## **SIEMENS**

Data sheet 3RW5072-6AB14

SIRIUS



SIRIUS soft starter 200-480 V 210 A, 110-250 V AC Screw terminals Analog output





product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW50
manufacturer's article number	
<ul> <li>of standard HMI module usable</li> </ul>	3RW5980-0HS01
<ul> <li>of high feature HMI module usable</li> </ul>	3RW5980-0HF00
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00
<ul> <li>of communication module Modbus TCP usable</li> </ul>	3RW5980-0CT00
<ul> <li>of communication module Modbus RTU usable</li> </ul>	3RW5980-0CR00
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2440-7MN32-0AA0; Type of assignment 1, Iq = 65 kA
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2440-7MN32-0AA0; Type of assignment 1, Iq = 65 kA
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3354-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE1 230-2; Type of coordination 2, Iq = 65 kA
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE3 333; Type of coordination 2, Iq = 65 kA
<ul> <li>of line contactor usable up to 480 V</li> </ul>	<u>3RT1064</u>
<ul> <li>of line contactor usable up to 690 V</li> </ul>	<u>3RT1064</u>
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 20 s
ramp-down time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
certificate of suitability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component	
HMI-High Feature	No
• is supported HMI-Standard	Yes
is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	2
buffering time in the event of power failure	

for main current circuit	100 ms
for control circuit	100 ms
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	5, acc. to fee 60547-4-2
blocking voltage of the thyristor maximum	1 600 V
	1
service factor	
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	600 V
between main and auxiliary circuit	
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
utilization category according to IEC 60947-4-2	AC-53a
reference code according to IEC 81346-2	Q 20/22/2040
Substance Prohibitance (Date)  SVHC substance name	09/23/2019 Lead - 7439-92-1
SYNC Substance name	Lead - 743-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) covering any of its individual anti- and syn-isomers or any combination thereof - Dicyclohexyl phthalate (DCHP) - 84-61-7 Dodecamethylcyclohexasiloxane (D6) - 540-97-6
product function	
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
• Soft Torque	Yes
adjustable current limitation	Yes
pump ramp down	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Electronic motor overload protection
evaluation of thermistor motor protection	No
• auto-RESET	Yes
manual RESET	Yes
remote reset	Yes; By turning off the control supply voltage
communication function	Yes
<ul> <li>operating measured value display</li> </ul>	Yes; Only in conjunction with special accessories
error logbook	Yes; Only in conjunction with special accessories
via software parameterizable	No
via software configurable	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication module
voltage ramp	Yes
• torque control	No
analog output	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
Power Electronics	, , , , , , , , , , , , , , , , , , , ,
operational current	
at 40 °C rated value	210 A
at 50 °C rated value	186 A
at 60 °C rated value	170 A
operating voltage	
• rated value	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
operating power for 3-phase motors	
at 230 V at 40 °C rated value	55 kW
• at 400 V at 40 °C rated value	110 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
at rotary coding switch on switch position 1	90 A

