## SIEMENS

## Data sheet

## 3RK1308-0DB00-0CP0



Failsafe reversing starter High Feature; Electronic switching; Electronic overload protection up to 0.25 kW / 400 V; Adjustment range 0.3 .. 1 A; PROFlenergy; Option: 3DI/LC module

product brand name	SIMATIC			
product category	Motor starter			
product designation	Reversing starter			
product type designation	ET 200SP			
General technical data				
equipment variant according to IEC 60947-4-2	3			
product function	Fail-safe reversing starter			
on-site operation	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			
insulation voltage rated value	500 V			
degree of pollution	2			
overvoltage category	Ш			
surge voltage resistance rated value	6 kV			
maximum permissible voltage for protective separation				
<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 (operating cycles) of the main contacts typical	30 000 000			
type of assignment	1			
utilization category				
<ul> <li>according to IEC 60947-4-2</li> </ul>	AC-53a: 1 A: (8-0,7: 70-32)			
reference code according to IEC 81346-2	Q			
Substance Prohibitance (Date)	04/15/2016			
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 4,4'-isopropylidendiphenol (Bisphenol A, - 80-05-7 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7			
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			
maximum short-circuit current breaking capacity (Icu)				
• at 400 V rated value	55 kA			
• at 500 V rated value	55 kA			
<ul> <li>at 500 V according to UL 60947 rated value</li> </ul>	100 kA			

maximum short-circuit current breaking capacity (icu) in the IT network • at 800 V rated value 55 kA Electromagnetic compatibility ENC emuthy according to IEC 60947-1 Class A ECC immuny according to IEC 61000-4-4 • due to conductor-cantus surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-3 • due to high-frequency radiation according to IEC 61000-4-3 • due to high-frequency radiation according to IEC 61000-4-3 • due to faith-frequency radiation according to IEC 61000-4-2 • due to according to IEC 61000-4-4 •
• at 400 V rated value     55 kA     56 k
+ al 500 V rated value     Electromagnetic comparison bills     Electromagnetic comparison bills     ENC emitted interference according to IEC 60947-1     Class A     Conducted interference according to IEC 61000-4.4     SkV     • due to conductor-anth surge according to IEC 61000-4.5     * due to conductor-anth surge according to IEC 61000-4.5     * due to conductor-anth surge according to IEC 61000-4.5     * due to conductor-anth surge according to IEC 61000-4.5     * due to conductor-anth surge according to IEC 61000-4.5     * due to conductor-anth surge according to IEC 61000-4.5     * due to conductor-anth surge according to IEC 61000-4.2     * due to conductor-anth surge according to IEC 61000-4.2     field-based interference according to IEC 61000-4.2     Rev at discharge     Conducted HF interference according to IEC 61000-4.2     Rev at discharge     Conducted HF interference according to IEC 61000-4.2     SkV at discharge     Conducted HF interference according to IEC 61000-4.2     Rev at discharge     Conducted HF interference according to IEC 61000-4.2     SkV at discharge     Conducted HF interference according to IEC 61000-4.2     SkV at discharge     Conducted HF interference according to IEC 61008     Safety tradet data     Safety related data     Safety related data     Safety related data     Safety integrity Level (CIL) according to IEC 6108     Safety integrity Level (SIL) according to IEC 6108     PFT according
Electromagnetic compatibility ENC emitted interference according to IEC 60947-1 ENC immunity according to IEC 61004-4 Conducted interference      due to burst according to IEC 61000-44     due to conductor-and totor surge according to IEC 61000-45     due to conductor-and surge according to IEC 61000-45     due to conductor-and totor surge according to IEC 61000-45     due to conductor-and totor surge according to IEC 61000-45     due to conductor-and totor surge according to IEC 61000-45     due to conductor-and totor surge according to IEC 61000-45     field-based interference according to IEC 61000-42     field-based interference according to IEC 61000-43     advised to the second to the field field of the second to the secon
EMC emitted interference according to IEC 60947-1     class A       EMC immunity according to IEC 60947-1     class A       conducted interference     SV       • due to burst according to IEC 6100-4.4     SV       • due to conductor-earth surge according to IEC 61000-4.5     SV       • due to bingh-frequency radiation according to IEC 61000-4.5     SV       • due to high-frequency radiation according to IEC 61000-4.2     2V V       • due to high-frequency radiation according to IEC 61000-4.2     8 KV air discharge       conducted HF Interference amissions according to CISPR11     Class A       field-based Interference amission according to CISPR11     Class A for industrial environment       GSPR11     field-based Interference amission according to CISPR11     Class A for industrial environment       Safety related data     Load circuit open     Effect       safet state     Load circuit open     Effect       B1dd value     10 100 000     Safety related data       adapt entitled fata     0     000       Safet state     Load circuit open     Effect       B1dd value     10 100 000     Safet state       Galganostits test Interval by Internal test function maximum     600 s       PFDavg with individue according to EC 61508     1EC 6109.4       giagnostits test Interval by Internal test function maximum     600 s       PFDavg with
EMC immunity according to IEC 60947-1       Class A         conducted interference       3 kV         • due to conductor-earth surge according to IEC 61000-4-5       4 kV         • due to conductor-earth surge according to IEC 61000-4-5       4 kV         • due to inductor-conductor surge according to IEC 61000-4-5       4 kV         • due to high-frequency radiation according to IEC 61000-4-3       20 V/m         electrostatic discharge according to IEC 61000-4-3       20 V/m         electrostatic discharge according to IEC 61000-4-2       8 kV air discharge         conducted HF Interference emissions according to CISPR11       Class A for industrial environment         Safety rotated data
conducted interference       3 kV         • due to burst according to IEC 61000-4-4       3 kV         • due to conductor-conductor surge according to IEC 61000-4-5       4 kV         • due to conductor-conductor surge according to IEC 61000-4-5       2 kV         • due to bigh-frequency radiation according to IEC 61000-4-3       20 V/m         electrostatic discharge according to IEC 61000-4-2       8 kV air discharge         conducted HF interference emissions according to CISPR11       Class A for industrial environment         Goldveted to burst according to IEC 61000-4-2       8 kV air discharge         conducted data
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• due to high-frequency radiation according to IEC 61000- 4-6         Class A           field-based interference according to IEC 61000-4-2         8 kV air discharge           conducted HF interference emissions according to CISPR11         Class A for industrial environment           field-based interference emission according to CISPR11         Class A for industrial environment           Safety froated data         Safety froated data           safet device type according to IEC 61508-2         Type B           safet device type according to IEC 61508         3           performance level (PL) according to IEC 61508         3           performance level (PL) according to IEC 61508         3           stop category according to EN 1050 13849-1         e           category according to EN 1050 13849-1         4           diagnostics test interval by internal test function maximum         600 s           diagnostics test interval by internal test function maximum         600 s           PFDavg with low demand rate according to IEC 61508         1           protection class IP on the front according to IEC 60529         IP20           touch protection on the front according to IEC 60529         IP20           touch protection on the front according to IEC 60529         IP20           touch protection on the front according to IEC 60529         IP20           distig of th
field-based interference according to IEC 61000-4-3       20 V/m         electrostatic discharge according to IEC 61000-4-2       8 kV air discharge         conducted HF interference emissions according to       Class A for industrial environment         CISPR11       Class A for industrial environment         Safety related data       Safety related data         safety device type according to IEC 61508-2       Type B         safet device type according to IEC 61508-2       Type B         safet device type according to IEC 61508       10 100 000         Safety Integrity Level (SL) according to IEC 61508       3         performance level (PL) according to EN ISO 13849-1       e         category according to EN ISO 13849-1       4         diagnostics test interval by internal test function maximum       600 s         PFH according to IEC 61508       4.1E-7         hardware fault tolerance according to IEC 61508       1         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC
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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 %
relative symmetrical tolerance of the operating voltage10 %operating frequency 1 rated value50 Hzoperating frequency 2 rated value60 Hzrelative symmetrical tolerance of the operating frequency5 %relative positive tolerance of the operating frequency5 %relative negative tolerance of the operating frequency5 %
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 %         relative negative tolerance of the operating frequency       5 %
operating frequency 2 rated value60 Hzrelative symmetrical tolerance of the operating frequency5 %relative positive tolerance of the operating frequency5 %relative negative tolerance of the operating frequency5 %
relative symmetrical tolerance of the operating frequency5 %relative positive tolerance of the operating frequency5 %relative negative tolerance of the operating frequency5 %
relative positive tolerance of the operating frequency       5 %         relative negative tolerance of the operating frequency       5 %
relative negative tolerance of the operating frequency 5 %
operational current at AC at 400 V rated value
ampacity when starting maximum 10 A 10 A
operating power for 3-phase motors at 400 V at 50 Hz 0.09 0.25 kW
Inputs/ Outputs
number of digital inputs 5
note     4 via 3DI/LC module
safety-related
type of input characteristic Type 1 in accordance with EN 61131-2
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

