SIEMENS

Data sheet

3RW5244-2TC14

SIRIUS soft starter 200-480 V 250 A, 110-250 V AC spring-type terminals Thermistor input



Figure similar

Product brand name	SIRIUS
Product category	Hybrid switching devices
Product designation	Soft starter
Manufacturer's article number	
• of HMI module usable	3RW5980-0HS00
 of HMI-Modul high-feature usable 	3RW5980-0HF00
 of communication module PROFINET standard usable 	3RW5980-0CS00
 of communication module PROFIBUS usable 	3RW5980-0CP00
 of communication module Modbus TCP usable 	3RW5980-0CT00
• of circuit breaker usable at 400 V	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of the gG fuse usable up to 690 V 	2x3NA3354-6; Type of coordination 1, Iq = 65 kA

 of the gG fuse usable at inside-delta circuit up 	2x3NA3354-6; Type of coordination 1, Iq = 65
to 500 V	
	2NE4224 Or Type of coordination 2. In - CE I/A

• of full range R fuse link for semiconductor protection usable up to 690 V

• of back-up R fuse link for semiconductor protection usable up to 690 V

3NE1331-0; Type of coordination 2, Iq = 65 kA

kA

3NE3336; Type of coordination 2, Iq = 65 kA

General technical data	
Starting voltage [%]	30 100 %
Start-up ramp time of soft starter	0 20 s
Product component	
 is supported HMI-Standard 	Yes
 is supported HMI-High Feature 	Yes
Product feature integrated bypass contact system	Yes
Number of controlled phases	3
Trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
Insulation voltage	
rated value	600 V
Degree of pollution	3
Impulse voltage rated value	6 kV
Blocking voltage of the thyristor maximum	1 600 V
Service factor	1
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 between main and auxiliary circuit 	600 V
Protection class IP	IP00; IP20 with additional terminal covers for vertical touching from the front
Usage category acc. to IEC 60947-4-2	AC 53a
Shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
Vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
Reference code acc. to DIN EN 81346-2	Q
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; Full motor protection (thermistor motor protection and electronic motor overload protection)
 Evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick
• inside-delta circuit	Yes
Auto-reset	Yes
Manual RESET	Yes