<ul> <li>at rotary coding switch on switch position 2</li> </ul>	98 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	106 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	114 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	122 A
at rotary coding switch on switch position 6	130 A
at rotary coding switch on switch position 7	138 A
at rotary coding switch on switch position 8	146 A
at rotary coding switch on switch position 9	154 A
at rotary coding switch on switch position 10	162 A
, c	170 A
at rotary coding switch on switch position 11	
at rotary coding switch on switch position 12	178 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	186 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	194 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	202 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	210 A
• minimum	90 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
<ul> <li>at 40 °C after startup</li> </ul>	16 W
<ul> <li>at 50 °C after startup</li> </ul>	13 W
at 60 °C after startup	11 W
power loss [W] at AC at current limitation 350 %	
<ul> <li>at 40 °C during startup</li> </ul>	2 237 W
at 50 °C during startup	1 867 W
<ul> <li>at 60 °C during startup</li> </ul>	1 637 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz	110 250 V
■ at 50 HZ	
• at 60 Hz	110 250 V
at 60 Hz  relative negative tolerance of the control supply voltage at	110 250 V
at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at	110 250 V -15 %
at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at	110 250 V -15 % 10 %
at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at	110 250 V -15 % 10 % -15 %
• at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz	110 250 V -15 % 10 % -15 %
• at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage	110 250 V -15 % 10 % -15 % 10 %
at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage	110 250 V -15 % 10 % -15 % 10 % 50 60 Hz -10 %
• at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency	110 250 V -15 %  10 %  -15 %  10 %  50 60 Hz -10 %  10 %
at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply current in standby mode rated value	110 250 V -15 %  10 % -15 %  10 %  50 60 Hz -10 %  10 %  30 mA
e at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply current in standby mode rated value  holding current in bypass operation rated value	110 250 V -15 %  10 %  -15 %  10 %  50 60 Hz -10 %  10 %  30 mA 105 mA
e at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply current in standby mode rated value  holding current in bypass operation rated value  inrush current peak at application of control supply voltage	110 250 V -15 %  10 %  -15 %  10 %  50 60 Hz -10 %  10 %  30 mA  105 mA  2.2 A
e at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply current in standby mode rated value  holding current in bypass operation rated value  inrush current by closing the bypass contacts maximum  inrush current peak at application of control supply voltage maximum  duration of inrush current peak at application of control supply	110 250 V -15 %  10 % -15 %  10 %  50 60 Hz -10 %  10 %  30 mA  105 mA  2.2 A  12.2 A
e at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply current in standby mode rated value  holding current in bypass operation rated value  inrush current by closing the bypass contacts maximum  inrush current peak at application of control supply voltage maximum  duration of inrush current peak at application of control supply voltage	110 250 V -15 %  10 % -15 %  10 %  50 60 Hz -10 %  10 %  30 mA 105 mA 2.2 A 12.2 A 2.2 ms  Varistor  4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of
e at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply current in standby mode rated value  holding current in bypass operation rated value  inrush current by closing the bypass contacts maximum  inrush current peak at application of control supply voltage maximum  duration of inrush current peak at application of control supply voltage  design of the overvoltage protection  design of short-circuit protection for control circuit	110 250 V -15 %  10 % -15 %  10 %  50 60 Hz -10 %  10 %  30 mA  105 mA  2.2 A  12.2 A  2.2 ms  Varistor  4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit
e at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply current in standby mode rated value  holding current in bypass operation rated value  inrush current by closing the bypass contacts maximum  inrush current peak at application of control supply voltage maximum  duration of inrush current peak at application of control supply voltage  design of the overvoltage protection  design of short-circuit protection for control circuit	110 250 V -15 %  10 %  -15 %  10 %  50 60 Hz -10 %  10 %  30 mA  105 mA  2.2 A  12.2 A  2.2 ms  Varistor  4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu=600 A), C6 miniature circuit breaker (Icu=300 A); Is not part of scope of supply
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit	110 250 V -15 %  10 % -15 %  10 %  50 60 Hz -10 %  10 %  30 mA 105 mA 2.2 A 12.2 A  2.2 ms  Varistor  4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu=600 A), C6 miniature circuit breaker (Icu=300 A); Is not part of scope of supply
e at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply current in standby mode rated value  holding current in bypass operation rated value  inrush current by closing the bypass contacts maximum  inrush current peak at application of control supply voltage maximum  duration of inrush current peak at application of control supply voltage  design of the overvoltage protection  design of short-circuit protection for control circuit  Inputs/ Outputs  number of digital inputs  number of digital outputs	110 250 V -15 %  10 % -15 %  10 %  50 60 Hz -10 %  10 %  30 mA 105 mA 2.2 A 12.2 A  12.2 A  2.2 ms  Varistor  4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu=600 A), C6 miniature circuit breaker (Icu=300 A); Is not part of scope of supply
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit  Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable	110 250 V -15 %  10 % -15 %  10 %  50 60 Hz -10 %  10 %  30 mA  105 mA  2.2 A  12.2 A  2.2 ms  Varistor  4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu=600 A), C6 miniature circuit breaker (Icu=300 A); Is not part of scope of supply
e at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply current in standby mode rated value  holding current in bypass operation rated value  inrush current by closing the bypass contacts maximum  inrush current peak at application of control supply voltage maximum  duration of inrush current peak at application of control supply voltage  design of the overvoltage protection  design of short-circuit protection for control circuit  Inputs/ Outputs  number of digital inputs  number of digital outputs  • not parameterizable  digital output version	110 250 V -15 %  10 % -15 %  10 %  50 60 Hz -10 %  10 %  30 mA 105 mA 2.2 A 12.2 A  2.2 ms  Varistor  4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
e at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply current in standby mode rated value  holding current in bypass operation rated value  inrush current by closing the bypass contacts maximum  inrush current peak at application of control supply voltage maximum  duration of inrush current peak at application of control supply voltage  design of the overvoltage protection  design of short-circuit protection for control circuit  Inputs/ Outputs  number of digital inputs  number of digital outputs  • not parameterizable  digital output version  number of analog outputs	110 250 V -15 %  10 % -15 %  10 %  50 60 Hz -10 %  10 %  30 mA  105 mA  2.2 A  12.2 A  2.2 ms  Varistor  4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu=600 A), C6 miniature circuit breaker (Icu=300 A); Is not part of scope of supply
relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply current in standby mode rated value  holding current in bypass operation rated value  inrush current by closing the bypass contacts maximum  inrush current peak at application of control supply voltage maximum  duration of inrush current peak at application of control supply voltage  design of the overvoltage protection  design of short-circuit protection for control circuit  Inputs/ Outputs  number of digital outputs  • not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs	110 250 V -15 %  10 % -15 %  10 %  50 60 Hz -10 %  10 %  30 mA  105 mA  2.2 A  12.2 A  2.2 ms  Varistor  4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1
e at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply current in standby mode rated value  holding current in bypass operation rated value  inrush current by closing the bypass contacts maximum  inrush current peak at application of control supply voltage maximum  duration of inrush current peak at application of control supply voltage  design of the overvoltage protection  design of short-circuit protection for control circuit  Inputs/ Outputs  number of digital inputs  number of digital outputs  • not parameterizable  digital output version  number of analog outputs	110 250 V -15 %  10 % -15 %  10 %  50 60 Hz -10 %  10 %  30 mA 105 mA 2.2 A 12.2 A  2.2 ms  Varistor  4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply

nstallation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
height	230 mm
width	160 mm
depth	282 mm
required spacing with side-by-side mounting	
• forwards	10 mm
backwards	0 mm
• upwards	100 mm
• downwards	75 mm
at the side	5 mm
weight without packaging	7.3 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	busbar connection
• for control circuit	screw-type terminals
width of connection bar maximum	35 mm; with connection cover 3RT1966-4EA1 maximum length 45 mm
type of connectable conductor cross-sections for main contacts for box terminal	
<ul> <li>using the front clamping point solid</li> </ul>	95 300 mm²
<ul> <li>using the front clamping point finely stranded with core end processing</li> </ul>	70 240 mm²
using the front clamping point finely stranded without core end processing	70 240 mm²
using the front clamping point stranded	95 300 mm²
using the back clamping point solid	120 240 mm²
r box terminal using the back clamping point	250 500 kcmil
using both clamping points solid	min. 2x 70 mm², max. 2x 240 mm²
using both clamping points finely stranded with core end processing	min. 2x 50 mm², max. 2x 185 mm²
using both clamping points finely stranded without core end processing	min. 2x 50 mm², max. 2x 185 mm²
using both clamping points stranded  A using the book clamping point finely stranded with core  The book clamping point finely stranded with core  The book clamping points stranded with core clamping points stranded with clamping points stranded with clamping points stranded with clamping points stranded	min. 2x 70 mm², max. 2x 240 mm²
using the back clamping point finely stranded with core end processing      using the back clamping point finely stranded without core	120 185 mm <sup>2</sup>
using the back clamping point finely stranded without core end processing      value the back clamping point stranded.	120 185 mm <sup>2</sup>
using the back clamping point stranded  tune of connectable conductor group positions	120 240 mm²
type of connectable conductor cross-sections	2/0 500 komil
for AWG cables for main current circuit solid     for DIN cable lug for main contacts stranded.	2/0 500 kcmil 50 240 mm²
for DIN cable lug for main contacts stranded     for DIN cable lug for main contacts finely stranded.	50 240 mm² 70 240 mm²
for DIN cable lug for main contacts finely stranded  type of connectable conductor cross sections	70 240 IIIII
type of connectable conductor cross-sections  • for control circuit solid	1v (0.5 4.0 mm²) 2v (0.5 2.5 mm²)
for control circuit solid     for control circuit finely stranded with core end processing	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
for Control circuit linely stranded with core end processing     for AWG cables for control circuit solid	1x (20 12), 2x (20 14)
wire length	1A (20 12), 2A (20 17)
between soft starter and motor maximum	800 m
at the digital inputs at AC maximum	1 000 m
tightening torque	
for main contacts with screw-type terminals	14 24 N·m
for auxiliary and control contacts with screw-type	0.8 1.2 N·m
terminals	
tightening torque [lbf·in]	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	124 210 lbf·in
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	7 10.3 lbf-in
ambient conditions	
installation altitude at height above sea level maximum	5 000 m; derating as of 1000 m, see Manual
ambient temperature	
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C

