## **SIEMENS**



Data sheet 3RW5526-3HA16



SIRIUS soft starter 200-690 V 77 A, 110-250 V AC spring-type terminals

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW55
manufacturer's article number	
<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 PROFINET high-feature usable</li> </ul>	3RW5950-0CH00
<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>	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3132-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3132-6; 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>	3NE1224-0; 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>	3NE3227; Type of coordination 2, Iq = 65 kA

General technical data	
starting voltage [%]	20 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 360 s
ramp-down time of soft starter	0 360 s
start torque [%]	10 100 %
stopping torque [%]	10 100 %
torque limitation [%]	20 200 %
current limiting value [%] adjustable	125 800 %
breakaway voltage [%] adjustable	40 100 %
breakaway time adjustable	0 2 s
number of parameter sets	3
accuracy class according to IEC 61557-12	5 %
certificate of suitability	

<ul> <li>CE marking</li> </ul>	Yes Yes Yes
<ul><li>UL approval</li></ul>	Yes
CSA approval	Yes
product component	
<ul> <li>HMI-High Feature</li> </ul>	Yes
is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
buffering time in the event of power failure	
<ul> <li>for main current circuit</li> </ul>	100 ms
for control circuit	100 ms
idle time adjustable	0 255 s
insulation voltage rated value	690 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	8 kV
blocking voltage of the thyristor maximum	1 800 V
service factor	1.15
surge voltage resistance rated value	8 kV
maximum permissible voltage for safe isolation	
between main and auxiliary circuit	690 V; does not apply for thermistor connection
shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz
recovery time after overload trip adjustable	60 1 800 s
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
product function	
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
breakaway pulse	Yes
adjustable current limitation	Yes
creep speed in both directions of rotation	Yes
pump ramp down	Yes
<ul><li>DC braking</li></ul>	Yes
motor heating	Yes
slave pointer function	Yes
trace function	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
inside-delta circuit	Yes; Only up to 600 V operating voltage
auto-RESET	Yes
manual RESET	Yes
• remote reset	Yes
communication function	Yes
operating measured value display	Yes
event list	Yes
error logbook	Yes
via software parameterizable	Yes
	Yes
<ul><li>via software configurable</li><li>screw terminal</li></ul>	No
	Yes
spring-loaded terminal     PROFloneray	
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High- Feature communication modules
firmware update	Yes
removable terminal for control circuit	Yes
voltage ramp	Yes