• remote resetYes; By turning off the control supply voltage• communication functionYes;• via software updateYes;• removable terminal for control circuitYes;• removable terminal for control circuitYes;• analog outputNoPower Telectronics200 A• at d0 °C rated value200 A• at d0 °C rated value200 A• at d0 °C rated value200 A• at d0 °C rated value381 A• at d0 °C rated value381 A• at d0 °C rated value200 480 V• at at 30 °C rated value15 %• at at 30 °C rated value15 %• at 30 °C rated value15 %• at 30 °C rated value200 480 V• at 30 °C rated value15 %• at 30 °C rated value15 %• at 30 °C rated value15 %• at 30 °C rated value20 %• at 30 °C rated value15 %• at 300 °C rated value20 %• at 300 °C rated value15 %• at 300 °C rated value10 %• at 30 °C rated value10 %• at 300 °C rated value10 %<		
via software configurable Ves via software configurable Yes ermovable terminal for control circuit 200 A ermovable terminal inside-delta circuit 200 A ermovable delta circuit 4133 A ermovable delta circuit 346 A Operating voltage 200 480 V ermovable telerance of the operating voltage 15 % erated value 200 480 V erated value 200 480 V erated value 200 480 V erated value 10 % relative negative tolerance of the operating voltage 15 % relative positive tolerance of the operating voltage 15 % relative delta circuit 10 % relative delta circuit 10 % eratoro V three-phase motors	• remote reset	Yes; By turning off the control supply voltage
Instruction of particulation Yes • removable terminal for control circuit Yes • analog output No Power Electronics 200 A • at do "C rated value 333 A • at do "C rated value 343 A • at do "C rated value 346 A Operafing vortage - • rated value 200 480 V • at is do "C rated value 200 480 V • at is do data circuit rated value 200 480 V • at isside-deta circuit rated value 200 480 V • at isside-deta circuit rated value 10 % Relative negative tolerance of the operating voltage 10 % Inside-deta circuit 10 % Poerating power for three-phase motors - • at 230 V at 40 °C rated value 15 % • at 230 V at 10 °C rated value 132 kW • at 230 V at 10 °C rated value 250 kW • at 230 V	 communication function 	Yes
emovable terminal for control circuit Yes enalog output No Power Electronics Power Ele	 via software configurable 	Yes
• analog outputNoPower ElectronicsOperating current250 A• at 40 °C rated value200 A• at 60 °C rated value200 A• at 60 °C rated value433 A• at 60 °C rated value433 A• at 60 °C rated value381 A• at 60 °C rated value200 480 V• at ed value00 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit rated value15 %• at inside-delta circuit rated value15 %• at inside-delta circuit rated value13 %• at 230 V at 10 °C rated value13 %• at 230 V at 10 °C rated value75 %W• at 230 V at 10 °C rated value75 kW• at 230 V at 10 °C rated value132 kW• at 230 V at 10 °C rated value132 kW• at 400 °C rated value132 kW• at 400 °C rated value60 Hz• at 400 °C rated value10 %• at 400 °C rated value10 %• at 400 °C rated value60 Hz• at 400 °C rated value10 %• at 400 °C rated	• firmware update	Yes
Prover Electronics Operating current 250 A • at 50 °C rated value 220 A • at 60 °C rated value 200 A Operating current at inside-delta circuit 433 A • at 60 °C rated value 381 A • at 60 °C rated value 346 A Operating voltage 200 480 V • at inside-delta circuit rated value 200 480 V • at inside-delta circuit rated value 200 480 V • at inside-delta circuit rated value 10 % Relative negative tolerance of the operating voltage 15 % Relative negative tolerance of the operating voltage at inside-delta circuit 10 % Inside-delta circuit 10 % • at 230 V at 40 °C rated value 12 kW • at 230 V at 40 °C rated value 132 kW • at 2400 V at inside-delta circuit at 40 °C rated value 250 kW • at 400 V at inside-delta circuit at 40 °C rated value 250 kW • at 400 V at inside-delta circuit at 40 °C rated value 12 kW	 removable terminal for control circuit 	Yes
Operating current 250 A • at 40 °C rated value 250 A • at 60 °C rated value 200 A Operating current at inside-delta circuit 433 A • at 60 °C rated value 381 A • at 60 °C rated value 380 V • at 60 °C rated value 300 480 V • at inside-delta circuit rated value 200 480 V • at inside-delta circuit rated value 15 % Relative negative tolerance of the operating voltage 15 % Relative positive tolerance of the operating voltage 15 % Relative positive tolerance of the operating voltage at inside-delta circuit at 40 °C rated value 10 % • at 230 V at 0 °C rated value 75 kW • at 230 V at 0 °C rated value 132 kW • at 230 V at 0 °C rated value 250 kW • at 400 V at niside-delta circuit at 40 °C rated value 132 kW • at 400 V at niside-delta circuit at 40 °C rated value 250 kW • at 400 V at niside-delta circuit at 40 °C rated value 20 kW • at 400 V at niside-delta circuit at 40 °C rated value 10 % • at inside-delta circuit at 40 °C rated value 10 %	● analog output	No
