



ET 200pro EDSE/DSSE HF electronic direct-on-line starter electronic (soft-) switching full motor protection consisting of: electronic overload protection + thermistor 400 V 3 AC/0.9 kW 0.15 A...2.00 A without brake contact 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
shock resistance	15 g / 11 ms
vibration resistance	2 g
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	1.956 kg
product function	
• direct start	Yes
• reverse starting	No
product component motor brake output	No
product feature	
• brake control with 230 V AC	No
• brake control with 400 V AC	No
• brake control with 24 V DC	No
• brake control with 180 V DC	No
• brake control with 500 V DC	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	100 000 A
Safety related data	
proportion of dangerous failures	

<ul style="list-style-type: none"> • with low demand rate according to SN 31920 	50 %
<ul style="list-style-type: none"> • 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
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	solid-state / thyristor / 2 phases
adjustable current response value current of the current-dependent overload release	0.15 ... 2 A
type of the motor protection	full motor protection
type of voltage	AC
operating voltage rated value	200 ... 400 V
operating range relative to the operating voltage at AC at 50 Hz	200 ... 440 V
operational current	
<ul style="list-style-type: none"> • at AC at 400 V rated value 	2 A
<ul style="list-style-type: none"> • at AC-3 at 400 V rated value 	2 A
operating power	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • digital inputs parameterizable 	Yes
<ul style="list-style-type: none"> • digital outputs parameterizable 	No
number of digital inputs	4
number of sockets	
<ul style="list-style-type: none"> • for digital output signals 	0
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • minimum permissible 	20.4 V
<ul style="list-style-type: none"> • 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
power loss [W] in auxiliary and control circuit	
<ul style="list-style-type: none"> • in switching state OFF <ul style="list-style-type: none"> — with bypass circuit 	1.656 W
<ul style="list-style-type: none"> — without bypass circuit 	1.656 W
<ul style="list-style-type: none"> • in switching state ON <ul style="list-style-type: none"> — with bypass circuit 	1.944 W
<ul style="list-style-type: none"> — without bypass circuit 	1.944 W
Installation/ mounting/ dimensions	
mounting position	vertical, horizontal
fastening method	screw fixing
height	230 mm
width	110 mm
depth	160 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
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

operating voltage at AC at 60 Hz according to CSA and UL rated value	480 V
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Approvals Certificates

General Product Approval	EMV
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Test Certificates	other	Environment
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[Type Test Certificates/Test Report](#)

[Confirmation](#)



[Environmental Confirmations](#)

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=3RK1304-5KS70-2AA0>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1304-5KS70-2AA0>

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

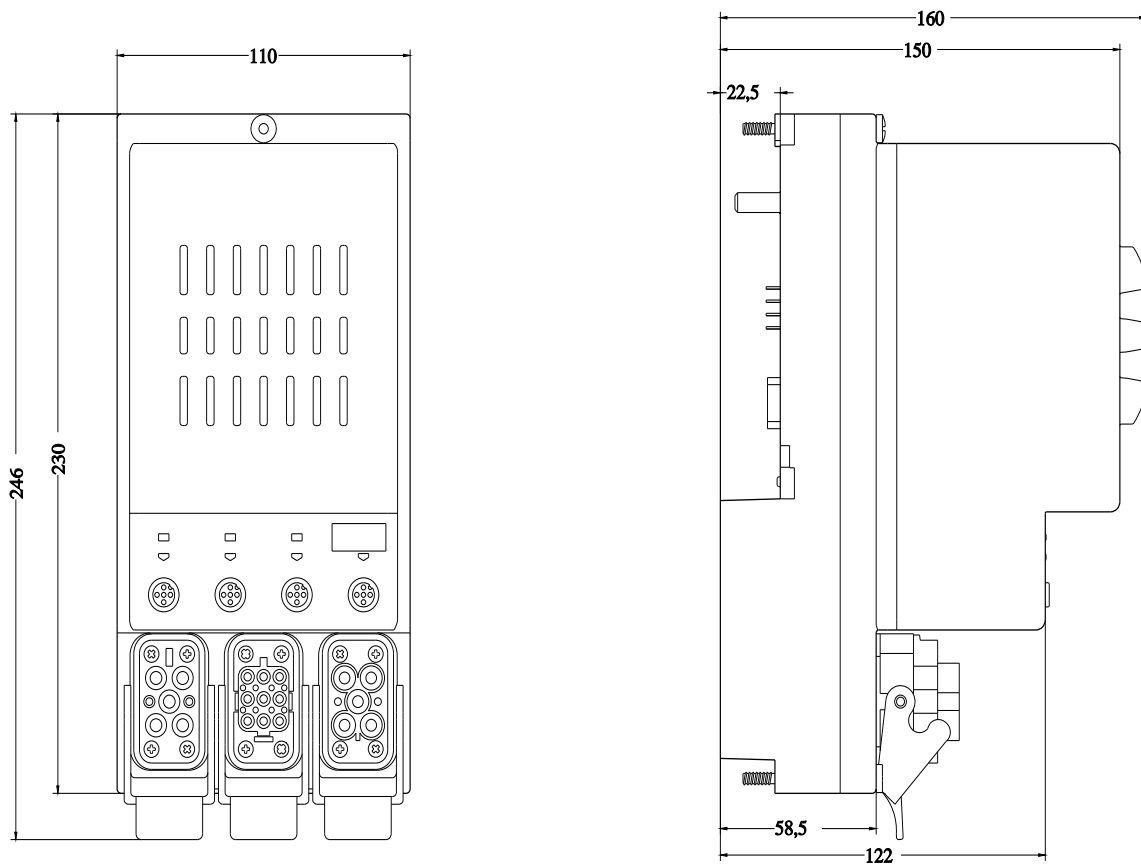
<https://support.industry.siemens.com/cs/ww/en/ps/3RK1304-5KS70-2AA0>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1304-5KS70-2AA0&lang=en

Characteristic curves

https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>



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