3RK1304-5KS40-5AA3

Data sheet



ET 200pro RSE ST Reversing starter standard Mechanical switching Electronic overload protection AC-3, 0.9 kW / 400 V 0.15 A...2.00 A Brake contact 400 V AC Han Q4/2 - Han Q8/0

Figure similar

product designation design of the product product type designation ET 200pro General technical data trip class CLASS 10 product function on-site operation insulation voltage rated value degree of pollution surge voltage resistance rated value maximum permissible voltage for safe isolation between main and auxiliary circuit protection class IP shock resistance 15g / 11 ms vibration resistance vibration resistance 2g mechanical service life (operating cycles) of the main contacts typical type of assignment reference code acc. to IEC 81346-2 Qu Substance Prohibitance (Date) product function defice start reverse starting reverse starting Product component motor brake output respondence teature brake control with 230 V AC brake control with 24 V DC brake control with 320 V DC brake control with 320 V DC brake control with 34 V DC brake control with 34 V DC brake control with 50 V DC Ves br	product brand name	SIMATIC
product type designation ET 200pro Ceneral technical data trip class CLASS 10 product function on-site operation Yes insulation voltage rated value 400 V degree of pollution 3 surge voltage resistance rated value 400 V maximum permissible voltage for safe isolation between main and auxiliary circuit protection class IP IP65 shock resistance 15g / 11 ms vibration resistance 2g mechanical service life (operating cycles) of the main contacts typical typical type of assignment 1 reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 01.05.2012 00:00:00 product function • direct start No • reverse starting Yes product component motor brake output Yes product feature • brake control with 430 V AC Yes • brake control with 230 V AC No • brake control with 24 V DC No • brake control with 180 V DC • brake control with 180 V DC • brake control with 500 V DC type of voltage of the supply voltage for brake control required 400 V Pes design of short-circuit protection fuse breaking capacity maximum short-circuit current (Icu)	product designation	Motor starters
trip class CLASS 10 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 safe isolation between main and auxiliary circuit protection class IP 1965 shock resistance 2g mechanical service life (operating cycles) of the main contacts typicial type of assignment 1 reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 01.05.2012 00:00:00 product function 0 view service output Yes product component motor brake output Yes product feature 0 brake control with 400 V AC Yes 0 brake control with 200 V AC Yes 0 brake control with 200 V DC No 0 brake control with 500 V DC No 0 vipa of short-circuit protection 10 fuse breaking capacity maximum short-circuit current (Icu) breaking capacity maximum short-circuit current (Icu)	design of the product	reversing starter
trip class product function on-site operation product function on-site operation yes insulation voltage rated value degree of pollution 3 surge voltage resistance rated value 6 kV maximum permissible voltage for safe isolation between main and auxiliary circuit protection class IP IP65 shock resistance 15g / 11 ms vibration resistance 2g mechanical service life (operating cycles) of the main contacts typical type of assignment 1 reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) product function direct start reverse starting yes product component motor brake output Yes product feature • brake control with 230 V AC • brake control with 240 V DC • brake control with 240 V DC • brake control with 180 V DC • brake control with 180 V DC • brake control with 500 V DC Ves product function ves supply voltage of the supply voltage for brake control required supply voltage for brake control required 400 V product function fuse breaking capacity maximum short-circuit current (Icu)	product type designation	ET 200pro
product function on-site operation insulation voltage rated value degree of pollution surge voltage resistance rated value maximum permissible voltage for safe isolation between main and auxiliary circuit protection class IP shock resistance 15g / 11 ms vibration resistance vibration resistance 15g / 11 ms vibration resistance 10	General technical data	
insulation voltage rated value degree of pollution surge voltage resistance rated value maximum permissible voltage for safe isolation between main and auxiliary circuit protection class IP shock resistance vibration resistance vibration resistance protection class IP shock resistance vibration resistance protection class IP shock resistance vibration resistance protection resistance 2g mechanical service life (operating cycles) of the main contacts typical type of assignment reference code acc. to IEC 81346-2 Questance Prohibitance (Date) product function direct start reverse starting yes product component motor brake output yes product feature brake control with 230 V AC brake control with 230 V AC brake control with 400 V AC brake control with 400 V AC brake control with 180 V DC brake control with 500 V DC vere of voltage of the supply voltage for brake control required supply voltage for brake control required product function short circuit protection design of short-circuit protection fuse breaking capacity maximum short-circuit current (Icu)	trip class	CLASS 10
degree of pollution surge voltage resistance rated value maximum permissible voltage for safe isolation between main and auxiliary circuit protection class IP IP65 shock resistance 15g / 11 ms vibration resistance 2g mechanical service life (operating cycles) of the main contacts typical type of assignment 1reference code acc. to IEC 81346-2 Question contacts typical contacts typical vibration resistance 10.05.2012 00:00:00 vibratic prohibitance (Date) 01.05.2012 00:00:00 officet start versus starting ves product component motor brake output ves product component motor brake output ves product component motor brake output ves product component with 230 V AC ves brake control with 230 V AC ves brake control with 400 V AC ves brake control with 400 V DC vbrake control with 500 V DC vbrake control with 500 V DC vbrake control with 500 V DC vpe of voltage of the supply voltage for brake control required supply voltage for brake control required product function short circuit protection design of short-circuit protection fuse	product function on-site operation	Yes
surge voltage resistance rated value maximum permissible voltage for safe isolation between main and auxiliary circuit protection class IP shock resistance 15g / 11 ms vibration resistance 2g mechanical service life (operating cycles) of the main contacts typical type of assignment reference code acc. to IEC 81346-2 Qu Substance Prohibitance (Date) 01.05.2012 00:00:00 product function of inect start reference starting yes product component motor brake output Yes product component motor brake output Yes product feature brake control with 230 V AC brake control with 400 V AC brake control with 480 V DC brake control with 180 V DC brake control with 180 V DC brake control with 500 V DC Vpe of voltage of the supply voltage for brake control required breaking capacity maximum short-circuit current (Icu)	insulation voltage rated value	400 V
maximum permissible voltage for safe isolation between main and auxiliary circuit protection class IP shock resistance vibration resistance pechanical service life (operating cycles) of the main contacts typical type of assignment reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function direct start reverse starting product component motor brake output product feature brake control with 230 V AC brake control with 400 V AC brake control with 40 V DC brake control with 500 V DC type of voltage of the supply voltage for brake control required supply voltage for brake control required product function safe isolation between main and auxiliary circuit current (Icu) design of short-circuit protection fuse	degree of pollution	3
main and auxiliary circuit protection class IP shock resistance vibration resistance general protection gesistance reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function direct start reverse starting product component motor brake output product feature brake control with 230 V AC brake control with 24 V DC brake control with 24 V DC brake control with 180 V DC brake control with 500 V DC type of voltage of the supply voltage for brake control required product function supply voltage for brake control required product function short-circuit protection design of short-circuit protection fuse left 15g / 11 ms 15g / 11 ms 10 000 000 000 00 000 00 000 00 000 00 000 00 000 000 000 00 000	surge voltage resistance rated value	6 kV