• at 40 °C rated value250 Å• at 50 °C rated value200 Å• at 60 °C rated value200 Å• at 60 °C rated value303 Å• at 60 °C rated value331 Å• at 60 °C rated value381 Å• at 60 °C rated value346 Å• at 60 °C rated value200 480 V• at ad value200 480 V• at ad value200 480 V• at ad value15 %• rated value10 %• rated value10 %• at advice tolerance of the operating voltage15 %• rated value10 %• rated value10 %• rated value12 kW• at 230 V at 40 °C rated value13 kW• at 230 V at 10 °C rated value13 kW• at 230 V at 10 °C rated value13 kW• at 230 V at 10 °C rated value10 %• at 230 V at 10 °C rated value13 kW• at 400 V at inside-delta circuit at 40 °C rated value13 kW• at 400 V at inside-delta circuit at 40 °C rated value10 %• at 400 V at inside-delta circuit at 40 °C rated value10 %• at 400 V at inside-delta circuit at 40 °C rated value10 %• at 400 V at inside-delta circuit at 40 °C rated value10 %• at 400 V at inside-delta circuit at 40 °C rated value10 %• at inside-delta circuit at 40 °C rated value10 %• at inside-delta circuit at 40 °C rated value10 %• at inside-delta circuit at 40 °C rated value10 %• at inside-delta circuit minimum10 %• Adjustable mot	Power Electronics	
at 80 °C rated value220 Aat 80 °C rated value200 AOperating current at inside-delta circuit433 A• at 40 °C rated value433 A• at 50 °C rated value381 A• at 60 °C rated value381 A• at 60 °C rated value200 480 V• at at 80 °C rated value200 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit rated value10 %Relative negative tolerance of the operating voltage15 %Relative negative tolerance of the operating voltage15 %Relative negative tolerance of the operating voltage at inside-delta circuit10 %Porating power for three-phase motors132 kW• at 230 V at 40 °C rated value250 kW• at 400 V at 40 °C rated value60 Hz• at 400 V at 40 °C rated value60 Hz• at 400 V at 40 °C rated value60 Hz• at 400 V at at 80 °C rated value60 Hz• at 400 V at at 80 °C rated value60 Hz• at 400 V at 40 °C rated value60 Hz• at 400 V at 40 °C rated value60 Hz• at 400 V at 40 °C rated value60 Hz• at 400 V at 40 °C rated value60 Hz• at 400 V at 40 °C rated value60 Hz• at inside-delta circuit minimum100 A• at inside-delta circuit minimum173 A• at inside-delta circuit minimum173 A• at inside-delta at incuit minimum173 A		
at 80 ° Crated value 200 A Operating current at inside-delta circuit 433 A at 40 ° C rated value 433 A at 60 ° C rated value 381 A at 60 ° C rated value 360 A ot at 60 ° C rated value 360 A ot 80 ° C rated value 360 A ot 80 ° C rated value 360 A ot 80 ° C rated value 200 480 V at inside-delta circuit rated value 200 480 V Relative negative tolerance of the operating voltage 15 % Relative negative tolerance of the operating voltage 15 % Relative negative tolerance of the operating voltage at inside-delta circuit 10 % Relative negative tolerance of the operating voltage at inside-delta circuit 10 % operating power for three-phase motors 15 % e at 230 V at 40 °C rated value 12 kW e at 400 V at 40 °C rated value 12 kW e at 400 V at 40 °C rated value 250 kW e at 400 V at at 0°C rated value 60 Hz operating frequency 1 rated value 60 Hz Relative negative tolerance of the operating requency 10 % Adjustable motor current 100 Å e ratinium 100 Å nimimum 173 Å Minum load [%] 15 %; Relative to smallest settable le	• at 40 °C rated value	
Coperating current at inside-delta circuit 433 A • at 40 °C rated value 433 A • at 50 °C rated value 381 A • at 60 °C rated value 346 A Operating voltage 200 480 V • rated value 200 480 V • at inside-delta circuit rated value 200 480 V Relative negative tolerance of the operating voltage 15 % Relative negative tolerance of the operating voltage 15 % at inside-delta circuit 10 % Relative positive tolerance of the operating voltage at inside-delta circuit 15 % operating power for three-phase motors 12 kW • at 230 V at 40 °C rated value 132 kW • at 230 V at 40 °C rated value 132 kW • at 230 V at 40 °C rated value 132 kW • at 400 V at inside-delta circuit at 40 °C rated value 132 kW • at 400 V at 40 °C rated value 10 % • at 400 V at 40 °C rated value 10 % • at 400 V at 40 °C rated value 10 % • at 400 V at 40 °C rated value 10 % • at 400 V at at 0°C rated value 10 % • at 400 V at inside-delta circuit at 40 °C rated 10 %	• at 50 °C rated value	220 A
• at 40 °C rated value433 A• at 50 °C rated value381 A• at 60 °C rated value346 AOperating voltage200 480 V• rated value200 480 V• at inside-delta circuit rated value200 480 VRelative negative tolerance of the operating voltage15 %Relative positive tolerance of the operating voltage115 %at inside-delta circuit10 %Relative positive tolerance of the operating voltage15 %at inside-delta circuit10 %Relative positive tolerance of the operating voltage15 %at 230 V at 40 °C rated value75 kW• at 230 V at 40 °C rated value132 kW• at 230 V at 40 °C rated value50 Hz• at 400 V 3 t inside-delta circuit at 40 °C rated132 kW• at 400 V at inside-delta circuit at 40 °C rated50 HzOperating frequency 1 rated value50 Hz• at 400 V at inside-delta circuit at 40 °C rated50 HzOperating frequency 2 rated value60 HzRelative negative tolerance of the operating frequency10 %Relative negative tolerance of the operating frequency10 %<	• at 60 °C rated value	200 A
