SIEMENS

Data sheet

3RK1308-0DD00-0CP0



Failsafe reversing starter High Feature; Electronic switching; Electronic overload protection up to 4 kW / 400 V; Adjustment range 2.8 .. 9 A; PROFIenergy; Option: 3DI/LC module

A second and				
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	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			
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: 9 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			

Electromagnetic compatibility				
EMC emitted interference according to IEC 60947-1	class A			
EMC immunity according to IEC 60947-1	Class A			
conducted interference				
due to burst according to IEC 61000-4-4	3 kV			
• due to conductor-earth surge according to IEC 61000-4-5	4 kV			
due to conductor-conductor surge according to IEC	2 kV			
61000-4-5				
 due to high-frequency radiation according to IEC 61000- 4-6 	Class A			
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 CISPR11	Class A for industrial environment			
field-bound HF interference emission according to CISPR11	Class A for industrial environment			
Safety related data				
safety device type according to IEC 61508-2	Туре В			
safe state	Load circuit open			
B10d value	2 200 000			
Safety Integrity Level (SIL) according to IEC 61508	3			
performance level (PL) according to EN ISO 13849-1	е			
category according to EN ISO 13849-1	4			
stop category according to EN 60204-1	0			
diagnostics test interval by internal test function maximum	600 s			
PFH according to IEC 61508 relating to SIL	3.6E-9 1/h			
PFDavg with low demand rate 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	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	2.8 9 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	9 A			
ampacity when starting maximum	90 A			
operating power for 3-phase motors at 400 V at 50 Hz	1.5 4 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				
• 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			
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 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	9 A				
• at 50 °C rated value	9 A				
● at 55 °C rated value	9 A				
• at 60 °C rated value	7 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					
• 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				
installation altitude at height above sea level maximum ambient temperature					
installation altitude at height above sea level maximum ambient temperature • during operation	-25 +60 °C; For derating see manual				
installation altitude at height above sea level maximum ambient temperature • during operation • during storage	-25 +60 °C; For derating see manual -40 +70 °C				
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport	-25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C				
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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		9 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 3-phase AC motor						
— at 200/208 V rated value		2 hp				
— at 220/230	— at 220/230 V rated value		2 hp			
— at 460/480 V rated value		5 hp				
operating voltage at AC at 60 Hz according to CSA and UL rated value		480 V				
ertificates/ approvals						
General Product App	proval					EMC
(SP)	<u>Confirmation</u>				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	CE EG-Konf.		UK CA	Type Test Certific- ates/Test Report	ABS
Marine / Shipping			ot	her		Dangerous Good
BUREAU VERITAS		Lloyds Register urs		<u>Confirmation</u>	Profibus	Transport Information
	I to exit the Russian mark		own-russian-	<u>business</u>		

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=3RK1308-0DD00-0CP0

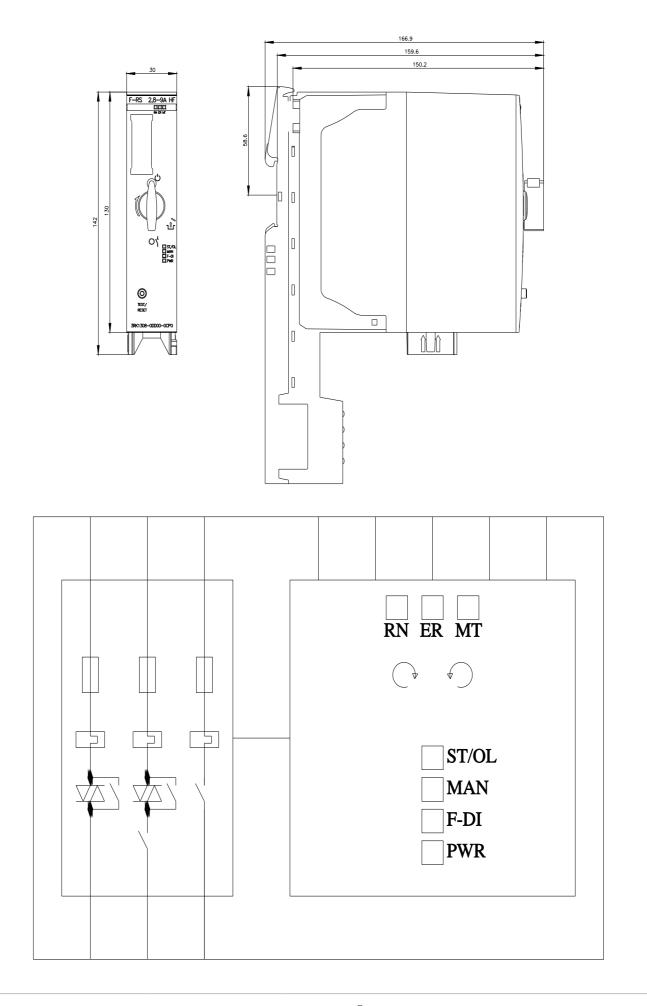
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1308-0DD00-0CP0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RK1308-0DD00-0CP0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1308-0DD00-0CP0&lang=en



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