SIEMENS

Data sheet

3RK1308-0CD00-0CP0



Fail-safe direct-on-line 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

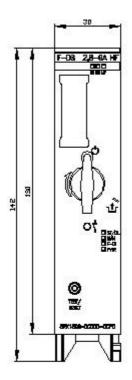
product brand name	SIMATIC
product category	Motor starter
product designation	Direct-on-line starter
product type designation	ET 200SP
General technical data	-
trip class	CLASS OFF / 5 / 10 adjustable
equipment variant acc. to IEC 60947-4-2	3
product function	Fail-safe direct-on-line starter
 on-site 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 	1.7 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: 9 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	No
product component motor brake output	No
product function short circuit protection	Yes
design of short-circuit protection	fuse
breaking capacity maximum short-circuit current (Icu)	
 at 400 V rated value 	55 kA

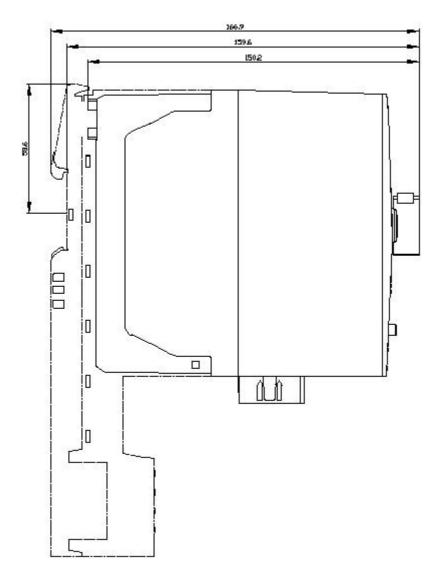
 at 500 V rated value 	55 kA			
at 500 V acc. to UL 60947 rated value	100 kA			
breaking capacity maximum short-circuit current (Icu) in the IT network				
at 400 V rated value	55 kA			
• at 500 V rated value	55 kA			
Electromagnetic compatibility				
EMC emitted interference acc. to IEC 60947-1	class A			
EMC immunity acc. to IEC 60947-1	Class A			
conducted interference	Cidss A			
due to burst acc. to IEC 61000-4-4	3 kV			
• due to conductor-earth surge acc. to IEC 61000-4-5				
 due to conductor-conductor surge acc. to IEC 01000-4-5 due to conductor-conductor surge acc. to IEC 	4 kV 2 kV			
61000-4-5	2 NV			
 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				
safety device type acc. to IEC 61508-2	Туре В			
B10d value	2 200 000			
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	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			

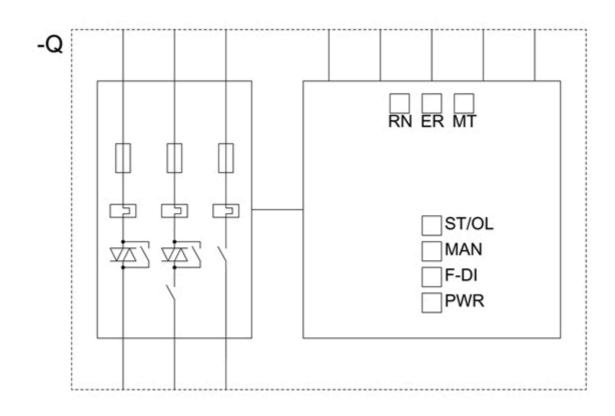
type of input characteristic	Type 1 in accordance with EN 61131-2
input voltage at digital input	
 at DC rated value 	24 V
 with signal <0> at DC 	0 5 V
 for signal <1> at DC 	15 30
input current at digital input for signal <1> typical	0.009 A
Supply voltage	
type of voltage of the supply voltage	DC
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
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
air pressure acc. to SN 31205 Communication/ Protocol protocol is supported • PROFIBUS DP protocol	900 1 060 hPa Yes
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air pressure acc. to SN 31205 Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET protocol product function bus communication	900 1 060 hPa Yes Yes 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	900 1 060 hPa Yes Yes 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	900 1 060 hPa Yes Yes Yes No
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

type of electrical connection of the communication interface		Plug co	ontact to Base Unit			
Connections/ Termina	als					
type of electrical co	nnection					
 1 for digital input 	ut signals		Pluggable module - accessory			
 2 for digital input 	ut signals		Plug contact to Base Unit			
type of electrical co	nnection					
 for main energy infeed 			Plug co	ontact to Base Unit		
 for load-side outgoing feeder 			Plug co	ontact to Base Unit		
for supply voltage line-side			-	ontact 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			9 A			
yielded mechanical	performance [hp]					
 for single-phase 						
	0 V rated value		0.33 hp)		
— at 230 V ra	ated value		1 hp			
 for 3-phase AC 	motor		·			
•	3 V rated value		2 hp			
— at 220/230) V rated value		2 hp			
) V rated value		5 hp			
	AC at 60 Hz acc. to CS/	A and UL	480 V			
Certificates/ approval	ls					
						For use in hazard-
General Product Ap	oproval				EMC	ous locations
SP CEM				EAC	RCM	K ATEX
Functional Safety/Safety of Machinery	Ccc Declaration of Conformity	UL UL	ates I	ERC Marine / Shipping	RCM	KEx ATEX
Safety/Safety of		Test Certifica <u>Type Test Certificates/Test Rep</u>	rtific-	ERC Marine / Shipping	RCM	LIPS
Safety/Safety of Machinery	Conformity	Type Test Cer	rtific-	ERIC Marine / Shipping	RCM	LIRS
Safety/Safety of Machinery <u>Type Examination</u> <u>Certificate</u>	Conformity CE EG-Konf.	Type Test Cer	rtific-	ERIC Marine / Shipping	RCM	LIPS
Safety/Safety of Machinery Type Examination Certificate Marine / Shipping	Conformity Cefection EG-Konf. Other Confirmation	Type Test Cer ates/Test Rep Profibus	rtific- port	ERIC Marine / Shipping	RCM	LIS

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