at 80 °C rated value381 A• at 60 °C rated value346 AOperating voltage200 480 V• rated value200 480 V• at inside-delta circuit rated value200 480 VRelative negative tolerance of the operating voltage15 %Relative positive tolerance of the operating voltage10 %Relative negative tolerance of the operating voltage10 %Relative positive tolerance of the operating voltage at inside-delta circuit10 %Poperating power for three-phase motors10 %• at 230 V at 40 °C rated value75 kW• at 230 V at 40 °C rated value132 kW• at 400 V at 40 °C rated value50 HzOperating frequency 1 rated value60 HzRelative positive tolerance of the operating frequency10 %Adjustable motor current10 %• minimum100 A• at inside-delta circuit at 40 °C rated10 %Poperating frequency 1 rated value50 HzOperating frequency 2 rated value60 HzRelative positive tolerance of the operating frequency10 %Adjustable motor current100 A• ninimum100 A• at inside-delta circuit minimum173 AMinimum load [%]15 %; Relative to smallest settable lePower loss [W] for rated value of the current at AC15 %; Relative to smallest settable le	Operating current at inside-delta circuit	
a dt 60 °C rated value346 AOperating voltage • rated value200 480 V• at inside-delta circuit rated value200 480 VRelative negative tolerance of the operating voltage at inside-delta circuit rated value10 %Relative negative tolerance of the operating voltage at inside-delta circuit10 %Relative negative tolerance of the operating voltage at inside-delta circuit10 %Relative positive tolerance of the operating voltage at inside-delta circuit10 %Operating power for three-phase motor • at 230 V at 40 °C rated value75 kW• at 230 V at 40 °C rated value132 kW• at 400 V at 40 °C rated value132 kW• at 400 V at 40 °C rated value50 HzOperating frequency 1 rated value50 HzOperating frequency 2 rated value10 %Relative positive tolerance of the operating frequency10 %Adjustable motor current • minimum • at inside-delta circuit at 40 °C rated value10 %Inside-delta circuit at 40 °C rated value10 %Operating frequency 1 rated value50 HzOperating frequency 2 rated value10 %Relative positive tolerance of the operating frequency10 %Relative negative tolerance of the operating frequency10 %Adjustable motor current • minimum • at inside-delta circuit minimum100 A• at inside-delta circuit minimum173 AMinimum load [%]15 %; Relative to smallest settable le	• at 40 °C rated value	433 A
Description Construction 0 perating voltage 200 480 V • rated value 200 480 V • at inside-delta circuit rated value 200 480 V Relative negative tolerance of the operating voltage -15 % Relative negative tolerance of the operating voltage at inside-delta circuit -15 % Relative positive tolerance of the operating voltage at inside-delta circuit -15 % Operating power for three-phase motors - • at 230 V at 40 °C rated value 75 kW • at 230 V at inside-delta circuit at 40 °C rated value 132 kW • at 400 V at inside-delta circuit at 40 °C rated value 250 kW • at 400 V at inside-delta circuit at 40 °C rated value 50 Hz Operating frequency 1 rated value 60 Hz Relative negative tolerance of the operating frequency - Rela	● at 50 °C rated value	381 A
• rated value200 480 V• at inside-delta circuit rated value200 480 VRelative negative tolerance of the operating voltage at inside-delta circuit-15 %Relative negative tolerance of the operating voltage at inside-delta circuit-15 %Relative nositive tolerance of the operating voltage at inside-delta circuit-10 %Relative nositive tolerance of the operating voltage at inside-delta circuit-10 %Relative nositive tolerance of the operating voltage at inside-delta circuit10 %• at 230 V at 40 °C rated value • at 230 V at 40 °C rated value75 kW• at 240 V at 40 °C rated value132 kW• at 400 V at 40 °C rated value250 kW• at 400 V at inside-delta circuit at 40 °C rated value250 kW• at 400 V at inside-delta circuit at 40 °C rated value10 %Relative nogative tolerance of the operating requency10 %Relative nogative tolerance of the operating trated value10 %Operating frequency 1 rated value • at inside-delta circuit at 40 °C rated value10 %Relative nogative tolerance of the operating requency10 %Relative nogative tolerance of the operating trated value10 %Adjustable motor current • minimum • at inside-delta circuit minimum100 A• at inside-delta circuit minimum173 AMinimum load [%]15 %; Relative to smallest settable lePower loss [W] for rated value of the current at AC15 %; Relative to smallest settable le	• at 60 °C rated value	346 A