environmental category  • during operation according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  • during transport according to IEC 60721  Silemens Eco Profile (SEP)  Environmental footprint  Silemens Eco Profile (SEP)  Silemens Eco Frofile (SEP)  Silemens Eco Frofile (SEP)  Silemens Eco Frofile  • PROFINET standard  • PROFINET stand		
(sand must not get into the devices), 3M6  • during storage according to IEC 60721  • during transport according to IEC 60721  • during transport according to IEC 60721  Environmental Gootprint  Siemens Eco Profile (SEP)  Siemens Eco Tech  EMC emitted interference  communication module is supported  • PROFIRIENT standard  • PROFIRIENT standard  • PROFIRIENT standard  • PROFIRIUS  PROFIRIUS  Ves  • Modobus TCP  • Modobus TCP  • Modobus TCP  • Jess House  — usable for High Faults up to 575/600 V according to UL  • of the fuse  — usable for High Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — operating power (high for 3-phase motors  • at 200/208 V at 50 °C rated value  • at 480/480 V at 50 °C rated value  • at 480/480 V at 50 °C rated value  • at 480/480 V at 50 °C rated value  • at 480/480 V at 50 °C rated value  • at 480/480 V at 50 °C rated value  • at 480/480 V at 50 °C rated value  • at 480/480 V at 50 °C rated value  • at 480/480 V at 50 °C rated value  • at 480/480 V at 50 °C rated value  • at 480/480 V at 50 °C rated value  • at 480/480 V at 50 °C rated value  • at 480/480 V at 50 °C rated value  • at 480/480 V at 50 °C rated value  • at 480/480 V at 50 °C rated value  • at 480/480 V at 50 °C rated value  • at 480/480 V at 50 °C rated value  • at 480/480 V at 50 °C rated value  • at 480/480 V at 50 °C rated value  • at 480/480 V at 50 °C rated value  • at 50 hp  Flore With representation on the front according to IEC 60529  ATEX  Safety Integrity Level (SIL) according to IEC 61508  relating to ATEX  Are the devices), IMA  ARE (SILP On the devices), IMA  2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m.  3 a IEC 61508 relating to ATEX  Yes  Yes  Yes  **CECEX  **Yes  **CECEX  **Yes  **CECEX  **Yes  **CECEX  **Yes  **CECEX  **Yes  **CECEX  **Yes  **CECEX  **Tex On Set Imated to Set Imated not set on the food to se	environmental category	
Inside the devices), 1M4	<ul> <li>during operation according to IEC 60721</li> </ul>	
Environmental footprint  Siemens Eco Profile (SEP)  Siemens EcoTech  EMC emitted interference  acc. to IEC 60947-4-2: Class A  Communication Protocol  communication module is supported  PROFINET standard  PROFINET standard  PROFINET standard  PROFINET standard  PROFINED  ULCSA ratings  manufacturer's article number  of circuit breaker  usable for High Faults at 460/480 V according to UL  of the fuse  usable for Standard Faults up to 575/600 V according to UL  uL  usable for High Faults up to 575/600 V according to UL  operating power [Inj] for 3-phase motors  ot 200/208 V at 50 "C rated value  ot 220/208 V at 50 "C rated value  ot 480/480 V at 50 "C rated value  ot 50 hp  stelectrical Safety  protection class IP on the front according to IEC 60529  IPO0: IP20 with cover  ID00:	during storage according to IEC 60721	
Siemens Eco Profile (SEP)  EMC emitted interference  acc. to IEC 60947-4-2: Class A  Communication module is supported  PROFINET standard  PROFINE	<ul> <li>during transport according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference  communication Protocol  communication module is supported  PROFINET standard  Pres  EtherNet/IP  Modbus RTU  Pres  Modbus RTU  Pres  Modbus TCP  Pres  Modbus TCR  Pres  Modbus TCR  Modbus TCR  Modbus TCR  Modbus TCR  Modbus TCR  Pres  Modbus TcR  Modbus TcR  Modbus TcR  Modbus TcR  Modbus TcR  Modbus TcR  Pres  Modbus TcR  Modbus TcR  Modbus TcR  Modbus TcR  Modbus TcR  Mod	Environmental footprint	
Communication / Protocol  communication module is supported  PROFINET standard PROFINET standard Profile Standard Stan	Siemens Eco Profile (SEP)	Siemens EcoTech
communication module is supported  PROFINET standard  Yes  EtherNet/IP  Modbus RTU  Modbus RTU  PROFIBUS  PROFIBUS  Ves  PROFIBUS  Wes  PROFIBUS  Wes  Of circuit breaker  - usable for High Faults at 460/480 V according to UL  of the fuse  - usable for Standard Faults up to 575/600 V according to UL  - usable for High Faults up to 575/600 V according to UL  - usable for High Faults up to 575/600 V according to UL  - usable for High Faults up to 575/600 V according to UL  - usable for High Faults up to 575/600 V according to UL  - usable for High Faults up to 575/600 V according to UL  - usable for High Faults up to 575/600 V according to UL  - usable for High Faults up to 575/600 V according to UL  - usable for High Faults up to 575/600 V according to UL  - usable for High Faults up to 575/600 V according to UL  - usable for High Faults up to 575/600 V according to UL  - usable for High Faults up to 575/600 V according to UL  - usable for High Faults up to 575/600 V according to UL  - usable for High Faults up to 575/600 V according to UL  - usable for High Faults up to 575/600 V according to UL  - usable for High Faults up to 575/600 V according to UL  - usable for High Faults up to 575/600 V according to UL  - usable for High Faults up to ATEX  PPDay with ligh demand rate according to IEC 61508 relating to ATEX  PPDay with low demand rate according to IEC 61508 relating to ATEX  PPDay with low demand rate according to IEC 61508 relating to ATEX  PPDay with low demand rate according to IEC 61508 relating to ATEX  PPDay with low demand rate according to IEC 61508 relating to ATEX  PPDay with low demand rate according to IEC 61508 relating to ATEX  PPDay with low demand rate according to IEC 61508 relating to ATEX  PPDay with low demand rate according to IEC 61508 relating to ATEX  PPDay with low demand rate according to IEC 61508 relating to ATEX  PPDay with low demand rate according to IEC 61508 relating to ATEX  PPDay with low demand rate according to IEC 61508 relating to ATEX  PPDay with low demand rate acco	EMC emitted interference	acc. to IEC 60947-4-2: Class A
