## SIEMENS

## Data sheet

## 3RK1308-0DC00-0CP0



Failsafe reversing starter High Feature; Electronic switching; electronic overload protection up to 1.1 kW / 400 V; Adjustment range 0.9 .. 3 A; PROFIenergy; option: 3DI/LC module

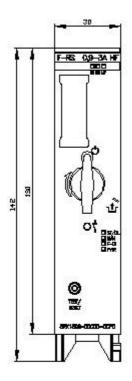
	SIMATIC		
product category	Motor starter		
product designation	Reversing starter		
product type designation	ET 200SP		
General technical data			
trip class	CLASS OFF / 5 / 10 adjustable		
equipment variant acc. to IEC 60947-4-2	3		
product function	Fail-safe reversing starter		
<ul> <li>on-site operation</li> </ul>	Yes		
<ul> <li>intrinsic device protection</li> </ul>	Yes		
<ul> <li>remote firmware update</li> </ul>	Yes		
<ul> <li>for power supply reverse polarity protection</li> </ul>	Yes		
power loss [W] for rated value of the current			
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.2 W		
insulation voltage rated value	500 V		
degree of pollution	2		
overvoltage category			
surge voltage resistance rated value	6 kV		
maximum permissible voltage for safe isolation			
<ul> <li>between main and auxiliary circuit</li> </ul>	500 V		
shock resistance	6g / 11 ms		
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz		
operating frequency maximum	1 1/s		
mechanical service life (switching cycles) of the main contacts typical	30 000 000		
type of assignment	1		
utilization category			
• acc. to IEC 60947-4-2	AC-53a: 3 A: (8-0,7: 70-32)		
reference code acc. to IEC 81346-2	Q		
Substance Prohibitance (Date)	15.04.2016 00:00:00		
product function			
direct start	Yes		
reverse starting	Yes		
product component motor brake output	No		
product function short circuit protection	Yes		
-			
design of short-circuit protection	fuse		
design of short-circuit protection breaking capacity maximum short-circuit current (lcu)	tuse		

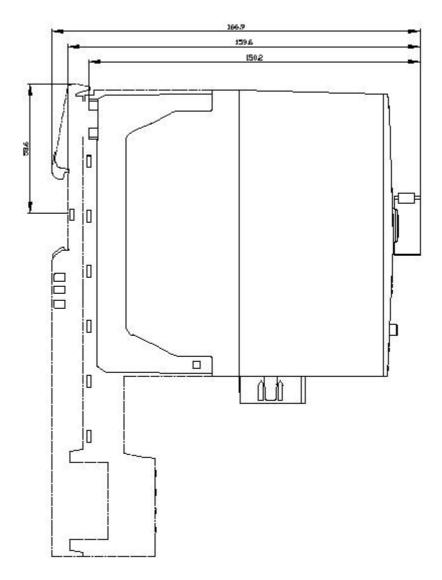
at 500 V rated value	55 kA		
at 500 V acc. to UL 60947 rated value	100 kA		
breaking capacity maximum short-circuit current (lcu) in the IT network			
<ul> <li>at 400 V rated value</li> </ul>	55 kA		
at 500 V rated value	55 kA		
Electromagnetic compatibility			
EMC emitted interference acc. to IEC 60947-1	class A		
EMC immunity acc. to IEC 60947-1	Class A		
conducted interference	OldSS A		
due to burst acc. to IEC 61000-4-4	3 kV		
due to conductor-earth surge acc. to IEC 61000-4-5	4 kV		
<ul> <li>due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul>	2 kV		
<ul> <li>due to high-frequency radiation acc. to IEC 61000- 4-6</li> </ul>	Class A		
field-based interference acc. to IEC 61000-4-3	20 V/m		
electrostatic discharge acc. to IEC 61000-4-2	8 kV air discharge		
conducted HF interference emissions acc. to CISPR11	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	Туре В		
B10d value	3 400 000		
Safety Integrity Level (SIL) acc. to IEC 61508	3		
performance level (PL) acc. to EN ISO 13849-1	e		
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		
	0.000000000.4//		
PFH acc. to IEC 61508 relating to SIL	0.000000036 1/h		
PFDavg with low demand rate acc. to IEC 61508	0.00000041		
hardware fault tolerance acc. to IEC 61508	1		
T1 value for proof test interval or service life acc. to IEC 61508	20 у		
safe state	Load circuit open		
protection class IP on the front acc. to IEC 60529	IP20		
touch protection on the front acc. to IEC 60529	finger-safe		
Main circuit			
number of poles for main current circuit	3		
design of the switching contact	Hybrid		
adjustable current response value current of the current-dependent overload release	0.9 3 A		
minimum load [%]	50 %; from smallest adjustable rated current		
type of the motor protection	solid-state		
operating voltage rated value	48 500 V		
relative symmetrical tolerance of the operating voltage	10 %		
operating frequency 1 rated value	50 Hz		
operating frequency 2 rated value	60 Hz		
relative symmetrical tolerance of the operating frequency	5 %		
relative positive tolerance of the operating frequency	5 %		
relative negative tolerance of the operating frequency	5 %		
operational current at AC at 400 V rated value	3 A		
ampacity when starting maximum	30 A		
operating power for 3-phase motors at 400 V at 50 Hz	0.37 1.1 kW		
Inputs/ Outputs			
number of digital inputs	5		
• note	4 via 3DI/LC module		
safety-related	1		

