## **SIEMENS**

Data sheet 3RK1908-1SK00



ET 200SP MS starter kit including 3RK 1308 motor starter 0.9 - 3 A, reversing starter, BaseUnit with infeed 24 V and 500 V, EMC distance module (blank module 15 mm)

Figure similar

product brand name	SIMATIC
product category	Motor starter
product designation	Starter kit
product type designation	ET 200SP
General technical data	
equipment version according to IEC 60947-4-2	3
product function	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	III
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
between main and auxiliary circuit	500 V
shock resistance	6g / 11 ms
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
mechanical service life (operating cycles) of the main contacts typical	30 000 000
type of assignment	1
utilization category	
according to IEC 60947-4-2	AC-53a: 3 A: (8-0,7: 70-32)
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/13/2019
Weight	0.81 kg
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
Electromagnetic compatibility	
EMC emitted interference according to IEC 60947-1	class A

EMC immunity according to IEC 6004-1  • due to conductor immunity according to IEC 61000-45  • due to conductor earth surge according to IEC 61000-45  • due to conductor earth surge according to IEC 61000-45  • due to conductor earth surge according to IEC 61000-45  • due to be to surge according to IEC 61000-45  • due to be to surge according to IEC 61000-45  • due to be to surge according to IEC 61000-42  • due to be surger according to IEC 61000-42  • due to be surger according to IEC 61000-42  • due to be surger according to IEC 61000-42  • due to be surger according to IEC 61000-42  • due to be surger according to IEC 61000-42  • due to be surger according to IEC 61000-42  • due to be surger according to IEC 61000-42  • due to be surger according to IEC 61000-42  • due to be surger according to IEC 61000-42  • due to be surger according to IEC 61000-42  • due to be surger according to IEC 61000-42  • due to be surger according to IEC 61000-42  • due to due to the surger according to IEC 61000-42  • due to due to the surger according to IEC 61000-42  • due to due to the surger according to IEC 61000-42  • due to due to the surger according to IEC 60029  • due to due to the surger according to IEC 60029  • due to due to the surger according to IEC 60029  • due to due to the surger according to IEC 60029  • due to due to the surger according to IEC 60029  • due to due to the surger according to IEC 60029  • due to due to due to the due t		
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<ul> <li>minimum permissible</li> <li>maximum permissible</li> <li>28.8 V</li> <li>supply voltage at DC rated value</li> <li>24 V</li> <li>duration of inrush current peak at 24 V</li> <li>Response times</li> <li>OFF-delay time</li> <li>35 50 ms</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>fastening method</li> <li>pluggable in BaseUnit</li> <li>height</li> <li>142 mm</li> <li>width</li> <li>30 mm</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>upwards</li> <li>downwards</li> <li>downwards</li> <li>fonm</li> </ul> Ambient conditions <ul> <li>installation altitude at height above sea level maximum</li> <li>during operation</li> <li>during storage</li> <li>during storage</li> <li>during transport</li> <li>eunired spacing with side, by-side mounting</li> <li>upwards</li> <li>fonm</li> </ul> Ambient conditions <ul> <li>installation altitude at height above sea level maximum</li> <li>during storage</li> <li>during storage</li> <li>during transport</li> <li>eunired reading see manual</li> <li>who "C; For derating see manual</li> <li>during storage</li> <li>during transport</li> <li>during transport</li> <li>during transport</li> <li>fon formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must</li> </ul>		
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OFF-delay time  OFF-delay time  Installation/ mounting/ dimensions  mounting position  fastening method height height  vidth 30 mm  depth required spacing with side-by-side mounting outwards odownwards  Ambient conditions  installation altitude at height above sea level maximum oduring operation oduring storage oduring transport outwards outwa		
DFF-delay time   35 50 ms   Installation/ mounting/ dimensions   Wertical, horizontal (observe derating)   fastening method   pluggable in BaseUnit   142 mm   width   30 mm   depth   150 mm   required spacing with side-by-side mounting   • upwards   • downwards   50 mm	·	0.11110
Installation/ mounting/ dimensions  mounting position  fastening method  pluggable in BaseUnit  height  142 mm  width  30 mm  depth  required spacing with side-by-side mounting  • upwards • downwards  foo mm  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  environmental category during operation according to IEC  Wertical, horizontal (observe derating)  pluggable in BaseUnit  142 mm  50 mm  50 mm  400 m; For derating see manual  -25 +60 °C; For derating see manual  -40 +70 °C  -40 +70 °C  8K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must)		35 50 mc
mounting position  fastening method  pluggable in BaseUnit  height  142 mm  width  30 mm  depth  required spacing with side-by-side mounting  • upwards • downwards  • downwards  fond  mablient conditions  installation altitude at height above sea level maximum  • during operation • during storage • during storage • during transport  environmental category during operation according to IEC  Vertical, horizontal (observe derating)  pluggable in BaseUnit  142 mm  30 mm  50 mm  4000 m; For derating see manual  -25 +60 °C; For derating see manual  -40 +70 °C  -40 +70 °C  environmental category during operation according to IEC  3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must)		00 00 III0