• at inside-delta circuit rated value200 480 VRelative negative tolerance of the operating voltage at inside-delta circuit-15 %Relative positive tolerance of the operating voltage at inside-delta circuit10 %Relative positive tolerance of the operating voltage at inside-delta circuit-15 %Relative positive tolerance of the operating voltage at inside-delta circuit10 %Relative positive tolerance of the operating voltage at inside-delta circuit10 %Poperating power for three-phase motors • at 230 V at 40 °C rated value value75 kW• at 230 V at 40 °C rated value value132 kW• at 400 V at 40 °C rated value value132 kW• at 400 V at 40 °C rated value value50 HzOperating frequency 1 rated value value50 HzOperating frequency 2 rated value frequency10 %Relative positive tolerance of the operating frequency at inside-delta circuit at 40 °C rated value10 %Operating frequency 1 rated value to at inside-delta circuit at 40 °C rated value50 HzOperating frequency 2 rated value frequency10 %Relative positive tolerance of the operating frequency frequency10 %Relative positive tolerance of the operating frequency to inimum100 A• minimum • at inside-delta circuit minimum173 AMinimum load [%] Power loss [W] for rated value of the current at AC15 %; Relative to smallest settable le	Operating voltage	
Relative negative tolerance of the operating voltage -15 % Relative negative tolerance of the operating voltage 10 % Relative negative tolerance of the operating voltage at inside-delta circuit -15 % Relative positive tolerance of the operating voltage at inside-delta circuit -15 % Relative positive tolerance of the operating voltage at inside-delta circuit -10 % Operating power for three-phase motors - • at 230 V at 40 °C rated value 75 kW • at 230 V at 40 °C rated value 132 kW • at 400 V at 0°C rated value 132 kW • at 400 V at 0°C rated value 50 Hz Operating frequency 1 rated value 60 Hz Relative negative tolerance of the operating frequency 10 % Relative negative tolerance of the operating frequency 10 % Relative negative tolerance of the operating frequency 10 % Relative negative tolerance of the operating frequency 10 % Relative negative tolerance of the operating frequency 10 % Relative negative tolerance of the operating frequency 10 % Relative negative tolerance of the operating frequency 10 % Adjustable motor current 100 A	rated value	200 480 V
Relative positive tolerance of the operating voltage at inside-delta circuit 10 % Relative negative tolerance of the operating voltage at inside-delta circuit 10 % Relative positive tolerance of the operating voltage at inside-delta circuit 10 % Poprating power for three-phase motors 10 % • at 230 V at 40 °C rated value 75 kW • at 230 V at inside-delta circuit at 40 °C rated value 132 kW • at 400 V at 40 °C rated value 132 kW • at 400 V at inside-delta circuit at 40 °C rated value 250 kW • at 400 V at inside-delta circuit at 40 °C rated value 50 Hz Operating frequency 1 rated value 60 Hz Relative negative tolerance of the operating frequency 10 % Relative negative tolerance of the operating frequency 10 % Relative negative tolerance of the operating frequency 10 % Relative negative tolerance of the operating frequency 10 % Relative positive tolerance of the operating frequency 10 % Adjustable motor current • minimum 100 A • at inside-delta circuit minimum 173 A Minimum load [%] 15 %; Relative to smallest settable le	 at inside-delta circuit rated value 	200 480 V
Relative negative tolerance of the operating voltage at inside-delta circuit -15 % Relative positive tolerance of the operating voltage at inside-delta circuit 10 % Relative positive tolerance of the operating voltage at inside-delta circuit 10 % Operating power for three-phase motors -15 kW • at 230 V at 40 °C rated value 75 kW • at 230 V at inside-delta circuit at 40 °C rated value 132 kW • at 400 V at 0 °C rated value 132 kW • at 400 V at of °C rated value 250 kW • at 400 V at inside-delta circuit at 40 °C rated value 250 kW • at 400 V at inside-delta circuit at 40 °C rated value 60 Hz Relative negative tolerance of the operating frequency 10 % Relative negative tolerance of the operating frequency 10 % Relative positive tolerance of the operating frequency 10 % Relative positive tolerance of the operating frequency 10 % Relative positive tolerance of the operating frequency 100 A • minimum 100 A • at inside-delta circuit minimum 173 A Minimum load [%] 15 %; Relative to smallest settable le	Relative negative tolerance of the operating voltage	-15 %
at inside-delta circuitImage: constraint of the operating voltage at inside-delta circuitRelative positive tolerance of the operating voltage at inside-delta circuit10 %Operating power for three-phase motors-• at 230 V at 40 °C rated value75 kW• at 230 V at inside-delta circuit at 40 °C rated value132 kW• at 400 V at 40 °C rated value132 kW• at 400 V at 40 °C rated value132 kW• at 400 V at inside-delta circuit at 40 °C rated value250 kW• at 400 V at inside-delta circuit at 40 °C rated value50 HzOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 HzRelative negative tolerance of the operating frequency10 %Relative positive tolerance of the operating frequency10 %Adjustable motor current100 A• minimum100 A• at inside-delta circuit minimum15 %; Relative to smallest settable lePower loss [W] for rated value of the current at AC15 %; Relative to smallest settable le	Relative positive tolerance of the operating voltage	10 %
