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; PROFIenergy; Option: 3DI/LC module

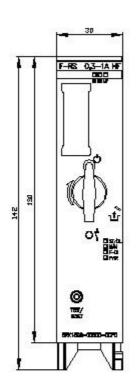
product brand name	SIMATIC
product category	Motor starter
product designation	Reversing starter
product type designation	ET 200SP
General technical data	
trip class	CLASS OFF / 5 / 10 adjustable
equipment variant acc. to IEC 60947-4-2	3
product function	Fail-safe reversing starter
 on-site operation 	Yes
 intrinsic device protection 	Yes
 remote firmware update 	Yes
 for power supply reverse polarity protection 	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state per pole 	0.02 W
insulation voltage rated value	500 V
degree of pollution	2
overvoltage category	III
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 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 (switching cycles) of the main contacts typical	30 000 000
type of assignment	1
utilization category	
• acc. to IEC 60947-4-2	AC-53a: 1 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
	fuse

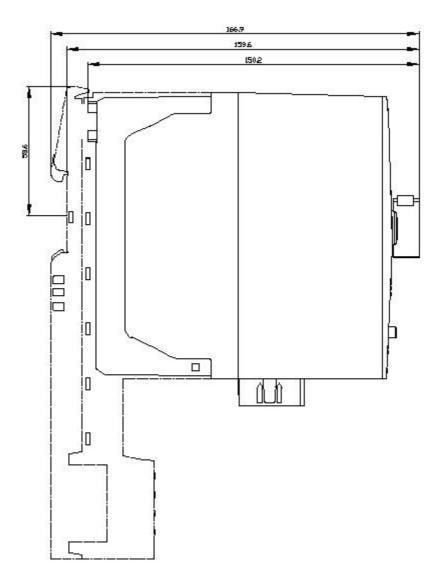
• at 500 V rated value	55 kA		
• at 500 V acc. to UL 60947 rated value	100 kA		
breaking capacity maximum short-circuit current (lcu) in the IT network			
at 400 V rated value	55 kA		
at 500 V rated value	55 kA		
	55 MA		
Electromagnetic compatibility			
EMC emitted interference acc. to IEC 60947-1	class A		
EMC immunity acc. to IEC 60947-1	Class A		
conducted interference			
• due to burst acc. to IEC 61000-4-4	3 kV		
 due to conductor-earth surge acc. to IEC 61000-4-5 	4 kV		
 due to conductor-conductor surge acc. to IEC 61000-4-5 	2 kV		
 due to high-frequency radiation acc. to IEC 61000- 4-6 	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			
	TracD		
safety device type acc. to IEC 61508-2	Type B		
B10d value	10 100 000		
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 maximum	600 s		
PFH acc. to IEC 61508 relating to SIL	0.000000036 1/h		
PFDavg with low demand rate acc. to IEC 61508	0.0000041		
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	0.3 1 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	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			
number of digital inputs	5		
• note	4 via 3DI/LC module		
 safety-related 	1		

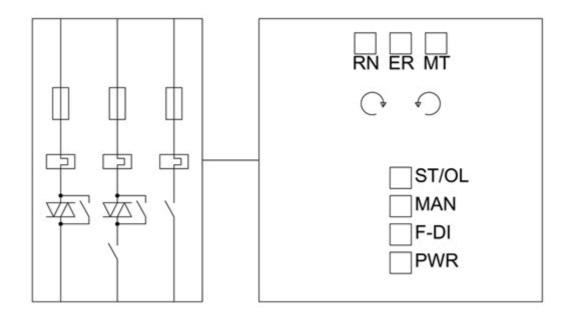
type of input characteristic	Type 1 in accordance with EN 61131-2		
input voltage at digital input			
 at DC rated value 	24 V		
 with signal <0> at DC 	0 5 V		
 for signal <1> at DC 	15 30		
input current at digital input for signal <1> typical	0.009 A		
Supply voltage			
type of voltage of the supply 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		
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		
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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		

	nection of the commun	ication	Plug contact to Base U	nit			
interface							
Connections/ Termina							
type of electrical co							
 1 for digital input signals 		Pluggable module - acc	-				
2 for digital input signals		Plug contact to Base Unit					
	type of electrical connection						
 for main energy infeed 		Plug contact to Base Unit					
 for load-side outgoing feeder 		Plug contact to Base Unit					
 for supply volta 	 for supply voltage line-side 		Plug contact to Base Unit				
wire length for moto	wire length for motor unshielded maximum			200 m			
UL/CSA ratings							
full-load current (FLA) rated value) for 3-phase AC moto	r at 480 V	1 A				
operating voltage at A rated value	AC at 60 Hz acc. to CS	A and UL	480 V				
Certificates/ approval							
General Product Ap	oproval			EMC	For use in hazard- ous locations		
(SP)			EHC	RCM	K ATEX		
Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certifica	ates Marine / Shippi	ng			
<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	<u>Type Test Ce</u> <u>ates/Test Re</u>	rtific- port ABS	BUREAU VERITAS	Lloyd's Register us		
Marine / Shipping	other						
DNV-GL	<u>Confirmation</u>	Profibus					
Further information Information- and Do https://www.siemens.	wnloadcenter (Catalo com/ic10	ogs, Brochures,)				
Industry Mall (Online ordering system)							
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1308-0DB00-0CP0							
Cax online generato			lt.aspx?lang=en&mlfb=3R				
Service&Support (M	anuals, 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







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