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Data sheet 3RK1304-5KS40-2AA3



ET 200pro DSE HF DOL starter High Feature Mechanical switching Electronic overload protection AC-3, 0.9 kW / 400 V 0.15 A...2.00 A Brake contact 400 V AC 4 DI Han Q4/2 - Han Q8/0

product brand name	SIMATIC
product designation	Motor starters
design of the product	direct starter
product type designation	ET 200pro
General technical data	
product function on-site operation	Yes
insulation voltage rated value	400 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between main and auxiliary circuit	400 V
degree of protection NEMA rating	Type 2, 14
shock resistance	15 g / 11 ms
vibration resistance	2 g
operating frequency maximum	750 1/h
mechanical service life (operating cycles) of the main contacts typical	30 000 000
type of coordination	1
reference code according to IEC 81346-2	Q
Substance Prohibitance (day/month/year)	05/01/2012
SVHC substance name	Lead CAS-No. 7439-92-1 Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1
Net Weight	1.578 kg
product function	
● direct start	Yes
● reverse starting	No
product component motor brake output	Yes
product feature	
● brake control with 230 V AC	No
● brake control with 400 V AC	Yes
● brake control with 24 V DC	No
● brake control with 180 V DC	No
● brake control with 500 V DC	No
type of voltage of the supply voltage for brake control required	AC
supply voltage for brake control required	400 V
product function short circuit protection	Yes

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design of short-circuit protection	fuse
maximum short-circuit current breaking capacity (Icu)	
● at 400 V rated value	100 000 A
Safety related data	
proportion of dangerous failures	
● **with low demand rate according to SN 31920**	50 %
● **with high demand rate according to SN 31920**	75 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
MTTFd	205 a
IEC 61508	
T1 value for proof test interval or service life according to IEC 61508	20 a
Electrical Safety	
touch protection against electrical shock	finger-safe
Main circuit	
number of poles for main current circuit	3
design of the switching contact	electromechanical
adjustable current response value current of the current-dependent overload release	0.15 ... 2 A
type of the motor protection	solid-state
type of voltage	AC
operating voltage rated value	200 ... 400 V
operating frequency 1 rated value	50 Hz
operating frequency 2 rated value	60 Hz
relative positive tolerance of the operating frequency	10 %
relative negative tolerance of the operating frequency	15 %
operating range relative to the operating voltage at AC at 50 Hz	200 ... 440 V
operational current	
● at AC at 400 V rated value	2 A
● at AC-3 at 400 V rated value	2 A
● at AC-3e at 400 V rated value	2 A
operating power	
● at AC-3 at 400 V rated value	900 W
● at AC-3e at 400 V rated value	900 W
operating power for 3-phase motors at 400 V at 50 Hz	70 ... 900 W
Inputs/ Outputs	
product function	
● digital inputs parameterizable	Yes
● digital outputs parameterizable	No
number of digital inputs	4
number of sockets	
● for digital output signals	0
● for digital input signals	4
Supply voltage	
type of voltage of the supply voltage	DC
supply voltage 1 at DC	24 V
supply voltage 1 at DC rated value	
● minimum permissible	20.4 V
● maximum permissible	28.8 V
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	20.4 ... 28.8 V
control supply voltage 1 at DC rated value	20.4 ... 28.8 V
control supply voltage 1 at DC	24 V
control current at DC	
● in standby mode of operation	60 mA
● when switching on	250 mA