shock resistance vibration resistance pechanical service life (operating cycles) of the main contacts typical type of assignment reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function direct start reference starting reverse starting reverse starting reduct component motor brake output reduct component motor brake output reduct edure brake control with 230 V AC revalue control with 24 V DC revalue control with 24 V DC revalue control with 180 V DC revalue control with 500 V DC reduct function required supply voltage for brake control required supply voltage for brake control required reduct function short circuit protection reduct function short-circuit protection reduction function short-circuit current (Icu)	maximum permissible voltage for safe isolation between main and auxiliary circuit	400 V
vibration resistance 2g mechanical service life (operating cycles) of the main contacts typical 30 000 000 type of assignment 1 reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 01.05.2012 00:00:00 product function • direct start No • reverse starting Yes product component motor brake output Yes product feature • brake control with 230 V AC No • b 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 design of short-circuit protection fuse	protection class IP	IP65
mechanical service life (operating cycles) of the main contacts typical type of assignment reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • direct start • reverse starting product component motor brake output product feature • brake control with 230 V AC • brake control with 400 V AC • brake control with 24 V DC • brake control with 180 V DC • brake control with 180 V DC • brake control with 500 V DC type of voltage of the supply voltage for brake control required supply voltage for brake control required product function short circuit protection breaking capacity maximum short-circuit current (Icu)	shock resistance	15g / 11 ms
type of assignment reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • direct start • reverse starting product component motor brake output product feature • brake control with 230 V AC • brake control with 400 V AC • brake control with 24 V DC • brake control with 180 V DC • brake control with 180 V DC • brake control with 500 V DC type of voltage of the supply voltage for brake control required supply voltage for brake control required product function short circuit protection breaking capacity maximum short-circuit current (Icu)	vibration resistance	2g
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • direct start • reverse starting product component motor brake output product feature • brake control with 230 V AC • brake control with 400 V AC • brake control with 24 V DC • brake control with 180 V DC • brake control with 500 V DC type of voltage of the supply voltage for brake control required supply voltage for brake control required product function short circuit protection design of short-circuit protection breaking capacity maximum short-circuit current (Icu)		30 000 000
Substance Prohibitance (Date) product function • direct start • reverse starting product component motor brake output product feature • brake control with 230 V AC • brake control with 400 V AC • brake control with 180 V DC • brake control with 180 V DC • brake control with 500 V DC type of voltage of the supply voltage for brake control required supply voltage for brake control required product function short circuit protection design of short-circuit protection breaking capacity maximum short-circuit current (Icu)	type of assignment	1
product function • direct start • reverse starting product component motor brake output product feature • brake control with 230 V AC • brake control with 400 V AC • brake control with 24 V DC • brake control with 180 V DC • brake control with 500 V DC • brake control with 500 V DC type of voltage of the supply voltage for brake control required supply voltage for brake control required supply voltage for brake control required product function short circuit protection design of short-circuit protection breaking capacity maximum short-circuit current (Icu)	reference code acc. to IEC 81346-2	Q
direct start	Substance Prohibitance (Date)	01.05.2012 00:00:00
reverse starting Product component motor brake output product feature brake control with 230 V AC brake control with 400 V AC brake control with 24 V DC brake control with 180 V DC brake control with 500 V DC brake control with 500 V DC verified supply voltage of the supply voltage for brake control required supply voltage for brake control required product function short circuit protection design of short-circuit protection breaking capacity maximum short-circuit current (Icu) Pyes Supply voltage for brake control required product function short circuit current (Icu)	product function	
product component motor brake output product feature • brake control with 230 V AC • brake control with 400 V AC • brake control with 24 V DC • brake control with 180 V DC • brake control with 500 V DC type of voltage of the supply voltage for brake control required supply voltage for brake control required product function short circuit protection design of short-circuit protection breaking capacity maximum short-circuit current (Icu)	direct start	No
product feature • brake control with 230 V AC • brake control with 400 V AC • brake control with 24 V DC • brake control with 180 V DC • brake control with 500 V DC type of voltage of the supply voltage for brake control required supply voltage for brake control required supply voltage for brake control required product function short circuit protection design of short-circuit protection breaking capacity maximum short-circuit current (Icu)	reverse starting	Yes
brake control with 230 V AC brake control with 400 V AC brake control with 24 V DC brake control with 180 V DC brake control with 500 V DC brake control with 500 V DC type of voltage of the supply voltage for brake control required supply voltage for brake control required supply voltage for brake control required product function short circuit protection design of short-circuit protection fuse breaking capacity maximum short-circuit current (Icu)	product component motor brake output	Yes
 brake control with 400 V AC brake control with 24 V DC brake control with 180 V DC brake control with 500 V DC type of voltage of the supply voltage for brake control required supply voltage for brake control required product function short circuit protection design of short-circuit protection breaking capacity maximum short-circuit current (Icu) 	product feature	
brake control with 24 V DC brake control with 180 V DC brake control with 500 V DC No type of voltage of the supply voltage for brake control required supply voltage for brake control required product function short circuit protection design of short-circuit protection breaking capacity maximum short-circuit current (Icu) No AC Yes	 brake control with 230 V AC 	No
brake control with 180 V DC brake control with 500 V DC No type of voltage of the supply voltage for brake control required supply voltage for brake control required product function short circuit protection design of short-circuit protection breaking capacity maximum short-circuit current (Icu) No No AC required 400 V product function short circuit protection fuse	 brake control with 400 V AC 	Yes
brake control with 500 V DC type of voltage of the supply voltage for brake control required supply voltage for brake control required product function short circuit protection design of short-circuit protection breaking capacity maximum short-circuit current (Icu) No AC Yes	 brake control with 24 V DC 	No
type of voltage of the supply voltage for brake control required supply voltage for brake control required product function short circuit protection design of short-circuit protection breaking capacity maximum short-circuit current (Icu)	 brake control with 180 V DC 	No
required supply voltage for brake control required product function short circuit protection design of short-circuit protection breaking capacity maximum short-circuit current (Icu)	brake control with 500 V DC	No
product function short circuit protection design of short-circuit protection breaking capacity maximum short-circuit current (Icu)		AC
design of short-circuit protection fuse breaking capacity maximum short-circuit current (Icu)	supply voltage for brake control required	400 V
breaking capacity maximum short-circuit current (Icu)	product function short circuit protection	Yes
	design of short-circuit protection	fuse
• at 400 V rated value 100 000 A	breaking capacity maximum short-circuit current (Icu)	
	 at 400 V rated value 	100 000 A

