discharge
Class A for industrial environment

Field-bound HF-interference emission acc. to CISPR11	Class A for industrial environment
Safety related data	
Safety device type acc. to IEC 61508-2	Type B

Safety related data	
Safety device type acc. to IEC 61508-2	Type B
B10d value	2 300 000
Safety Integrity Level (SIL) acc. to IEC 61508	3
Performance level (PL) acc. to EN ISO 13849-1	е
Category acc. to EN ISO 13849-1	4
Stop category acc. to DIN EN 60204-1	0
Diagnostics test interval by internal test function	600 s
maximum	
PFH acc. to IEC 61508 relating to SIL	0.000000036 1/h
PFDavg with low demand rate acc. to IEC 61508	0.0000041
Hardware fault tolerance acc. to IEC 61508	1
Service life maximum	20 y
Safe state	Load circuit open
Protection against electrical shock	finger-safe

Main circuit	
Number of poles for main current circuit	3
Design of the switching contact	Hybrid
Adjustable pick-up value current of the current-	0.9 3 A
dependent overload release	
Minimum load [%]	50 %
Type of the motor protection	solid-state
Operating voltage	
• rated value	48 500 V
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
Relative symmetrical tolerance of the operating	5 %
frequency	
Relative positive tolerance of the operating frequency	5 %
Relative negative tolerance of the operating	5 %
frequency	
Operating range relative to the operating voltage at	
AC	
● at 50 Hz	48 500 V
Operating current	
● at AC at 400 V rated value	3 A
Ampacity when starting maximum	30 A
Operating power for three-phase motors at 400 V at	0.37 1.1 kW
50 Hz	

0.37 1.1 kW
5

• Note	4 via 3DI/LC module
safety-related	1
Input voltage at digital input	
• at DC rated value	24 V
• with signal <0> at DC	0 5 V
• for signal <1> at DC	15 30
Input current at digital input	
● for signal <1> typical	0.009 A

Supply voltage	
Type of voltage of the supply voltage	DC
Supply voltage 1 at DC rated value	
 minimum permissible 	20.4 V
 maximum permissible 	28.8 V
Supply voltage at DC rated value	24 V
Consumed current	
 for rated value of supply voltage in standby 	95 mA
mode	
 for rated value of supply voltage during 	160 mA
operation	
 at rated value of supply voltage at switching on 	250 mA
Power loss [W] for rated value of supply voltage	
 in switching state OFF with bypass circuit 	2.3 W
 in switching state ON with bypass circuit 	3.8 W

Response times	
Switch-on delay time	35 ms
Off-delay time	35 50 ms
Off-delay time with safety-related request	
 when switched off via control inputs maximum 	55 ms
 when switched off via supply voltage maximum 	120 ms

Installation/ mounting/ dimensions	
Mounting position	Vertical, horizontal, flat (observe derating)
Mounting type	pluggable in BaseUnit
Height	142 mm
Width	30 mm
Depth	150 mm
Required spacing	
with side-by-side mounting	
— upwards	50 mm
— downwards	50 mm

Ambient conditions	
Installation altitude at height above sea	level

• maximum	2 000 m; For derating see manual			
Ambient temperature				
during operation	-25 +60 °C; For derating see manual			
during storage	-40 +70 °C			
during transport	-40 +70 °C			
Environmental category during operation acc. to IEC 60721	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices)			
Relative humidity during operation	10 95 %			
Air pressure				
• acc. to SN 31205	900 1 060 hPa			
Communication/ Protocol				
Protocol is supported				
 PROFIBUS DP protocol 	Yes			
 PROFINET protocol 	Yes			
Product function Bus communication	Yes			
Protocol is supported				
AS-Interface protocol	No			
Product function				
 supports PROFlenergy measured values 	Yes			
 supports PROFlenergy shutdown 	Yes			
address range memory of address range				
• of the inputs	4 byte			
• of the outputs	2 byte			
Type of electrical connection				
• of the communication interface	Plug contact to Base Unit			
Connections/ Terminals				
Type of electrical connection				
1 for digital input signals	Pluggable module - accessory			
 2 for digital input signals 	Plug contact to Base Unit			
Type of electrical connection				
for main energy infeed	Plug contact to Base Unit			
 for load-side outgoing feeder 	Plug contact to Base Unit			
 for supply voltage line-side 	Plug contact to Base Unit			
Wire length for motor unshielded maximum	200 m			
UL/CSA ratings				
Full-load current (FLA) for three-phase AC motor				
• at 480 V rated value	3 A			
Current with locked rotor (LRA) for three-phase AC motor at 480 V rated value	24 A			
Yielded mechanical performance [hp]				
• for single-phase AC motor				