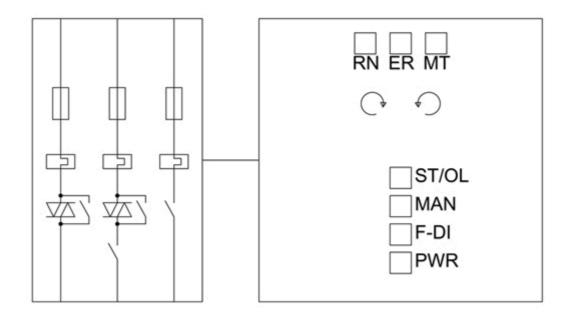
type of input characteristic	Type 1 in accordance with EN 61131-2
input voltage at digital input	
<ul> <li>at DC rated value</li> </ul>	24 V
<ul> <li>with signal &lt;0&gt; at DC</li> </ul>	0 5 V
<ul> <li>for signal &lt;1&gt; at DC</li> </ul>	15 30
input current at digital input for signal <1> typical	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	
<ul> <li>in standby mode of operation</li> </ul>	95 mA
<ul> <li>during operation</li> </ul>	160 mA
<ul> <li>at switching on of motor</li> </ul>	250 mA
power loss [W] for rated value of supply voltage	
<ul> <li>in switching state OFF with bypass circuit</li> </ul>	2.3 W
<ul> <li>in switching state ON with bypass circuit</li> </ul>	3.8 W
inrush current peak at 24 V	25 A; Observe the manual for group configuration
duration of inrush current peak at 24 V	0.145 ms
Response times	
ON-delay time	35 ms
OFF-delay time	35 50 ms
OFF-delay time with safety-related request	
<ul> <li>when switched off via control inputs maximum</li> </ul>	55 ms
<ul> <li>when switched off via supply voltage maximum</li> </ul>	120 ms
Installation/ mounting/ dimensions	
mounting position	Vertical, horizontal (observe derating)
fastening method	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 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 %
relative humidity during operation air pressure acc. to SN 31205	10 95 % 900 1 060 hPa
air pressure acc. to SN 31205	
air pressure acc. to SN 31205 Communication/ Protocol	
air pressure acc. to SN 31205 Communication/ Protocol protocol is supported	900 1 060 hPa
air pressure acc. to SN 31205 Communication/ Protocol protocol is supported • PROFIBUS DP protocol	900 1 060 hPa Yes
air pressure acc. to SN 31205 Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET protocol	900 1 060 hPa Yes Yes
air pressure acc. to SN 31205 Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET protocol product function bus communication	900 1 060 hPa Yes Yes Yes
air pressure acc. to SN 31205 Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET protocol product function bus communication protocol is supported AS-Interface protocol	900 1 060 hPa Yes Yes Yes
air pressure acc. to SN 31205 Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET protocol product function bus communication protocol is supported AS-Interface protocol product function	900 1 060 hPa Yes Yes Yes No
air pressure acc. to SN 31205 Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET protocol product function bus communication protocol is supported AS-Interface protocol product function • supports PROFIenergy measured values	900 1 060 hPa Yes Yes Yes No Yes
air pressure acc. to SN 31205 Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET protocol product function bus communication protocol is supported AS-Interface protocol product function • supports PROFIenergy measured values • supports PROFIenergy shutdown	900 1 060 hPa Yes Yes Yes No Yes
air pressure acc. to SN 31205 Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET protocol product function bus communication protocol is supported AS-Interface protocol product function • supports PROFlenergy measured values • supports PROFlenergy shutdown address space memory of address range	900 1 060 hPa Yes Yes Yes No Yes Yes