combined training     enalog output     enough control inputs/outputs     enough control inputs/out		
organism motiloring vision visi	·	Yes
organism motiloring vision visi	<u> </u>	Yes
organism motiloring vision visi		Yes; 4 20 mA (de 1 10 V
automatic parameterisation application wizards Application Ap	<ul> <li>programmable control inputs/outputs</li> </ul>	Yes
* application wizards     * alternative run down     * emergency operation mode     * emergency operation mode     * emergency operation mode     * every starting at heavy starting conditions     * Yes     * **Power Teckronics     * Operational current     * at 40 °C rated value     * at 60 °C rated value     * at 80 °C rated value     * at 80 °C rated value     * at 80 °C rated value value     * at 800 °C rated value     * a	3	Yes
elementary coperation mode     elementary operation mode     elementary operation mode     elementary operation     elementary starting at heavy starting conditions     Power Electronics  operational current     elementary starting at heavy starting conditions     elementary starting at heavy starting conditions     power Electronics  operational current     elementary starting at heavy starting conditions     elementary starting at heavy starting conditions     elementary starting at heavy starting conditions     elementary starting at heavy starting at heav	<ul> <li>automatic parameterisation</li> </ul>	Yes
emergency operation mode	application wizards	Yes
*eversing operation	<ul> <li>alternative run-down</li> </ul>	Yes
**Soft starting at heavy starting conditions  **Power Electronics  operational current  ** at 40 °C rated value  ** at 80 °C rated value  ** at miside-delta circuit rated value  ** at miside-delta circuit rated value  ** at miside-delta circuit rated value  ** at 80 °C at 10 °C rated value  ** a	<ul> <li>emergency operation mode</li> </ul>	Yes
power Electronics  operational current  • at 40 °C rated value  • at 40 °C rated value  • at 80 °C rat		Yes
operational current  • at 40 °C rated value • at 40 °C rated value • at 40 °C rated value • at 50 °C rated value • at 60 °C at 60 °C rated value • at 60		Yes
at 40 °C rated value minimum at 50 °C rated value at 60 °C at 60	Power Electronics	
at 40 °C rated value minimum at 50 °C rated value at 50 °C rated value 56 A	operational current	
• at 50 °C rated value • at 60 °C rated value • at 60 °C rated value • at 40 °C rated value • at 40 °C rated value • at 60 °C rated value • at 1 riside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at riside-delta circuit relative positive tolerance of the operating voltage at riside-delta circuit relative positive tolerance of the operating voltage at riside-delta circuit relative positive tolerance of the operating voltage at riside-delta circuit relative positive tolerance of the operating voltage at riside-delta circuit relative positive tolerance of the operating voltage • at 230 V at 10 °C rated value • at 40 °C rated value • at 40 °C rated value • at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at		77 A
e at 60 °C rated value operational current at inside-delta circuit e at 40 °C rated value 118 A 107 A 107 A 107 A 107 A 107 A 107 A 108 A		16 A
operational current at inside-detta circuit  at 40 °C rated value 118 A 107 A 107 A 108 A 108 A 109 V 108 A 109 V 200 690 V	<ul> <li>at 50 °C rated value</li> </ul>	
at 40 °C rated value at 50 °C rated value 118 A 110 A	at 60 °C rated value	62 A
at 50 °C rated value at 60 °C rated value  at 60 °C rated value  at 60 °C rated value  at inside-delta circuit rated value  relative positive tolerance of the operating voltage relative positive tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  operating power for 3-phase motors  at 230 V at 40 °C rated value  at 230 V at inside-delta circuit at 40 °C rated value  at 400 V at 40 °C rated value  at 400 V at inside-delta circuit at 40 °C rated value  at 500 V at inside-delta circuit at 40 °C rated value  at 500 V at of inside-delta circuit at 40 °C rated value  at 500 V at 10 °C rated value  by at 500 V at 40 °C rated value  at 500 V at 40 °C rated value  cat 500 V at 50 °C rated value  cat 500 V at 40 °C rated value  cat 500 V at 50 °C rated value  cat 500 V at 40 °C rated value  cat 500 V at 50 °C rated value  cat 500 V at 40 °C rated value  cat 500 V at 50 °C rated value  cat 500 V at 40 °C rated value  cat 500 V at 50 °C rater startup  at 50 °C after startup  at 50 °C during startup  at 60 °C during startup  at 6	operational current at inside-delta circuit	
e at 60 °C rated value  orrelating voltage e rated value e at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit at 400 ° tal do "Crated value at 230 ° tal of "Crated value at 400 ° tal of "Crated value at 500 ° tal of "Crated value at 500 ° tal inside-delta circuit at 40 ° Crated value at 500 ° tal inside-delta circuit at 40 ° Crated value at 500 ° tal inside-delta circuit at 40 ° Crated value be at 600 ° tal of "Crated value be at 600 ° tal of "Crated value cal 500 ° tal inside-delta circuit at 40 ° Crated value be at 600 ° tal of "Crated value cal 600 ° tal of "Crated value cal 600 ° tal of "Crated value cal 600 ° tal of "Crated value at 600 ° tal of "Crated value at 600 ° Calter startup cal 600 ° Calter start	• at 40 °C rated value	133 A
operating voltage  • rated value • at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative positive tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value  relative negative tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the operating frequency • at 50 °C after startup • at 60 °C during startup •	• at 50 °C rated value	118 A
rated value	at 60 °C rated value	107 A
e at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors at 230 V at 40 °C rated value at 230 V at inside-delta circuit at 40 °C rated value at 400 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at 40 °C rated value at 690 V at 40 °C rated value at 690 V at 40 °C rated value at 690 V at 40 °C rated value be at 690 V at 40 °C rated value at 690 V at 60 °C rated value be at 690 V at 60 °C rated value at 690 V at 60 °C rated value be at 690 V at 60 °C rated value colored frequency 1 rated value colored frequency 2 rated value colored frequency 2 rated value colored frequency 3 rated value colored frequency 4 rated value colored frequency 5 rated value colored frequency 6 rated value colored frequency 7 rated value colored frequency 8 rated value colored frequency 9 rated value colored frequency 9 rated value colored frequency 10 % colored frequency	operating voltage	
relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  operating power for 3-phase motors  • at 230 V at 140 °C rated value • at 230 V at 140 °C rated value • at 400 V at 10 riside-delta circuit at 40 °C rated value • at 400 V at 10 riside-delta circuit at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 10 riside-delta circuit at 40 °C rated value • at 500 V at 10 riside-delta circuit at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at 0 °C rated value  Operating frequency 1 rated value  Operating frequency 2 rated value  Operating frequency 1 rated value  Operating frequency 2 rated value  Operating frequency 3 rated value  Operating frequency 4 rated value  Operating frequency 5 rated value  Operating frequency 60 Hz  In 0%  Relative positive tolerance of the current at AC  • at 40 °C after startup  • at 50 °C after startup  • at 60 °C during startup  • at 60	rated value	200 690 V
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors  • at 230 V at 40 °C rated value • at 430 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 10 °C rated value • at 500 V at 10 °C rated value • at 690 V at 10 °C rated value • at 690 V at 10 °C rated value • at 690 V at 10 °C rated value  relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC • at 40 °C after startup • at 60 °C after startup  power loss [W] at AC at current limitation 350 % • at 40 °C during startup • at 60 °C during startup  pot the motor protection  Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 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 positive 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 positive tolerance of the control supply voltage at AC at 50 Hz	at inside-delta circuit rated value	200 600 V