Safety related data	
	1 000 000
B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures	1 000 000
with low demand rate acc. to SN 31920	50 %
• with high demand rate acc. to SN 31920	75 %
failure rate [FIT]	400 FIT
with low demand rate acc. to SN 31920 The value for proof fact interval or coming life acc. to	100 FIT
T1 value for proof test interval or service life acc. to IEC 61508	20 y
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	0.15 2 A
current-dependent overload release	
type of the motor protection	solid-state
type of voltage	AC
operating voltage rated value	200 400 V
operating range relative to the operating voltage at AC at	200 440 V
50 Hz	
operational current	
 at AC at 400 V rated value 	2 A
at AC-3 at 400 V rated value	2 A
operating power at AC-3 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 	No
digital outputs parameterizable	No
number of digital inputs	0
number of sockets	
 for digital output signals 	0
 for digital input signals 	0
Supply voltage	
type of voltage of the supply voltage	DC
supply voltage 1 at DC	24 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
• at DC	24 24 V
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	Yes			
 PROFINET protocol 	Yes				
design of the interface PROFINET protocol	Yes				
product function bus communication	Yes				
protocol is supported AS-Interface protocol	No				
product function					
 supports PROFlenergy measured values 	Yes				
 supports PROFlenergy 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					
operating voltage at AC at 60 Hz acc. to CSA and UL rated value	600 V				
Certificates/ approvals					
Ganaral Braduet Approval		EMC	Declaration of		

