SIEMENS

Data sheet

3RK1308-0DB00-0CP0



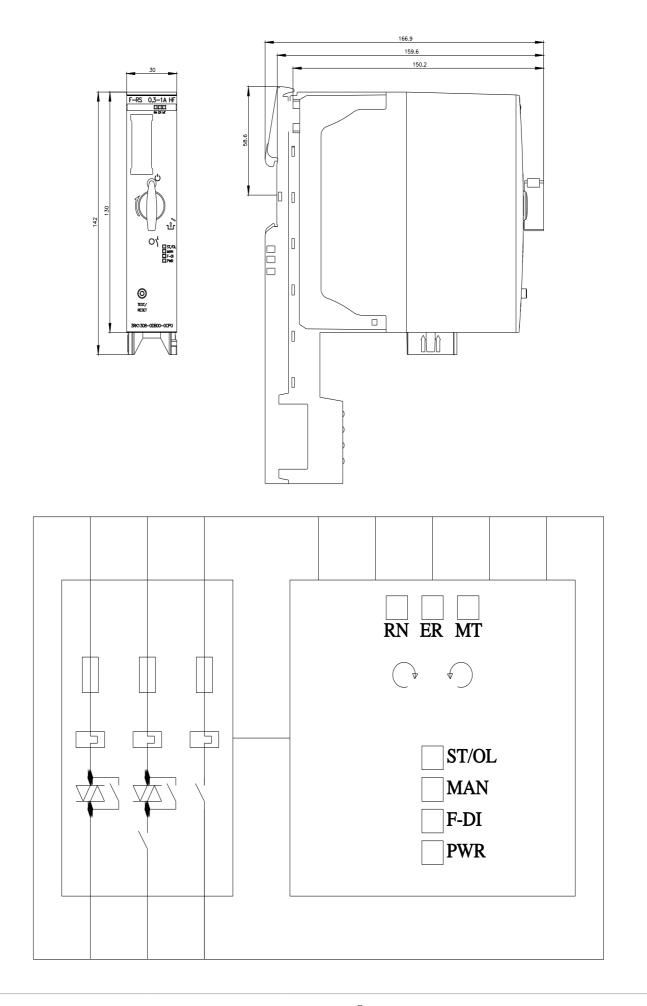
Failsafe reversing starter High Feature; Electronic switching; Electronic overload protection up to 0.25 kW / 400 V; Adjustment range 0.3 .. 1 A; PROFlenergy; Option: 3DI/LC module

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		
 intrinsic device protection 	Yes		
 remote firmware update 	Yes		
 for power supply reverse polarity protection 	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			
 between main and auxiliary circuit 	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			
 according to IEC 60947-4-2 	AC-53a: 1 A: (8-0,7: 70-32)		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	04/15/2016		
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		
 at 500 V according to UL 60947 rated value 	100 kA		
maximum short-circuit current breaking capacity (Icu) in the IT network			
• at 400 V rated value	55 kA		
• at 500 V rated value	55 kA		