— at 110/120 V rated value	0.1 hp
— at 230 V rated value	0.25 hp
• for three-phase AC motor	
— at 200/208 V rated value	0.5 hp
— at 220/230 V rated value	0.5 hp
— at 460/480 V rated value	1.5 hp
Operating voltage	
• at AC at 60 Hz acc. to CSA and UL rated value	480 V

Certificates/ approvals

General Product Approval	EMC	For use in haz-
		ardous loca-
		tions













Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certific- ates	Marine / Shipping		
Type Examination Certificate	C E	Type Test Certificates/Test Report	ABS	Lloyd's Register	DNV-GL DNVGLCOM/AF

other

Confirmation

PROFINET-Certification

Further information

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

www.siemens.com/sirius/catalogs

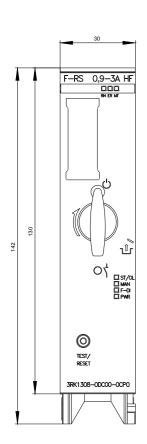
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1308-0DC00-0CP0

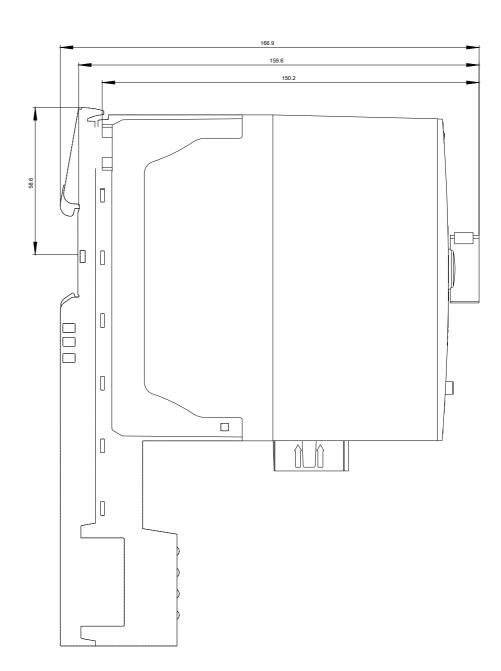
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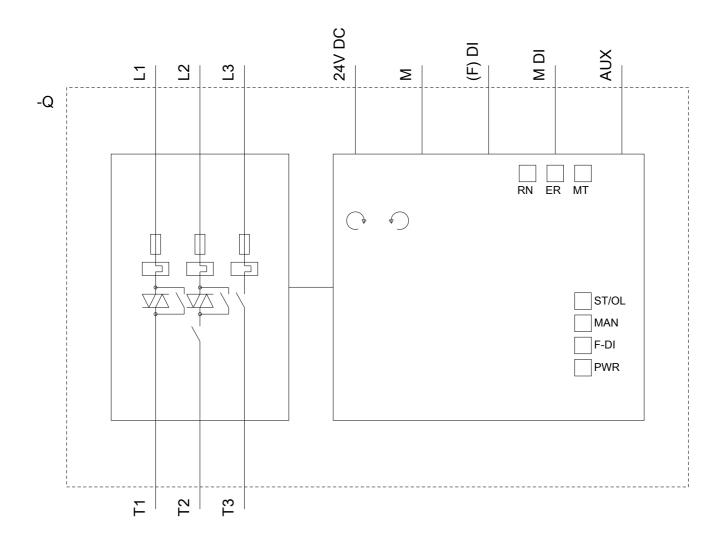
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1308-0DC00-0CP0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK1308-0DC00-0CP0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1308-0DC00-0CP0&lang=en







last modified: 10/01/2019