PROFINET standard EtherNet/IP  Modbus RTU Modbus TCP PROFIBUS  PROFIBUS  PROFIBUS  Wes  **UL/CSA ratings  manufacturer's article number of circuit breaker — usable for High Faults at 460/480 V according to UL of the fuse — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL  Operating power [hp] for 3-phase motors at 200/208 V at 50 °C rated value at 200/208 V at 50 °C rated value at 240/209 V at 50 °C rated value at 460/480 V at 50 °C rated value at 460/480 V at 50 °C rated value felectrical Safety  protection class IP on the front according to IEC 60529  IP00: IP20 with cover  **Tex  **Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  **PPEN With high demand rate according to IEC 61508 relating to ATEX  **PPEN With high demand rate according to IEC 61508 relating to ATEX  **Profit of Sultability ATEX  **ATEX  **POST OF TAX Sultability **ATEX  **PEN SULTABILITY **PEN S	Communication/ Protocol	
EtherNet/IP  Modbus RTU  Modbus RTU  Modbus RTU  Modbus RTU  PPROFIBUS  Wes  PROFIBUS  Manufacturer's article number  of circuit breaker  — usable for High Faults at 460/480 V according to UL.  of the fuse  — usable for High Faults up to 575/600 V  according to UL.  — usable for High Faults up to 575/600 V according to UL.  — usable for High Faults up to 575/600 V according to UL.  — usable for High Faults up to 575/600 V according to UL.  — usable for Fligh Faults up to 575/600 V according to UL.  — usable for Fligh Faults up to 575/600 V according to UL.  Operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value  • at 220/230 V at 50 °C rated value  • at 460/480 V at 50 °C rated value  • at 460/480 V at 50 °C rated value  150 hp  Electrical Safety  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  touch protection on the front according to IEC 61508 relating to ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFDays with low demand rate according to IEC 61508 relating to ATEX  PFDays with low demand rate according to IEC 61508 relating to ATEX  Type: Class L, max. 700 A; Iq = 10 kA  Type: Class L, max. 700 A; Iq = 100 kA  In protection class IP on the front according to IEC 60529  In protection class IP on the front according to IEC 60529  In protection class IP on the front according to IEC 61508 relating to ATEX  PFDay with low demand rate according to IEC 61508 relating to ATEX  PFDays with low demand rate according to IEC 61508 relating to ATEX  Type: Class L, max. 700 A; Iq = 10 kA  Type: Class L, max. 700 A; Iq = 10 kA  In protection class IP on the front according to IEC 61508  In protection class IP on the front according to IEC 61508  In protection class IP on the front according to IEC 61508  In protection class IP on the front according to IEC 61508  In protection class IP on the front according to IEC 61508  In protection class IP on the front according to IEC 61508  In protection class IP o	communication module is supported	
Modbus RTU  Nodbus TCP  PROFIBUS  Wes  Yes  Ves  UL/CSA ratings  manufacturer's article number  of circuit breaker  — usable for High Faults at 460/480 V according to UL  of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  operating power [hp] for 3-phase motors  o at 220/230 V at 50 °C rated value  o at 460/480 V at 50 °C rated value  o at 460/480 V at 50 °C rated value  of the fuse  protection class IP on the front according to IEC 60529  fuser-safe, for vertical contact from the front with cover  touch protection on the front according to IEC 61508 relating to ATEX  PFDay with low demand rate according to IEC 61508  relating to ATEX  PFDay with tolerance according to IEC 61508 relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  Province of the fuser f	<ul> <li>PROFINET standard</li> </ul>	Yes
Modbus TCP PROFIBUS  Ves  Ves  Ves  UL/CSA ratings  manufacturer's article number of circuit breaker — usable for High Faults at 460/480 V according to UL of the fuse — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL Operating power [hp] for 3-phase motors of at 200/208 V at 50 °C rated value of at 220/230 V at 50 °C rated value of at 460/480 V at 50 °C rated value of the first of the front according to IEC 60529 IEcetrical Safety protection class IP on the front according to IEC 60529 IFO0: IP20 with cover  Touch protection on the front according to IEC 60529 IFO0: IP20 with cover  Touch protection on the front according to IEC 60529 IFO0: IP20 with cover  Touch protection on the front according to IEC 60529 IFO0: IP20 with cover  Touch protection on the front according to IEC 60529 IFO0: IP20 with cover  Touch protection on the front according to IEC 60529 IFO0: IP20 with cover  Touch protection on the front according to IEC 60529 IFO0: IP20 with cover  Touch protection on the front according to IEC 60529 IFO0: IP20 with cover  Touch protection on the front according to IEC 60529 IFO0: IP20 with cover  Touch protection on the front according to IEC 60529 IFO0: IP20 with cover  Touch protection on the front according to IEC 60529 IFO0: IP20 with cover  Touch protection on the front according to IEC 61508 relating to ATEX  PFDay with low demand rate according to IEC 61508 relating to ATEX  Propage with low demand rate according to IEC 61508 relating to ATEX  To value for proof test interval or service life according to IEC 61508 relating to ATEX  ArEX  • IECEX  Yes	EtherNet/IP	Yes