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type of electrical connection of the communication interface		Plug	contact to Base Unit			
Connections/ Termina	als					
type of electrical co	nnection					
<ul> <li>1 for digital input</li> </ul>			Pluggable module - accessory			
<ul> <li>2 for digital input</li> </ul>	•		Plug contact to Base Unit			
type of electrical co						
<ul> <li>for main energy</li> </ul>			Plug	contact to Base Unit		
<ul> <li>for load-side outgoing feeder</li> </ul>			-			
• •			-	contact to Base Unit		
for supply voltage line-side				contact to Base Unit		
wire length for motor unshielded maximum			200 n	n		
UL/CSA ratings						
full-load current (FLA) for 3-phase AC motor at 480 V rated value			3 A			
yielded mechanical	performance [hp]					
<ul> <li>for single-phase</li> </ul>	e AC motor					
	) V rated value		0.1 h	D		
— at 230 V ra	ated value		0.25			
• for 3-phase AC			0.20			
	3 V rated value		0.5 br	n		
	V rated value		0.5 hp			
			0.5 hp			
	V rated value		1.5 hp			
operating voltage at A rated value	AC at 60 Hz acc. to CS/	A and UL	480 V	/		
Certificates/ approval	S		_			
General Product Ap	proval				EMC	For use in hazard-
						ous locations
(S) M		<b>U</b>		EHC	RCM	ATEX
Functional Safety/Safety of Machinery	Ccc Declaration of Conformity	UL UL	ates	<b>ERE</b> Marine / Shipping	RCM	KEX ATEX
Safety/Safety of		Test Certifica <u>Type Test Cer</u> <u>ates/Test Re</u>	rtific-	ERE Marine / Shipping		LIS LIS
Safety/Safety of Machinery <u>Type Examination</u>	Conformity	Type Test Cer	rtific-	ERE Marine / Shipping	RCM	LIS LIS
Safety/Safety of Machinery <u>Type Examination</u> <u>Certificate</u>	Conformity CC EG-Konf,	Type Test Cer	r <u>tific-</u> port	ERE Marine / Shipping	RCM	LIS LIS
Safety/Safety of Machinery Type Examination Certificate Marine / Shipping	Conformity CEG-Konf.	Type Test Cer ates/Test Re	r <u>tific-</u> port	ERE Marine / Shipping	Image: Constraint of the constraint	<b>LIPS</b>
Safety/Safety of Machinery Type Examination Certificate Marine / Shipping	Conformity CEG-Konf. Other Confirmation	Type Test Cer ates/Test Re	rtific- port	ERE Marine / Shipping	Image: Constraint of the constraint	LIS
Safety/Safety of Machinery Type Examination Certificate Marine / Shipping	Conformity CEG-Konf. Other Confirmation	Type Test Cer ates/Test Re	rtific- port	ERE Marine / Shipping	Image: Constraint of the constraint	LIS
Safety/Safety of Machinery Type Examination Certificate Marine / Shipping	Conformity CEG-Konf. Other Confirmation wnloadcenter (Catalo com/ic10	Type Test Cer ates/Test Re	rtific- port	ERE Marine / Shipping	Image: Constraint of the constraint	LIS

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