augustus valtage 4 at DO sate duratus					
supply voltage 1 at DC rated value	20.414				
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				
Power Electronics					
operational current					
at 40 °C rated value	1A				
• at 50 °C rated value	1A				
• at 55 °C rated value	1A				
at 60 °C rated value	1A				
Installation/ mounting/ dimensions					
	Vartical harizantal (abaanya darating)				
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					
<ul> <li>during operation</li> </ul>	-25 +60 °C; For derating see manual				
<ul> <li>during storage</li> </ul>	-40 +70 °C				
during transport	-40 +70 °C				
environmental category during operation according to IEC	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must				
60721	not get into the devices)				
relative humidity during operation	10 95 %				
air pressure according 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					
<ul> <li>supports PROFlenergy measured values</li> </ul>	Yes				
<ul> <li>supports PROFlenergy shutdown</li> </ul>	Yes				
address space memory of address range					
of the inputs	4 byte				
	2 byte				
<ul> <li>of the outputs</li> </ul>					
• of the outputs type of electrical connection of the communication interface	Plug contact to Base Unit				
type of electrical connection of the communication interface					
type of electrical connection of the communication interface Connections/ Terminals					

type of electrical con	nection					
<ul> <li>for main energy</li> </ul>	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				
JL/CSA ratings						
full-load current (FLA) for 3-phase AC motor at 480 V rated value		1 A				
operating voltage at AC at 60 Hz according to CSA and UL rated value		480 V				
Certificates/ approvals						
General Product App	roval					EMC
SP M		<u>Confirmatio</u>	n	(UL)	EHC	RCM
For use in hazard- ous locations	Functional Safety/Safety of Ma- chinery	Declaration of	Conformity		Test Certificates	Marine / Shipping
K ATEX	<u>Type Examination Cer-</u> tificate	UK CA		CE EG-Konf.	Type Test Certific- ates/Test Report	ABS
Marine / Shipping			othe	r		
BUREAU VERITAS		Lloyds Register urs	2	<u>Confirmation</u>	Profibus	
	to exit the Russian mark					
https://press.siemens.c Siemens is working o Please contact your loc	com/global/en/pressrelease on the renewal of the curr cal Siemens office on the s other than the sanctioned E	ent EAC certification of validity of	t <b>tes.</b> the EAC certif	ication if you inte	end to import or offer to sup	ply these products to ar

Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RK1308-0DB00-0CP0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1308-0DB00-0CP0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK1308-0DB00-0CP0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RK1308-0DB00-0CP0&lang=en

