Data sheet

Reversing starter Electronic switching Electronic overload protection up to 4 kW / 400 V; 2.8 A to 9 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	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 	1.7 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
20,000,000
30 000 000
1
40.50 0.4 (0.0.7.70.00)
AC-53a: 9 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
2 kV
2 kV
1 kV
Class A
10 V/m
8 kV air discharge
Class A for industrial environment

Field-bound HF-interference emission acc. to CISPR11	Class A for industrial environment	
OIOI KIT		
Safety related data		
MTBF	46 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- dependent overload release	2.8 9 A	
Minimum load [%]	20 %	
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 frequency	5 %	
Operating range relative to the operating voltage at AC		
• at 50 Hz	48 500 V	
Operating current		
• at AC at 400 V rated value	9 A	
Ampacity when starting maximum	90 A	
Operating power for three-phase motors at 400 V at 50 Hz	1.5 4 kW	
Inputs/ Outputs		
Number of digital inputs	4	
• Note	4 via 3DI/LC module	
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 mode 	85 mA	

for rated value of supply voltage during	140 mA
operation	
 at rated value of supply voltage at switching on 	230 mA
Power loss [W] for rated value of supply voltage	
 in switching state OFF with bypass circuit 	2 W
 in switching state ON with bypass circuit 	3.4 W
Decrease times	
• in switching state OFF with bypass circuit	

Response times	
Switch-on delay time	20 ms
Off-delay time	35 50 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	4 000 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	3K6 (no formation of ice, no condensation), 3C3 (no salt mist),
60721	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
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	9 A
Current with locked rotor (LRA) for three-phase AC motor at 480 V rated value	72 A
Yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.33 hp
— at 230 V rated value	1 hp
 for three-phase AC motor 	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	2 hp
— at 460/480 V rated value	5 hp
Operating voltage	
• at AC at 60 Hz acc. to CSA and UL rated value	480 V

Certificates/ approvals

General Product Approval EMC Declaration of Conformity







ABS



LRS



DNV·GL



Declaration of Conformity	Test Certific- ates	Marine / Shipping			other
Miscellaneous	Type Test Certificates/Test Report	ON BUPER	Lloyd's Register	THE PROVED PRODUCT	Confirmation

other

PROFINET-Certification

Further information

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

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

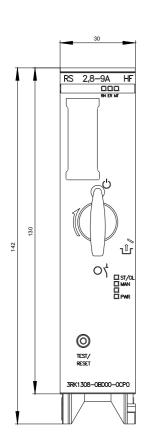
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1308-0BD00-0CP0

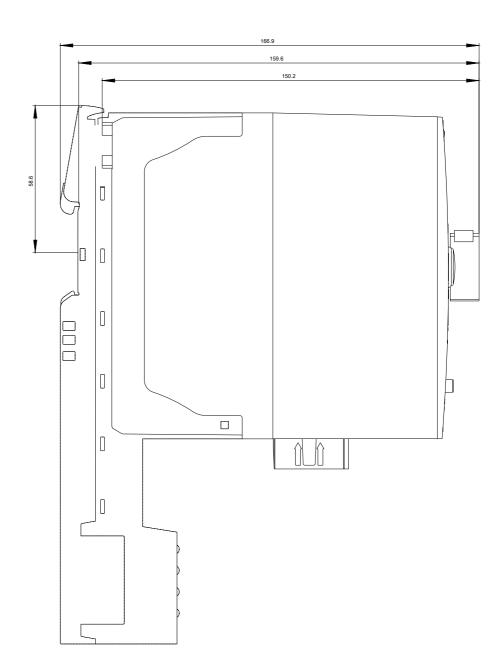
Cax online generator

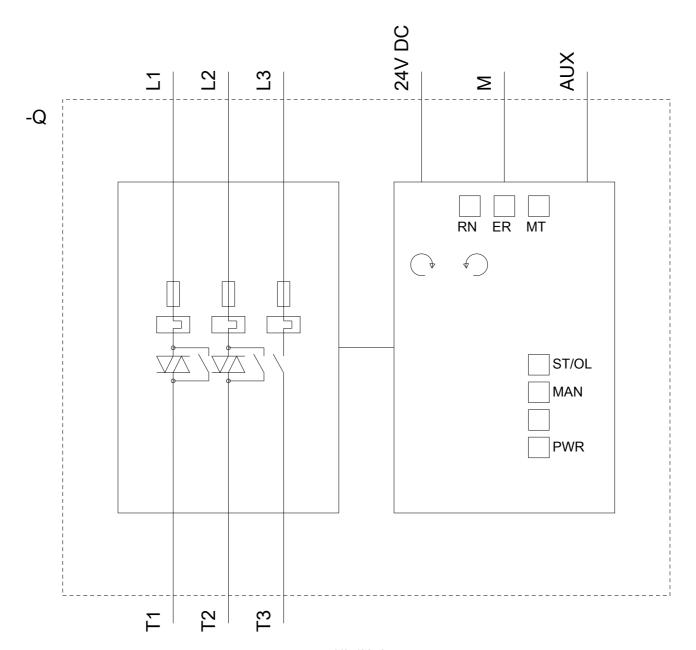
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1308-0BD00-0CP0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK1308-0BD00-0CP0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1308-0BD00-0CP0&lang=en







last modified: 10/01/2019