inside-delta circuit Image: Circuit circ		-15 %
• at 230 V at 40 °C rated value75 kW• at 230 V at inside-delta circuit at 40 °C rated value132 kW• at 400 V at 40 °C rated value132 kW• at 400 V at inside-delta circuit at 40 °C rated value250 kW• at 400 V at inside-delta circuit at 40 °C rated value50 HzOperating frequency 1 rated value60 HzRelative negative tolerance of the operating frequency-10 %Relative positive tolerance of the operating frequency100 %Adjustable motor current • minimum • at inside-delta circuit minimum100 AMinimu load [%]15 %; Relative to smallest settable lePower loss [W] for rated value of the current at AC50 %; Relative to smallest settable le		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 400 V at at 0 °C rated value at 400 V at inside-delta circuit at 0 °C rated value at 400 V at inside-delta circuit at 0 °C rated value 250 kW Operating frequency 1 rated value 50 Hz Operating frequency 2 rated value 60 Hz Relative negative tolerance of the operating frequency Relative positive tolerance of the operating frequency Relative positive tolerance of the operating frequency Adjustable motor current minimum at inside-delta circuit minimum 100 A at inside-delta circuit minimum 173 A Minimum load [%] Power loss [W] for rated value of the current at AC 	Operating power for three-phase motors	
value132 kW• at 400 V at 40 °C rated value132 kW• at 400 V at inside-delta circuit at 40 °C rated value250 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 HzRelative negative tolerance of the operating frequency-10 %Relative positive tolerance of the operating frequency10 %Adjustable motor current • minimum100 A• at inside-delta circuit minimum173 AMinimum load [%]15 %; Relative to smallest settable le	 at 230 V at 40 °C rated value 	75 kW
• at 400 V at inside-delta circuit at 40 °C rated value250 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 HzRelative negative tolerance of the operating frequency-10 %Relative positive tolerance of the operating frequency10 %Adjustable motor current • minimum • at inside-delta circuit minimum100 AMinimum load [%]15 %; Relative to smallest settable lePower loss [W] for rated value of the current at AC		132 kW
value50 HzOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 HzRelative negative tolerance of the operating frequency-10 %Relative positive tolerance of the operating frequency10 %Adjustable motor current • minimum • at inside-delta circuit minimum100 AMinimum load [%]15 %; Relative to smallest settable lePower loss [W] for rated value of the current at AC15 %; Relative to smallest settable le	 at 400 V at 40 °C rated value 	132 kW
Operating frequency 2 rated value60 HzRelative negative tolerance of the operating frequency-10 %Relative positive tolerance of the operating frequency10 %Adjustable motor current • minimum • at inside-delta circuit minimum100 AMinimum load [%]15 %; Relative to smallest settable lePower loss [W] for rated value of the current at AC		250 kW
Relative negative tolerance of the operating frequency -10 % Relative positive tolerance of the operating frequency 10 % Adjustable motor current 10 % • minimum 100 A • at inside-delta circuit minimum 173 A Minimum load [%] 15 %; Relative to smallest settable le Power loss [W] for rated value of the current at AC -10 %	Operating frequency 1 rated value	50 Hz
frequencyImage: constraint of the operating frequency10 %Adjustable motor current100 A• minimum100 A• at inside-delta circuit minimum173 AMinimum load [%]15 %; Relative to smallest settable lePower loss [W] for rated value of the current at ACImage: constraint of the current at AC	Operating frequency 2 rated value	60 Hz
Adjustable motor current - • minimum 100 A • at inside-delta circuit minimum 173 A Minimum load [%] 15 %; Relative to smallest settable le Power loss [W] for rated value of the current at AC -		-10 %
• minimum 100 A • at inside-delta circuit minimum 173 A Minimum load [%] 15 %; Relative to smallest settable le Power loss [W] for rated value of the current at AC		10 %
• at inside-delta circuit minimum 173 A 15 %; Relative to smallest settable le Power loss [W] for rated value of the current at AC	Adjustable motor current	
Minimum load [%] 15 %; Relative to smallest settable le Power loss [W] for rated value of the current at AC	• minimum	100 A
Power loss [W] for rated value of the current at AC	• at inside-delta circuit minimum	173 A
	Minimum load [%]	15 %; Relative to smallest settable le
• at 40 °C to power-up 87 W	Power loss [W] for rated value of the current at AC	
	● at 40 °C to power-up	87 W