PROFIBUS  Wanufacturer's article number  of circuit breaker  — usable for High Faults at 460/480 V according to UL  of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  operating power [hp] for 3-phase motors  o at 200/208 V at 50 °C rated value  ot 460/480 V at 50 °C rated value  ot 460/480 V at 50 °C rated value  Electrical Safety  protection class IP on the front according to IEC 60529  finger-safe, for vertical contact from the front with cover  ATEX  Safety Integrity Level (SiL) according to IEC 61508 relating to ATEX  PPDay with low demand rate according to IEC 61508 relating to ATEX  PPDay with low demand rate according to IEC 61508 relating to ATEX  17 value for proof test interval or service life according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to IEC 61508 relating to ATEX  Yes  o IEC EX  Yes	Modbus RTU	Yes
manufacturer's article number  • of circuit breaker — usable for High Faults at 460/480 V according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL  Operating power (hp] for 3-phase motors • at 200/208 V at 50 °C rated value • at 2200/230 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 460/480 V at 50 °C rated value  Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover  ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFDay with low demand rate according to IEC 61508 relating to ATEX  PFDay with low demand rate according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to IEC 61508 relating to ATEX  Yes • IECEX  • IECEX  Ves	Modbus TCP	Yes
manufacturer's article number  of circuit breaker — usable for High Faults at 460/480 V according to UL  of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL  operating power [hp] for 3-phase motors  otat 200/208 V at 50 °C rated value  otat 220/230 V at 50 °C rated value  otat 460/480 V at 50 °C rated value  telectrical Safety protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  finger-safe, for vertical contact from the front with cover  ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFID with high demand rate according to IEC 61508 relating to ATEX  PFDayg with low demand rate according to IEC 61508 relating to ATEX  Prover the form of	• PROFIBUS	Yes
of circuit breaker         — usable for High Faults at 460/480 V according to UL     of the fuse         — usable for Standard Faults up to 575/600 V         according to UL         — usable for High Faults up to 575/600 V         according to UL         — usable for High Faults up to 575/600 V according to UL         — usable for High Faults up to 575/600 V according to UL         — usable for High Faults up to 575/600 V according to UL          operating power [hp] for 3-phase motors         • at 200/208 V at 50 °C rated value         • at 220/230 V at 50 °C rated value         • at 460/480 V at 50 °C rated value         • at 460/480 V at 50 °C rated value         • at 260/208 IP On the front according to IEC 60529         protection class IP on the front according to IEC 60529         finger-safe, for vertical contact from the front with cover  ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508         relating to ATEX  PFDavg with low demand rate according to IEC 61508         relating to ATEX  11 value for proof test interval or service life according to IEC 61508 relating to ATEX  12 value for proof test interval or service life according to IEC 61508 relating to ATEX  13 value for proof test interval or service life according to IEC 61508 relating to ATEX  14 value for proof test interval or service life according to IEC 61508 relating to ATEX  15 value for proof test interval or service life according to IEC 61508 relating to ATEX  16 value for proof test interval or service life according to IEC 61508 relating to ATEX  17 value for proof test interval or service life according to IEC 61508 relating to ATEX  18 value for proof test interval or service life according to IEC 61508 relating to ATEX  19 value for proof test interval or service life according to IEC 61508 relating to ATEX  19 value for proof test interval or service life according to IEC 61508 relating to ATEX	UL/CSA ratings	
- usable for High Faults at 460/480 V according to UL  of the fuse  - usable for Standard Faults up to 575/600 V according to UL  - usable for High Faults up to 575/600 V according to UL  operating power [hp] for 3-phase motors  ot 2200/208 V at 50 °C rated value  ot 2200/208 V at 50 °C rated value  ot 460/480 V at 50 °C rated value  ot 460/480 V at 50 °C rated value  ot 460/480 V at 50 °C rated value  in the front according to IEC 60529  touch protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  TYpe: Class L, max. 700 A; Iq = 100 kA  Type: Class L, max. 700 A; Iq = 100 kA  IPpe:	manufacturer's article number	
of the fuse          — usable for Standard Faults up to 575/600 V according to UL          — usable for High Faults up to 575/600 V according to UL          — usable for High Faults up to 575/600 V according to UL          Operating power [hp] for 3-phase motors          • at 200/208 V at 50 °C rated value         • at 220/230 V at 50 °C rated value         • at 460/480 V at 50 °C rated value         • at 460/480 V at 50 °C rated value         • at 60/480 V at 50 °C rated value         • at 60/480 V at 50 °C rated value         • at 60/480 V at 50 °C rated value         • at 60/480 V at 50 °C rated value         • at 60/480 V at 50 °C rated value         • at 60/480 V at 50 °C rated value          • at 60/480 V at 50 °C rated value         • at 60/480 V at 50 °C rated value         • at 60/480 V at 50 °C rated value          • at 60/480 V at 50 °C rated value	of circuit breaker	