ENC emitted interference according to EC 0047-1 Class A ENC immunity according to EC 00047-1 Class A end to found according to EC 01004-4 SIV endet to found according to EC 01004-2 Class A for industrial environment Eddet cond the Interference according to CISPR11 Class A for industrial environment State of according to EC 01908-2 Type B safe state 10 10 000 Site of according to EN SI 01394-1 etclass provide according to EN SI 01394-1 4 stop category according to EN SI 01394-1 4 stop category according to EN SI 01394-1 4 stop category according to EN SI 01394-1 4 stop ca	Electromagnetic compatibility			
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relative symmetrical tolerance of the operating frequency 5 % relative negative tolerance of the operating frequency 5 % operational current at AC at 400 V rated value 1 A ampacity when starting maximum 10 A operational current at AC at 400 V at 50 Hz 0.09 0.25 kW Inputs/ Outputs 10 A 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 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 DC supply voltage of the supply voltage DC supply voltage 1 at DC rated value 20.4 V • minimum permissible 20.4 V • maximum permissible 28.8 V	operating frequency 1 rated value	50 Hz		
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 1 A ampacity when starting maximum 10 A operating power for 3-phase motors at 400 V at 50 Hz 0.09 0.25 kW Inputs/ Outputs 5 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 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 DC type of voltage of the supply voltage DC supply voltage 1 at DC rated value 0.009 A e minimum permissible 20.4 V • maximum permissible 28.8 V	operating frequency 2 rated value	60 Hz		
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operational current at AC at 400 V rated value 1 A ampacity when starting maximum 10 A operating power for 3-phase motors at 400 V at 50 Hz 0.09 0.25 kW Inputs/ Outputs 5 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 24 V • 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 DC supply voltage of the supply voltage DC supply voltage 1 at DC rated value 20.4 V • minimum permissible 20.4 V	relative positive tolerance of the operating frequency	5 %		
ampacity when starting maximum10 Aoperating power for 3-phase motors at 400 V at 50 Hz0.09 0.25 kWInputs/ Outputs5number of digital inputs5• note4 via 3DI/LC module• safety-related1type of input characteristicType 1 in accordance with EN 61131-2input voltage at digital input24 V• at DC rated value24 V• with signal <0> at DC0 5 V• for signal <1> at DC15 30input current at digital input for signal <1> typical0.009 ASupply voltageDCsupply voltage 1 at DC rated value20.4 V• minimum permissible28.8 V	relative negative tolerance of the operating frequency	5 %		
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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 - • 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 of the supply voltage DC supply voltage 1 at DC rated value - • minimum permissible 20.4 V • maximum permissible 28.8 V	operating power for 3-phase motors at 400 V at 50 Hz	0.09 0.25 kW		
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Supply voltage DC supply voltage 1 at DC rated value 0 • minimum permissible 20.4 V • maximum permissible 28.8 V	● for signal <1> at DC	15 30		
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supply voltage 1 at DC rated value 20.4 V • minimum permissible 28.8 V	Supply voltage			
● minimum permissible20.4 ∨● maximum permissible28.8 ∨	type of voltage of the supply voltage	DC		
• maximum permissible 28.8 V	supply voltage 1 at DC rated value			
	minimum permissible	20.4 V		
oursely voltage at DC rated volue	maximum permissible	28.8 V		
Supply Voltage at DC rated value 24 V	supply voltage at DC rated value	24 V		

concurred convert for voted value of comply valters			
consumed current for rated value of supply voltage	05 A		
in standby mode of operation	95 mA		
 during operation 	160 mA		
at switching on of motor	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		
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			
 when switched off via control inputs maximum 	55 ms		
 when switched off via supply voltage maximum 	120 ms		
Power Electronics			
operational current			
 at 40 °C rated value 	1 A		
• at 50 °C rated value	1 A		
at 55 °C rated value	1 A		
• at 60 °C rated value	1 A		
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			
	50 mm		
 upwards downwards 	50 mm		
Ambient conditions	30 mm		
installation altitude at height above soa lovel maximum	4 000 m: For deroting soo manual		
installation altitude at height above sea level maximum	4 000 m; For derating see manual		
ambient temperature			
ambient temperature during operation 	-25 +60 °C; For derating see manual		
ambient temperature during operation during storage 	-25 +60 °C; For derating see manual -40 +70 °C		
ambient temperature during operation during storage during transport 	-25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C		
ambient temperature during operation during storage 	-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		
ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721	-25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C		
ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation	-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 not get into the devices) 10 95 %		
ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205	-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 not get into the devices)		
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ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported	-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 not get into the devices) 10 95 % 900 1 060 hPa		
ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFIBUS DP protocol	-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 not get into the devices) 10 95 % 900 1 060 hPa		
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ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET protocol product function bus communication	-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 not get into the devices) 10 95 % 900 1 060 hPa Yes Yes		
ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET protocol product function bus communication protocol is supported AS-Interface protocol	-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 not get into the devices) 10 95 % 900 1 060 hPa		
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UL/CSA ratings full-load current (FLA) for 3 value operating voltage at AC at rated value Certificates/ approvals General Product Approva	60 Hz according to CS		1 A 480 V			
value operating voltage at AC at rated value Certificates/ approvals	60 Hz according to CS	A and UL				
rated value Certificates/ approvals		_	480 V			
		Confirmation				
General Product Approv		Confirmation				
(SP)	(\mathbf{w})	Confirmation			EMC	
CSA	CCC			EHC	RCM	
For use in hazard-	Functional Safety/Safety of Ma- Shinery	Declaration of	Conformity	Test Certificates	Marine / Shipping	
	vpe Examination Cer- tificate	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	ABS	
Marine / Shipping			other			
B U R E A U VERITAS		Llovd's Register urs	Confirmation	Profibus		
urther information Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an						
EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). 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⟨=en						



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