relative negative tolerance of the operating voltage at inside-delta circuit  operating power for 3-phase motors  • at 230 V at 40 °C rated value  • at 430 V at inside-delta circuit at 40 °C rated value  • at 430 V at inside-delta circuit at 40 °C rated value  • at 400 V at 40 °C rated value  • at 500 V at 10 °C rated value  • at 500 V at 10 °C rated value  • at 500 V at 10 °C rated value  • at 500 V at 10 °C rated value  • at 500 V at 10 °C rated value  • at 500 V at 10 °C rated value  • at 500 V at 10 °C rated value  • at 690 V at 10 °C rated value  • at 690 V at 10 °C rated value  • at 690 V at 10 °C rated value  Operating frequency 1 rated value  Operating frequency 2 rated value  Operating frequency 2 rated value  Operating frequency 2 rated value  of 0 Hz  relative positive tolerance of the operating frequency  minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup  • at 50 °C after startup  • at 60 °C after startup  • at 60 °C after startup  • at 60 °C during startup  • at 60 °C durin	relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors  • at 230 V at 40 °C rated value • at 230 V at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at inside-delta circuit at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at inside-delta circuit at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 10 °C rated value • at 500 V at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at 40 °C rated value  Operating frequency 1 rated value  Operating frequency 2 rated value  Operating frequency 2 rated value  Operating frequency 60 Hz  relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC • at 40 °C after startup • at 60 °C after startup • at 60 °C after startup • at 60 °C during	relative positive tolerance of the operating voltage	10 %
inside-delta circuit operating power for 3-phase motors  at 230 V at 40 °C rated value at 400 V at 40 °C rated value at 400 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value 45 kW at 500 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value 50 kW at 690 V at 40 °C rated value 60 Hz Operating frequency 1 rated value 60 Hz relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] 0 will for rated value of the current at AC at 40 °C after startup at 60 °C after startup 20 W at 60 °C after startup  at 60 °C after startup  power loss [W] at AC at current limitation 350 % at 40 °C during startup at 60 °C during startup at 60 °C during startup  et 60 °C during startup  at 60 °C during startup  et 60 °C during startup  e		-15 %
at 230 V at 40 °C rated value at 230 V at inside-delta circuit at 40 °C rated value at 400 V at 40 °C rated value at 400 V at 40 °C rated value at 500 V at 40 °C rated value at 500 V at 40 °C rated value at 500 V at whise-delta circuit at 40 °C rated value at 500 V at whise-delta circuit at 40 °C rated value at 500 V at 10 °C rated value but 600 V at 40 °C rated value at 690 V at 40 °C rated value but 600 V at 40 °C rated value coperating frequency 1 rated value  Operating frequency 2 rated value  Operating frequency 2 rated value color relative positive tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC at 40 °C after startup at 50 °C after startup at 50 °C after startup but 60 °C after startup at 60 °C after startup at 60 °C during startup at 60 °C during startup but 60 °C during startup at 60 °C during startup but 60 °C during startup at 60 °C during startup but 60 °C		10 %
at 230 V at inside-delta circuit at 40 °C rated value at 400 V at 40 °C rated value at 400 V at 40 °C rated value at 500 V at 40 °C rated value at 690 V at 40 °C rated value but 690 V at 40 °C rated value at 690 V at 40 °C rated value but 690 V at 40 °C rated value  Operating frequency 1 rated value Operating frequency 1 rated value Operating frequency 1 rated value Operating frequency 2 rated value Operating frequency 10 % relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC at 40 °C after startup at 50 °C after startup but 60 °C after startup 19 W  power loss [W] at AC at current limitation 350 % at 60 °C during startup at 60 °C during startup but 60 °C during startup	operating power for 3-phase motors	
at 400 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at 10 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value but 60 V at 100 V at	<ul> <li>at 230 V at 40 °C rated value</li> </ul>	22 kW
at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at 40 °C rated value at 690 V at 40 °C rated value be at 500 V at 40 °C rated value at 690 V at 40 °C rated value  Operating frequency 1 rated value  Operating frequency 2 rated value  Operating frequency 2 rated value  Operating frequency 2 rated value  relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]  To %; Relative to set le  power loss [W] for rated value of the current at AC at 40 °C after startup at 50 °C after startup  at 50 °C after startup  out 40 °C during startup at 50 °C during startup at 50 °C during startup  at 50 °C during startup  at 50 °C during startup  et 50 °C during startup  Electronic, tripping in the event of thermal overload of the motor  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  at 50 Hz  relative positive tolerance of the control supply roltage at AC at 50 Hz  relative positive tolerance of the control supply  10 %	<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	37 kW
at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value  Operating frequency 1 rated value  Operating frequency 2 rated value  Operating frequency 2 rated value  Operating frequency 2 rated value  relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]  10 % minimum load [%]  10 %; Relative to set le  power loss [W] for rated value of the current at AC  at 40 °C after startup at 50 °C after startup  ot 460 °C after startup  power loss [W] at AC at current limitation 350 %  at 40 °C during startup at 50 °C during startup  type of the motor protection  Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC  at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply  10 %  10 %  10 %; Relative to set le  23 W  24 W  25 W  26 W  27 W  28 W  29 W  20 W  20 W  20 W  21 W  22 W  24 W  25 W  26 W  27 W  28 W  29 W  20 W  20 W  20 W  21 W  22 W  24 W  25 W  26 W  27 W  28 W  29 W  20 W	<ul> <li>at 400 V at 40 °C rated value</li> </ul>	37 kW
at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value  Operating frequency 1 rated value  Operating frequency 2 rated value  Operating frequency 3 on Hz  Operating frequency 4 on Hz  Operating frequency 5 on Hz  Operating frequency 6 on Hz  relative positive tolerance of the operating frequency  minimum load [%]  power loss [W] for rated value of the current at AC  out 150 °C after startup  out 150 °C after startup  power loss [W] at AC at current limitation 350 %  out 40 °C during startup  out 10 %; Relative to set le  23 W  out 150 °C after startup  power loss [W] at AC at current limitation 350 %  out 40 °C during startup  out 10 %3 W  out 10 %4 W  out 10	<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	75 kW
• at 690 V at 40 °C rated value  Operating frequency 1 rated value  Operating frequency 2 rated value  relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup  • at 50 °C after startup  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup  • at 50 °C during startup  • at 50 °C during startup  • at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  • at 50 Hz  • at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply  10 %	<ul> <li>at 500 V at 40 °C rated value</li> </ul>	45 kW
Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup • at 50 °C after startup  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup • at 50 °C during startup • at 50 °C during startup  • at 60 °C during startup  • at 60 °C during startup  • at 60 °C during operating frequency 10 %  10 %; Relative to set le  23 W  • at 50 °C after startup 19 W  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup  • at 60 °C during startup  • at 60 °C during startup  • at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  • at 50 Hz  • at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply 10 %	<ul> <li>at 500 V at inside-delta circuit at 40 °C rated value</li> </ul>	90 kW