- usable for Standard Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL  operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value • at 220/230 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 460/480 V at 50 °C rated value    Selectrical Safety protection class IP on the front according to IEC 60529   IP00; IP20 with cover	<ul> <li>usable for High Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3VA54, max. 600 A; lq max = 65 kA
according to UL  — usable for High Faults up to 575/600 V according to UL  operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value • at 220/230 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 460/480 V at 50 °C rated value  • at 460/480 V at 50 °C rated value  • at 460/480 V at 50 °C rated value  150 hp  Electrical Safety protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  ATY alue for proof test interval or service life according to IEC 61508 relating to ATEX  certificate of suitability  • ATEX  • IECEX  Yes  Yes	of the fuse	
operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value 60 hp  • at 220/230 V at 50 °C rated value 150 hp  Electrical Safety protection class IP on the front according to IEC 60529 IP00; IP20 with cover touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover  ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508 relating to ATEX  PFDay with low demand rate according to IEC 61508 relating to ATEX  PFDay with low demand rate according to IEC 61508 relating to ATEX  Ardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to IEC 61508 relating to ATEX  certificate of suitability  • ATEX  • IECEX  Ves	·	Type: Class L, max. 700 A; Iq = 10 kA
at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value  telectrical Safety  protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529  touch protection on the front according to IEC 60529  ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to IEC 61508 relating to ATEX  certificate of suitability  ATEX  FED  Yes  60 hp  60 hp  60 hp  60 hp  60 hp  60 hp  61 hp  62 hp  63 hp  64 hp  65 hp  66 hp  66 hp  67 hp  68 hp  69 hp  69 hp  60 hp  69 hp  60		Type: Class L, max. 700 A; Iq = 100 kA
at 220/230 V at 50 °C rated value  at 460/480 V at 50 °C rated value  150 hp  Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529  ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to IEC 61508 relating to ATEX  certificate of suitability  ATEX  ATEX  IECEX  FEDEX  60 hp  150 hp  160 hp  1	operating power [hp] for 3-phase motors	
• at 460/480 V at 50 °C rated value  Electrical Safety protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to IEC 61508 relating to ATEX  certificate of suitability  • ATEX • IECEX  150 hp  IP00; IP20 with cover  finger-safe, for vertical contact from the front with cover  SIL1  SIL1  0.09  9E-6 1/h  0.09  100  100  100  100  100  100  10	<ul> <li>at 200/208 V at 50 °C rated value</li> </ul>	60 hp
Electrical Safety protection class IP on the front according to IEC 60529 IP00; IP20 with cover touch protection on the front according to IEC 60529  ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to IEC 61508 relating to ATEX  certificate of suitability  • ATEX • IECEX  PFD  IP00; IP20 with cover  IP00; IP00 with cover  IP00 with cover  IP00; IP00 with cover  I	• at 220/230 V at 50 °C rated value	60 hp
protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to IEC 61508 relating to ATEX  certificate of suitability  • ATEX  • IECEX  PFDS with how demand rate according to IEC 61508 relating to ATEX  Yes	at 460/480 V at 50 °C rated value	150 hp
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover  ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508 gel-6 1/h relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to IEC 61508 relating to ATEX  certificate of suitability  • ATEX  • IECEX  • IECEX  • IECEX   SIL1  0.09  9E-6 1/h  0.09  3 a  Yes	Electrical Safety	
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to IEC 61508 relating to ATEX  certificate of suitability  • ATEX  • IECEx  SIL1  0.09  9E-6 1/h  0.09  3 a  Yes	protection class IP on the front according to IEC 60529	IP00; IP20 with cover
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508 pelating to ATEX  PFDavg with low demand rate according to IEC 61508 pelating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to IEC 61508 relating to ATEX  certificate of suitability  • ATEX  • IECEX  SIL1  SIL1  O.09  9E-6 1/h  0.09  3 a	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover
to ATEX  PFHD with high demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to IEC 61508 relating to ATEX  certificate of suitability  • ATEX  • IECEX  PFDavg with low demand rate according to IEC 61508 0.09  0.09  3 a  Yes	ATEX	
relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to IEC 61508 relating to ATEX  certificate of suitability  • ATEX  • IECEx  • IECEx		SIL1
relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to IEC 61508 relating to ATEX  certificate of suitability  • ATEX  • IECEX  Ves		9E-6 1/h
ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability  • ATEX • IECEX  Yes		0.09
IEC 61508 relating to ATEX  certificate of suitability  • ATEX  • IECEX  Yes		0
◆ ATEX     ◆ IECEx     Yes		3 a
• IECEx Yes	certificate of suitability	
	• ATEX	Yes
• UKEX Yes	• IECEx	Yes
	• UKEX	Yes