● at 50 °C to power-up	78 W
● at 60 °C to power-up	72 W
Control circuit/ Control Type of voltage of the control supply voltage	AC
	AC
Control supply voltage at AC	110 050.1/
● at 50 Hz	110 250 V
• at 60 Hz	110 250 V
Relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
Relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
Relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %
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	30 mA
Holding current in the by-pass mode operating rated value	100 mA
Starting current at close of by-pass contact maximum	2.2 A
Inrush current peak at connect of control supply voltage maximum	12.2 A
Duration of inrush current peak at connect of control supply voltage	2.2 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	1
Number of digital outputs	3
 not parameterizable 	2
Digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
Number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick
Number of analog outputs	0
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

Mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
Mounting type	screw fixing
Height	393 mm
Width	210 mm
Depth	203 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
Installation altitude at height above sea level	5 000 m; Derating as of 1000 m, see catalog
maximum	
Weight without packaging	9.9 kg
Connections/Terminals	
Type of electrical connection	
 for main current circuit 	screw-type terminals
for control circuit	spring-loaded terminals
Type of connectable conductor cross-sections	
 for DIN cable lug for main contacts stranded 	2x (50 240 mm²)
 for DIN cable lug for main contacts finely stranded 	2x (70 240 mm²)
Type of connectable conductor cross-sections at AWG conductors for control circuit	
• solid	2x (24 16)
 finely stranded with core end processing 	2x (24 16)
Wire length	
 between soft starter and motor maximum 	800 m
 at the digital inputs at AC maximum 	100 m
mbient conditions	
Ambient temperature	
• during operation	-25 +60 °C
 during storage and transport 	-40 +80 °C
Environmental category	
• during operation acc. 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 acc. to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
• during transport acc. to IEC 60721	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference acc. to IEC 60947-1	CISPR11, ambience A (industrial sector)