Operating frequency 2 rated value  relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup • at 50 °C after startup  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup  power loss [W] at AC at current limitation 350 %  • at 50 °C during startup  • at 60 °C during startup  **The startup is the event of thermal overload of the motor overload	at 690 V at 40 °C rated value	75 kW
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup • at 50 °C during startup • at 60 °C during startup • at 60 °C during startup  • at 60 °C during startup  • at 60 °C during startup  • at 60 °C during startup  • at 60 °C during startup  • at 60 °C during startup  **Startup**  **To with motor protection**  **Control circuit/ Control**  **Tope of voltage of the control supply voltage  control supply voltage at AC  • at 50 Hz  • at 60 Hz  relative positive tolerance of the control supply  10 %  **To with motor supply  -15 %  relative positive tolerance of the control supply  10 %	Operating frequency 1 rated value	50 Hz
relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup • at 60 °C during startup • at 60 °C during startup • at 60 °C during startup  • at 60 °C during startup  • at 60 °C during startup  • at 60 °C during startup  • at 60 °C during startup  • at 60 °C during startup  • at 60 °C during startup  • at 60 °C during startup  • at 60 °C during startup  • at 60 °C during startup  • at 60 °C during startup  **Electronic, tripping in the event of thermal overload of the motor  **Control circuit/ Control**  type of voltage of the control supply voltage  control supply voltage at AC  • at 50 Hz  • at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply  10 %	Operating frequency 2 rated value	60 Hz
minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup  • at 50 °C after startup  • at 60 °C after startup  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup  • at 60 °C during startup  **Startup**  **Electronic, tripping in the event of thermal overload of the motor  **Control circuit/ Control**  type of voltage of the control supply voltage  control supply voltage at AC  • at 50 Hz  • at 60 Hz  **To work and the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply  **To work and the current at AC  **To work and th	relative negative tolerance of the operating frequency	-10 %
power loss [W] for rated value of the current at AC  • at 40 °C after startup  • at 50 °C after startup  • at 60 °C after startup  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup  • at 50 °C during startup  • at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  • at 50 Hz  • at 60 Hz  • at 60 Hz  relative negative tolerance of the control supply  relative positive tolerance of the control supply  10 %	relative positive tolerance of the operating frequency	10 %
<ul> <li>at 40 °C after startup</li> <li>at 50 °C after startup</li> <li>at 60 °C after startup</li> <li>power loss [W] at AC at current limitation 350 %</li> <li>at 40 °C during startup</li> <li>at 50 °C during startup</li> <li>at 50 °C during startup</li> <li>at 60 °C during startup</li> <li>at 60 °C during startup</li> <li>type of the motor protection</li> <li>Electronic, tripping in the event of thermal overload of the motor</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>relative negative tolerance of the control supply voltage at AC at 50 Hz</li> <li>relative positive tolerance of the control supply</li> <li>10 %</li> </ul>	minimum load [%]	10 %; Relative to set le
<ul> <li>at 50 °C after startup</li> <li>at 60 °C after startup</li> <li>power loss [W] at AC at current limitation 350 %</li> <li>at 40 °C during startup</li> <li>at 50 °C during startup</li> <li>at 60 °C during startup</li> <li>at 60 °C during startup</li> <li>type of the motor protection</li> <li>Electronic, tripping in the event of thermal overload of the motor</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>relative negative tolerance of the control supply voltage at AC at 50 Hz</li> <li>relative positive tolerance of the control supply</li> <li>10 %</li> </ul>	power loss [W] for rated value of the current at AC	
<ul> <li>at 60 °C after startup</li> <li>power loss [W] at AC at current limitation 350 %</li> <li>at 40 °C during startup</li> <li>at 50 °C during startup</li> <li>at 60 °C during startup</li> <li>type of the motor protection</li> <li>Electronic, tripping in the event of thermal overload of the motor</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>relative negative tolerance of the control supply voltage of the control supply voltage at AC at 50 Hz</li> <li>relative positive tolerance of the control supply</li> <li>10 %</li> </ul>	<ul> <li>at 40 °C after startup</li> </ul>	23 W
power loss [W] at AC at current limitation 350 %  • at 40 °C during startup  • at 50 °C during startup  • at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  • at 50 Hz  • at 60 Hz  relative positive tolerance of the control supply  1 083 W  921 W  814 W  Electronic, tripping in the event of thermal overload of the motor  AC  Linux 250 V  110 250 V  -15 %  -15 %  10 %	<ul> <li>at 50 °C after startup</li> </ul>	20 W
<ul> <li>at 40 °C during startup</li> <li>at 50 °C during startup</li> <li>at 60 °C during startup</li> <li>type of the motor protection</li> <li>Electronic, tripping in the event of thermal overload of the motor</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>aC</li> <li>control supply voltage at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>110 250 V</li> <li>relative negative tolerance of the control supply voltage at AC at 50 Hz</li> <li>relative positive tolerance of the control supply</li> <li>10 %</li> </ul>	at 60 °C after startup	19 W
<ul> <li>at 50 °C during startup</li> <li>at 60 °C during startup</li> <li>type of the motor protection</li> <li>Electronic, tripping in the event of thermal overload of the motor</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>AC</li> <li>control supply voltage at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>relative negative tolerance of the control supply voltage at AC at 50 Hz</li> <li>relative positive tolerance of the control supply</li> <li>relative positive tolerance of the control supply</li> <li>10 %</li> </ul>	power loss [W] at AC at current limitation 350 %	
• at 60 °C during startup  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  control supply voltage at AC  • at 50 Hz  • at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply  10 %	<ul> <li>at 40 °C during startup</li> </ul>	1 083 W
type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  o at 50 Hz  o at 60 Hz  relative positive tolerance of the control supply  relative positive tolerance of the control supply  Electronic, tripping in the event of thermal overload of the motor  AC  110 250 V  110 250 V  -15 %  -15 %	<ul> <li>at 50 °C during startup</li> </ul>	921 W
type of voltage of the control supply voltage  control supply voltage at AC  • at 50 Hz  • 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 positive tolerance of the control supply 10 %	at 60 °C during startup	814 W
type of voltage of the control supply voltage  control supply voltage at AC  • at 50 Hz • 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 positive tolerance of the control supply  10 %	type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
control supply voltage at AC  • at 50 Hz  • at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply  10 %	Control circuit/ Control	
• at 50 Hz     • at 60 Hz     • at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply  relative positive tolerance of the control supply  10 %	type of voltage of the control supply voltage	AC
● at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply  110 250 V  -15 %  10 %	control supply voltage at AC	
relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply 10 %	● at 50 Hz	110 250 V
voltage at AC at 50 Hz relative positive tolerance of the control supply 10 %	• at 60 Hz	110 250 V
		-15 %
	relative positive tolerance of the control supply	10 %