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● during operation	250 mA
power loss [W] in auxiliary and control circuit	
● in switching state OFF	
— with bypass circuit	1.6416 W
— without bypass circuit	1.6416 W
● in switching state ON	
— with bypass circuit	3.888 W
— without bypass circuit	3.888 W
Installation/ mounting/ dimensions	
mounting position	vertical, horizontal
fastening method	screw fixing
height	230 mm
width	110 mm
depth	150 mm
Ambient conditions	
installation altitude at height above sea level maximum	3 500 m
ambient temperature	
● during operation	-25 ... +55 °C
● during storage	-40 ... +70 °C
● during transport	-40 ... +70 °C
relative humidity during operation	5 ... 95 %
Communication/ Protocol	
protocol is supported	
● PROFIBUS DP protocol	Yes
● PROFINET protocol	Yes
● PROFINET IO protocol	Yes
● PROFIsafe protocol	No
design of the interface PROFINET protocol	Yes
product function bus communication	Yes
protocol is supported AS-Interface protocol	No
product function	
● supports PROFIenergy measured values	Yes
● supports PROFIenergy shutdown	Yes
address space memory of address range	
● of the inputs	2 byte
● of the outputs	2 byte
type of electrical connection of the communication interface	via backplane bus
Connections/ Terminals	
type of electrical connection	
● for main current circuit	tab terminals
type of electrical connection	
● 1 for digital input signals	M12 socket
● 2 for digital input signals	M12 socket
● 3 for digital input signals	M12 socket
● 4 for digital input signals	M12 socket
type of electrical connection	
● at the manufacturer-specific device interface	optical interface
● for main energy infeed	socket according to ISO23570
● for load-side outgoing feeder	socket according to ISO23570
● for main energy transmission	socket according to ISO23570
● for supply voltage line-side	via backplane bus
● for supply voltage transmission	via backplane bus
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor at 480 V rated value	2 A
yielded mechanical performance [hp]	
● for 3-phase AC motor	
— at 460/480 V rated value	0.75 hp
— at 575/600 V rated value	1 hp

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operating voltage at AC at 60 Hz according to CSA and UL rated value	600 V

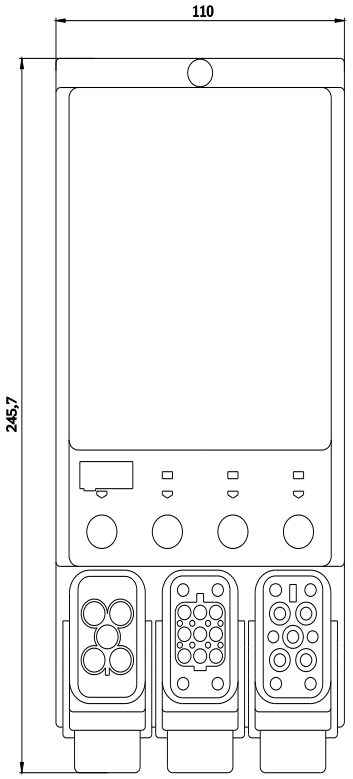
Approvals Certificates

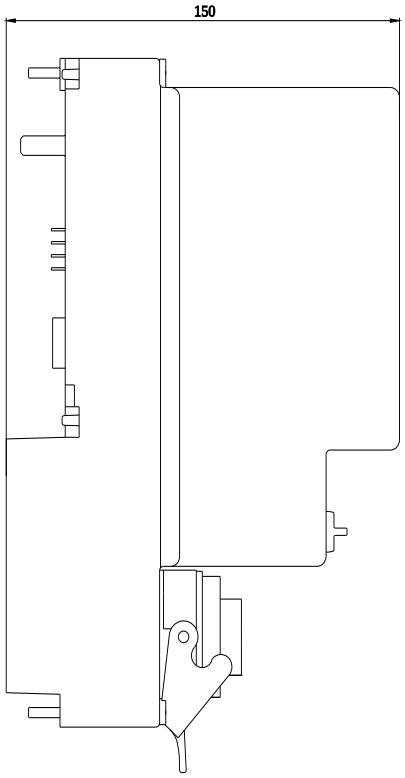
General Product Approval					EMV
CCC	cULus	EAC	CE EG-Konf.	UKCA	KC

EMV	Test Certificates	other		Dangerous goods	Environment
RCM	Type Test Certific-ates/Test Report	Confirmation	产品合格 QC PASS	Transport Information	Environmental Con-firmations

Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information for data generation and storage
https://support.industry.siemens.com/cs/ww/en/view/109995012
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=3RK1304-5KS40-2AA3
Cax online generator
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1304-5KS40-2AA3
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RK1304-5KS40-2AA3
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1304-5KS40-2AA3&lang=en
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