## Approvals Certificates

## General Product Approval







Confirmation





EMV For use in hazardous locations Test Certificates Marine / Shipping

<u>KC</u>





Miscellaneous

Type Test Certificates/Test Report



Marine / Shipping other Environment









Environmental Confirmations

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RW5072-6AB14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5072-6AB14

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5072-6AB14

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5072-6AB14&lang=en

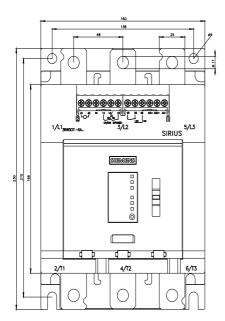
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5072-6AB14/char

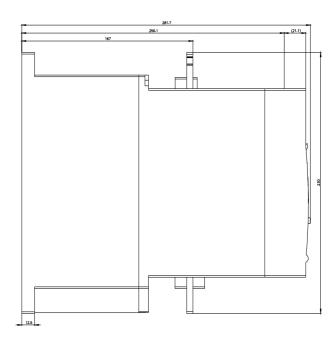
Characteristic: Installation altitude

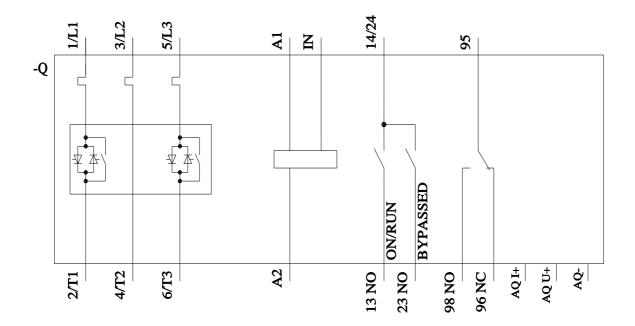
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5072-6AB14\&objecttype=14\&gridview=view1}$ 

Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917







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