relative negative tolerance of the control supply voltage at AC at 60 Hz	objective dientudong
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply current in standby mode rated value	100 mA
holding current in bypass operation rated value	180 mA
locked-rotor current at close of bypass contact maximum	0.8 A
inrush current peak at application of control supply voltage maximum	43 A
duration of inrush current peak at application of control supply voltage	1.6 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	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
Inputs/ Outputs	
number of digital inputs	4
parameterizable	4
number of digital outputs	4
number of digital outputs parameterizable	3
number of digital outputs not parameterizable	1
digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	·
• at AC-15 at 250 V rated value	3 A
at DC-13 at 24 V rated value	1 A
Installation/ mounting/ dimensions	174
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
fastening method	screw fixing
height	306 mm
width	185 mm
depth	203 mm
required spacing with side-by-side mounting	200 111111
forwards	10 mm
<ul> <li>hackwards</li> </ul>	
backwards     upwards	0 mm
• upwards	0 mm 100 mm
<ul><li>upwards</li><li>downwards</li></ul>	0 mm 100 mm 75 mm
<ul><li>upwards</li><li>downwards</li><li>at the side</li></ul>	0 mm 100 mm 75 mm 5 mm
<ul> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> weight without packaging	0 mm 100 mm 75 mm
upwards downwards at the side weight without packaging Connections/ Terminals	0 mm 100 mm 75 mm 5 mm
<ul> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> <li>Connections/ Terminals</li> <li>type of electrical connection</li> </ul>	0 mm 100 mm 75 mm 5 mm 7.15 kg
<ul> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> <li>Connections/ Terminals</li> <li>type of electrical connection</li> <li>for main current circuit</li> </ul>	0 mm 100 mm 75 mm 5 mm 7.15 kg
<ul> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> <li>Connections/ Terminals</li> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for control circuit</li> </ul>	0 mm 100 mm 75 mm 5 mm 7.15 kg  box terminal spring-loaded terminals
upwards downwards at the side  weight without packaging  Connections/ Terminals  type of electrical connection for main current circuit for control circuit width of connection bar maximum	0 mm 100 mm 75 mm 5 mm 7.15 kg
upwards downwards at the side  weight without packaging  Connections/ Terminals  type of electrical connection for main current circuit for control circuit  width of connection bar maximum wire length for thermistor connection	0 mm 100 mm 75 mm 5 mm 7.15 kg  box terminal spring-loaded terminals 25 mm
<ul> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> <li>Connections/ Terminals</li> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for control circuit</li> <li>width of connection bar maximum</li> <li>wire length for thermistor connection</li> <li>with conductor cross-section = 0.5 mm² maximum</li> </ul>	0 mm 100 mm 75 mm 5 mm 7.15 kg  box terminal spring-loaded terminals 25 mm 50 m
<ul> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> <li>Connections/ Terminals</li> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for control circuit</li> <li>width of connection bar maximum</li> <li>wire length for thermistor connection</li> <li>with conductor cross-section = 0.5 mm² maximum</li> <li>with conductor cross-section = 1.5 mm² maximum</li> </ul>	0 mm 100 mm 75 mm 5 mm 7.15 kg  box terminal spring-loaded terminals 25 mm  50 m 150 m
<ul> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> <li>Connections/ Terminals</li> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for control circuit</li> <li>width of connection bar maximum</li> <li>wire length for thermistor connection</li> <li>with conductor cross-section = 0.5 mm² maximum</li> <li>with conductor cross-section = 1.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> </ul>	0 mm 100 mm 75 mm 5 mm 7.15 kg  box terminal spring-loaded terminals 25 mm 50 m
upwards downwards at the side  weight without packaging  Connections/ Terminals  type of electrical connection for main current circuit for control circuit  width of connection bar maximum  wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum wire length for thermistor connection with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for main contacts for box terminal using the front	0 mm 100 mm 75 mm 5 mm 7.15 kg  box terminal spring-loaded terminals 25 mm  50 m 150 m
upwards downwards at the side  weight without packaging  Connections/ Terminals  type of electrical connection for main current circuit for control circuit  width of connection bar maximum  wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections	0 mm 100 mm 75 mm 5 mm 7.15 kg  box terminal spring-loaded terminals 25 mm  50 m 150 m 250 m
upwards downwards at the side  weight without packaging  Connections/ Terminals  type of electrical connection for main current circuit for control circuit  width of connection bar maximum  wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point solid for main contacts for box terminal using the front clamping point finely stranded with core end	0 mm 100 mm 75 mm 5 mm 7.15 kg  box terminal spring-loaded terminals 25 mm  50 m 150 m 250 m