fastening method  height  142 mm  width 30 mm  depth 150 mm  required spacing with side-by-side mounting  • upwards • downwards  • downwards  **To mm  Ambient conditions  installation altitude at height above sea level maximum  • during operation • during storage • during transport  • during transport  • during operation according to IEC  **To maximum and the maximum and the maximum according to IEC  **To maximum and the maximum and the maximum according to IEC  **To maximum and the maximum according to IEC  **To maximum	<u> </u>	Variable harizantal (abasaria desettive)
height  width  30 mm  depth  150 mm  required spacing with side-by-side mounting  • upwards • downwards  • downwards  • downwards  50 mm  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during storage • during transport  environmental category during operation according to IEC  3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must)		
width  depth  150 mm  required spacing with side-by-side mounting  • upwards • downwards  • downwards  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  • during transport  environmental category during operation according to IEC  30 mm  4000 m; For derating see manual  4000 m; For derating see manual  -25 +60 °C; For derating see manual  -40 +70 °C  3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must)	<del>-</del>	
depth     150 mm       required spacing with side-by-side mounting     50 mm       • upwards     50 mm       • downwards     50 mm       Ambient conditions     4 000 m; For derating see manual       installation altitude at height above sea level maximum     4 000 m; For derating see manual       ambient temperature     -25 +60 °C; For derating see manual       • during operation     -25 +60 °C; For derating see manual       • during storage     -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)	<del>-</del>	
required spacing with side-by-side mounting  • upwards • downwards  • downwards  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  • during transport  environmental category during operation according to IEC  3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must)		
<ul> <li>upwards</li> <li>downwards</li> <li>50 mm</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>environmental category during operation according to IEC</li> <li>3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must</li> </ul>	·	15U mm
<ul> <li>◆ downwards</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>4 000 m; For derating see manual</li> <li>ambient temperature</li> <li>◆ during operation</li> <li>◆ during storage</li> <li>◆ during transport</li> <li>-40 +70 °C</li> <li>environmental category during operation according to IEC</li> <li>3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must)</li> </ul>		
installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during transport  • during transport  -40 +70 °C  environmental category during operation according to IEC  4 000 m; For derating see manual  -25 +60 °C; For derating see manual  -40 +70 °C  -40 +70 °C  3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must)	·	
installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during transport  • during transport  environmental category during operation according to IEC  4 0.00 m; For derating see manual  -25 +60 °C; For derating see manual  -40 +70 °C  -40 +70 °C  3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must)		50 mm
ambient temperature	Ambient conditions	
<ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>during transport</li> <li>menvironmental category during operation according to IEC</li> <li>during transport</li> <li>3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must)</li> </ul>	installation altitude at height above sea level maximum	4 000 m; For derating see manual
<ul> <li>during storage</li> <li>during transport</li> <li>during transport</li> <li>-40 +70 °C</li> <li>environmental category during operation according to IEC</li> <li>3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must)</li> </ul>	ambient temperature	
• 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	<ul><li>during operation</li></ul>	-25 +60 °C; For derating see manual
environmental category during operation according to IEC 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must	during storage	-40 +70 °C
	during transport	-40 +70 °C
not get into the devices)	environmental category during operation according to IEC	

relative humidity during operation	10 95 %
air pressure according to SN 31205	900 1 060 hPa
Communication/ Protocol	
protocol is supported	
<ul> <li>PROFIBUS DP protocol</li> </ul>	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
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	
<ul> <li>for main energy infeed</li> </ul>	Plug contact to Base Unit
<ul> <li>for load-side outgoing feeder</li> </ul>	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 3-phase AC motor at 480 V rated value	3 A
current with locked rotor (LRA) for 3-phase AC motor at 480 V rated value	24 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 230 V rated value	0.25 hp
• for 3-phase AC motor	
<ul> <li>at 200/208 V rated value</li> </ul>	0.5 hp
<ul> <li>at 220/230 V rated value</li> </ul>	0.5 hp
— at 460/480 V rated value	1.5 hp
operating voltage at AC at 60 Hz according to CSA and UL rated value	480 V
Approvals Certificates	



**General Product Approval** 





Type Test Certificates/Test Report

**Test Certificates** 

Confirmation

other

Environmental Confirmations

Environment

## Further information

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=3RK1908-1SK00

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RK1908-1SK00}$ 

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RK1908-1SK00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RK1908-1SK00\&lang=enderview.pdf}}$ 

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