General Product Approval

EMC

Declaration of Conformity











Miscellaneous

Declaration of Conformity

Test Certificates

other



Type Test Certificates/Test Report

Confirmation

Further information

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=3RK1304-5KS40-5AA3

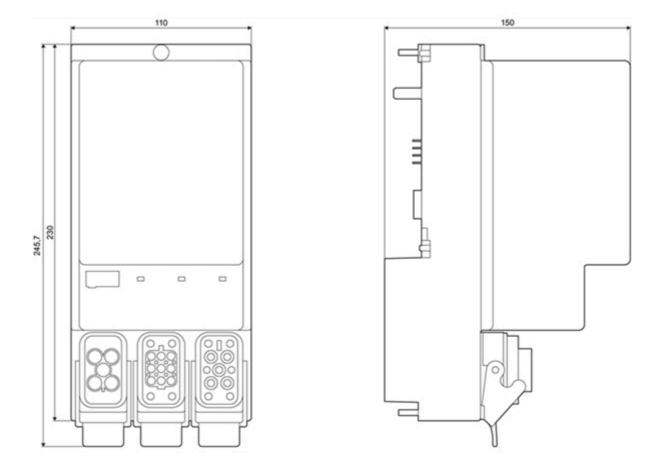
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1304-5KS40-5AA3

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

https://support.industry.siemens.com/cs/ww/en/ps/3RK1304-5KS40-5AA3

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1304-5KS40-5AA3&lang=en



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