using the front clamping point  • for main contacts for box terminal using the back clamping point solid  • at AWG cables for main contacts for box terminal using the back clamping point  • for main contacts for box terminal using both clamping points solid  • for main contacts for box terminal using both clamping points finely stranded with core end processing  • for main contacts for box terminal using both clamping points stranded  • for main contacts for box terminal using both clamping points stranded  • for main contacts for box terminal using the back clamping point finely stranded with core end processing  • for main contacts for box terminal using the back clamping point stranded  • for main contacts for box terminal using the back clamping point stranded with core end processing  • for control circuit solid  • for control circuit finely stranded with core end processing
<ul> <li>at AWG cables for main contacts for box terminal using the back clamping point</li> <li>for main contacts for box terminal using both clamping points solid</li> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> <li>for main contacts for box terminal using both clamping points stranded</li> <li>for main contacts for box terminal using both clamping point stranded</li> <li>for main contacts for box terminal using the back clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the back clamping point stranded</li> <li>for main contacts for box terminal using the back clamping point stranded</li> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end</li> <li>for control circuit finely stranded with core end</li> <li>2x (2.5 16 mm²)</li> <li>2x (2.5 35 mm²)</li> <li>1x (2.5 50 mm²)</li> <li>1x (10 70 mm²)</li> <li>2x (0.25 1.5 mm²)</li> <li>2x (0.25 1.5 mm²)</li> </ul>
using the back clamping point  • for main contacts for box terminal using both clamping points solid  • for main contacts for box terminal using both clamping points finely stranded with core end processing  • for main contacts for box terminal using both clamping points stranded  • for main contacts for box terminal using the back clamping point finely stranded with core end processing  • for main contacts for box terminal using the back clamping point finely stranded with core end processing  • for main contacts for box terminal using the back clamping point stranded  • for main contacts for box terminal using the back clamping point stranded  • for onectable conductor cross-sections  • for control circuit solid  • for control circuit finely stranded with core end  2x (2.5 16 mm²)  2x (2.5 35 mm²)  1x (2.5 50 mm²)  1x (10 70 mm²)  2x (0.25 1.5 mm²)
clamping points solid  • for main contacts for box terminal using both clamping points finely stranded with core end processing  • for main contacts for box terminal using both clamping points stranded  • for main contacts for box terminal using the back clamping point finely stranded with core end processing  • for main contacts for box terminal using the back clamping point stranded  • for main contacts for box terminal using the back clamping point stranded  type of connectable conductor cross-sections  • for control circuit solid  • for control circuit finely stranded with core end  • for control circuit finely stranded with core end  2x (2.5 35 mm²)  2x (6 16 mm²), 2x (10 50 mm²)  1x (2.5 50 mm²)  2x (0.25 1.5 mm²)
clamping points finely stranded with core end processing  • for main contacts for box terminal using both clamping points stranded  • for main contacts for box terminal using the back clamping point finely stranded with core end processing  • for main contacts for box terminal using the back clamping point stranded  • for control circuit solid • for control circuit finely stranded with core end  • for control circuit finely stranded with core end  2x (6 16 mm²), 2x (10 50 mm²)  1x (2.5 50 mm²)  1x (10 70 mm²)
clamping points stranded  • for main contacts for box terminal using the back clamping point finely stranded with core end processing  • for main contacts for box terminal using the back clamping point stranded  type of connectable conductor cross-sections  • for control circuit solid  • for control circuit finely stranded with core end  2x (0.25 1.5 mm²)
clamping point finely stranded with core end processing  • for main contacts for box terminal using the back clamping point stranded  type of connectable conductor cross-sections  • for control circuit solid  • for control circuit finely stranded with core end  2x (0.25 1.5 mm²)
clamping point stranded  type of connectable conductor cross-sections  • for control circuit solid
<ul> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end</li> <li>2x (0.25 1.5 mm²)</li> <li>2x (0.25 1.5 mm²)</li> </ul>
• for control circuit finely stranded with core end 2x (0.25 1.5 mm²)
•
r · · · · · · · · · · · · ·
• at AWG cables for control circuit solid 2x (24 16)
• at AWG cables for control circuit finely stranded with core end processing  2x (24 16)
wire length
• between soft starter and motor maximum 800 m
• at the digital inputs at DC maximum 1 000 m
tightening torque
• for main contacts with screw-type terminals 4.5 6 N·m
<ul> <li>for auxiliary and control contacts with screw-type</li> <li>terminals</li> </ul>
tightening torque [lbf·in]
• for main contacts with screw-type terminals 40 53 lbf·in
<ul> <li>for auxiliary and control contacts with screw-type</li> <li>7 10.3 lbf-in</li> </ul>
Ambient conditions
installation altitude at height above sea level maximum 2 000 m; Derating as of 1000 m, see catalog
ambient temperature
• during operation -25 +60 °C; Please observe derating at temperatures of 40 °C or above
• during storage and transport -40 +80 °C
environmental category
• during operation according to IEC 60721  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
• during storage according to IEC 60721  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
• during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference acc. to IEC 60947-4-2: Class A, Class B on request
Communication/ Protocol
communication module is supported
PROFINET standard     Yes
PROFINET high-feature     Yes
• EtherNet/IP Yes
Modbus RTU     Yes
Modbus TCP     Yes
• PROFIBUS Yes
UL/CSA ratings
manufacturer's article number
• of circuit breaker
— usable for Standard Faults at 460/480 V Siemens type: 3VA51, max. 125 A; Iq = 10 kA according to UL
— usable for High Faults at 460/480 V according  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA to UL
— usable for Standard Faults at 460/480 V at Siemens type: 3VA51, max. 125 A; Iq = 10 kA