Communication module is supported	
 PROFINET standard 	Yes
Modbus TCP	Yes
• PROFIBUS	Yes
UL/CSA ratings	
Manufacturer's article number	
 of the fuse usable up to 575/600 V according to UL 	Type: Class J / L, max. 800 A; Standard fault, Iq = 18 kA
 of the fuse usable at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 800 A
Operating power [hp] for three-phase motors	
• at 200/208 V at 50 °C rated value	60 hp
• at 220/230 V at 50 °C rated value	75 hp
• at 460/480 V at 50 °C rated value	150 hp
 at 200/208 V at inside-delta circuit at 50 °C rated value 	125 hp
 at 220/230 V at inside-delta circuit at 50 °C rated value 	150 hp
 at 460/480 V at inside-delta circuit at 50 °C rated value 	300 hp
Contact rating of auxiliary contacts according to UL	R300-B300
General Product Approval	Declaration of other Conformity
	Confirmation EG-Konf.

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5244-2TC14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5244-2TC14

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5244-2TC14

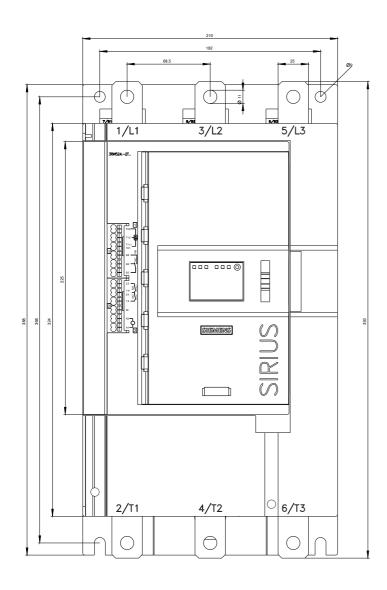
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5244-2TC14&lang=en

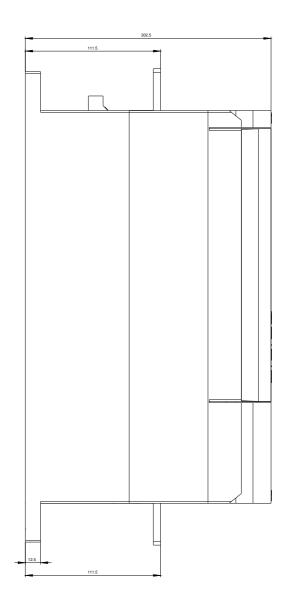
Characteristic: Tripping characteristics, I²t, Let-through current

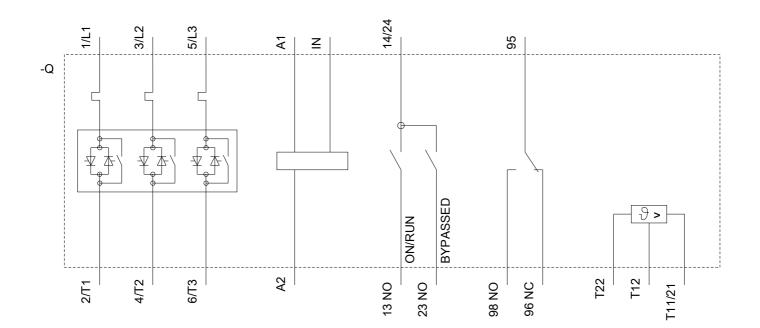
https://support.industry.siemens.com/cs/ww/en/ps/3RW5244-2TC14/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5244-2TC14&objecttype=14&gridview=view1







last modified:

07/04/2018