inside-delta circuit according to UL - usable for High Faults at 460/480 V at inside-Siemens type: 3VA delta circuit according to UL - usable for Standard Faults at 575/600 V Siemens type: 3VA5 according to UL - usable for High Faults at 575/600 V at inside-Siemens type: 3VA51, max. 125 A; Iq max = 65 kA delta circuit according to UL - usable for Standard Faults at 575/600 V at Siemens type: 3VA51, max. 125 A; Iq = 10 kA inside-delta circuit according to UL of the fuse usable for Standard Faults up to 575/600 V Type: Class RK5 / K5, max. 250 A; Iq = 10 kA according to UL usable for High Faults up to 575/600 V Type: Class J / L, max. 250 A; Iq = 100 kA according to UL - usable for Standard Faults at inside-delta Type: Class RK5 / K5, max. 250 A; Iq = 10 kA circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up Type: Class J / L, max. 250 A; Iq = 100 kA to 575/600 V according to UL operating power [hp] for 3-phase motors at 200/208 V at 50 °C rated value 20 hp • at 220/230 V at 50 °C rated value 25 hp • at 460/480 V at 50 °C rated value 50 hp • at 575/600 V at 50 °C rated value 60 hp • at 200/208 V at inside-delta circuit at 50 °C rated 30 hp • at 220/230 V at inside-delta circuit at 50 °C rated 40 hp value • at 460/480 V at inside-delta circuit at 50 °C rated 75 hp value • at 575/600 V at inside-delta circuit at 50 °C rated 100 hp value contact rating of auxiliary contacts according to UL R300-B300 Safety related data IP00; IP20 with cover 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 acc. to IEC 60947-4-2 electromagnetic compatibility **ATEX** certificate of suitability ATEX Yes IFCEx Yes according to ATEX directive 2014/34/EU BVS 18 ATEX F 003 X type of protection according to ATEX directive II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], 2014/34/EU I (M2) [Ex db Mb] hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 0.008 relating to ATEX PFHD with high demand rate according to EN 62061 5E-7 1/h relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 SIL<sub>1</sub> relating to ATEX T1 value for proof test interval or service life 3 s according to IEC 61508 relating to ATEX Certificates/ approvals



**General Product Approval** 

Confirmation









For use in hazardous locations Declaration of Test Certificates Marine / Shipping

**EMC** 

## Conformity









Marine / Shipping

other





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=3RW5526-3HA16

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5526-3HA16}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5526-3HA16

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5526-3HA16&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

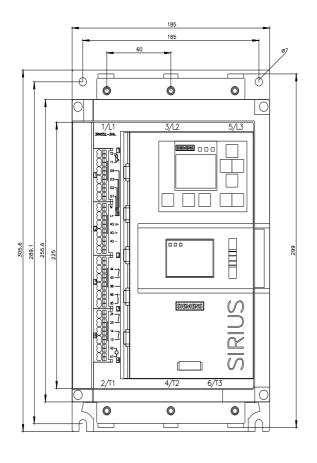
https://support.industry.siemens.com/cs/ww/en/ps/3RW5526-3HA16/char

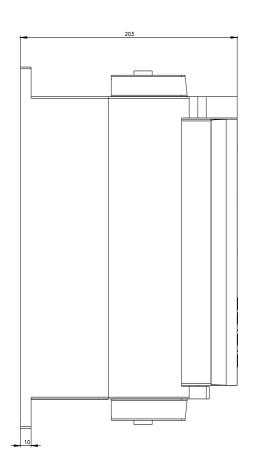
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5526-3HA16&objecttype=14&gridview=view1

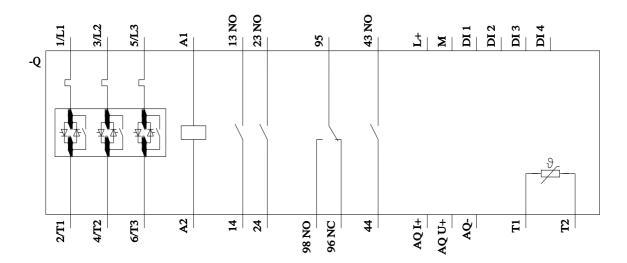
Simulation Tool for Soft Starters (STS)

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









last modified: 5/13/2022 **C** 

Hotline: 0909000786 - lam@dientudong.com

