# **SIEMENS**

product brand name

product category product designation

Data sheet 3RW5516-1HA05

SIRIUS

Soft starter

Hybrid switching devices



SIRIUS soft starter 200-600 V 32 A, 24 V AC/DC Screw terminals





p. caact accigiiancii	
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
• of communication module PROFINET high-feature usable	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>	3RV2032-4VA10; Type of coordination 1, lq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3RV2032-4VA10; Type of coordination 1, lq = 10 kA, CLASS 10
• of circuit breaker usable at 400 V at inside-delta circuit	3RV2032-4JA10; Type of coordination 1, Iq = 65 kA, CLASS 10
• of circuit breaker usable at 500 V at inside-delta circuit	3RV2032-4JA10; Type of coordination 1, Iq = 10 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3824-6; Type of coordination 1, Iq = 65 kA
• of the gG fuse usable at inside-delta circuit up to 500 V	3NA3824-6; 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>	3NE1818-0; 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>	3NE8022-1; Type of coordination 2, Iq = 65 kA
eneral 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	5 (based on IEC 61557-12)
certificate of suitability	
CE marking	Yes
UL approval	Yes

- CCA approval	Van
CSA approval	Yes
product component	Van
HMI-High Feature	Yes
is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
buffering time in the event of power failure	
for main current circuit	100 ms
for control circuit	100 ms
idle time adjustable	0 255 s
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 600 V
service factor	1.15
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
between main and auxiliary circuit	600 V; does not apply for thermistor connection
shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
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
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3 Diboron trioxide - 1303-86-2
product function	
<ul><li>ramp-up (soft starting)</li></ul>	Yes
<ul><li>ramp-down (soft stop)</li></ul>	Yes
<ul><li>breakaway pulse</li></ul>	Yes
<ul> <li>adjustable current limitation</li> </ul>	Yes
<ul> <li>creep speed in both directions of rotation</li> </ul>	Yes
pump ramp down	Yes
DC braking	Yes
motor heating	Yes
<ul> <li>slave pointer function</li> </ul>	Yes
• trace function	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
• inside-delta circuit	Yes
• 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	
• via software parameterizable	Yes
via software configurable	Yes Yes
<ul><li>via software configurable</li><li>screw terminal</li></ul>	Yes
• via software configurable	Yes Yes
<ul><li>via software configurable</li><li>screw terminal</li><li>spring-loaded terminal</li></ul>	Yes Yes No Yes; in connection with the PROFINET Standard and PROFINET High-Feature

voltage ramp	Yes
• torque control	Yes
<ul> <li>combined braking</li> </ul>	Yes
analog output	Yes; 4 20 mA (default) / 0 10 V
<ul> <li>programmable control inputs/outputs</li> </ul>	Yes
<ul> <li>condition monitoring</li> </ul>	Yes
automatic parameterisation	Yes
application wizards	Yes
alternative run-down	Yes
emergency operation mode	Yes
reversing operation	Yes
soft starting at heavy starting conditions	Yes
Power Electronics	
operational current	
• at 40 °C rated value	32 A
at 40 °C rated value minimum	6.5 A
<ul> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul>	28.4 A 26 A
	20 /
operational current at inside-delta circuit	55 A A
• at 40 °C rated value	55.4 A
• at 50 °C rated value	49 A
• at 60 °C rated value	45 A
operating voltage	000 0001/
• rated value	200 600 V
at inside-delta circuit rated value	200 600 V
relative negative tolerance of the operating voltage	-15 %
relative positive 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	10 %
operating power for 3-phase motors	
at 230 V at 40 °C rated value	7.5 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	15 kW
at 400 V at 40 °C rated value	15 kW
at 400 V at inside-delta circuit at 40 °C rated value	22 kW
at 500 V at 40 °C rated value	18.5 kW
at 500 V at 140 C rated value     at 500 V at inside-delta circuit at 40 °C rated value	30 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
	10 %
relative positive tolerance of the operating frequency	
minimum load [%]	10 %; Relative to set le
power loss [W] for rated value of the current at AC	40 W
• at 40 °C after startup	10 W
• at 50 °C after startup	9 W
• at 60 °C after startup	8 W
power loss [W] at AC at current limitation 350 %	540 W
• at 40 °C during startup	519 W
• at 50 °C during startup	437 W
at 60 °C during startup	386 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/DC
control supply voltage at AC	
• at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at	-20 %

AC at 60 Hz	
relative positive tolerance of the control supply voltage at	20 %
AC at 60 Hz	<u> </u>
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 voltage at DC	
rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	420 mA
holding current in bypass operation rated value	820 mA
inrush current by closing the bypass contacts maximum	0.91 A
inrush current peak at application of control supply voltage maximum	7.5 A
duration of inrush current peak at application of control supply voltage	20 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
<ul> <li>number of digital outputs parameterizable</li> </ul>	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	
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
fastening method	screw fixing
height	275 mm
width	170 mm
depth	152 mm
required spacing with side-by-side mounting	
• forwards	10 mm
• backwards	0 mm
• upwards	100 mm
<ul><li>downwards</li></ul>	75 mm
• at the side	5 mm
weight without packaging	2.6 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
for control circuit	screw-type terminals
wire length for thermistor connection	
• with conductor cross-section = 0.5 mm² maximum	50 m
• with conductor cross-section = 1.5 mm² maximum	150 m
• with conductor cross-section = 2.5 mm² maximum	250 m
type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)
<ul> <li>for AWG cables for main current circuit solid</li> </ul>	2x (16 12), 2x (14 8)
- 1017 (VV C Cables for main current circuit solic	ΣΑ (10 ··· 12), ΣΑ (17 ··· 0)

supe of connectable conductor cross-sections  • for control circuit finely stranded with core end processing  • for control circuit finely stranded with core end processing  • for AVIC Cables for control circuit sholly stranded with core end processing  • for AVIC Cables for control circuit sholly stranded with core end processing  • for AVIC Cables for control circuit sholly  • between set starter and motor maximum  • at the digital inputs at DC maximum  Albert Conditions  restallation attitude at height above see level maximum  ambient temperature  • curring corporation arresport  • curring storage and transport  • curring storage according to IEC 60721  • during storage according to IEC 60721  • Endocumental foolgring  • Forther Fight-during  • PROFINET standard  • Report standard  • PROFINET standard  • PROFINET standard  • PRO		
• for control circuit finely stranded with core and processing • for AVMC cables for control circuit solid  wire length • elicity of the process of starter and motor maximum • of the diptal inputs at DC maximum • all the diptal inputs at DC maximum 1000 in  Ambient conditions  ambient temperature • cluring operation • cluring storage and transport  - cluring storage and transport  - cluring storage and cransport  - cluring dorsage according to IEC 60721 • cluring dorsage according to IEC 60721 • cluring storage according t	type of connectable conductor cross-sections	
• for AWS cables for control circuit solid wire length • between soft starter and motor maximum • between soft starter and motor maximum  **Intelligible inputs at DC maximum  Ambient complication attitude at heggin above sea lavel maximum  **Intelligible inputs at DC maximum  **Intelligible inputs at Intelligible inputs at I	<ul> <li>for control circuit solid</li> </ul>	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
wire length	<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
Netween soft starter and motor maximum     and the digital projects ID C maximum     motilation attitude at height above sea level maximum     ambient temperature     during operation     during storage and transport     during operation     during storage and transport     during storage and transport     during storage according to IEC 60721     during stor	for AWG cables for control circuit solid	1x (20 12), 2x (20 14)
### the digital impots at DC maximum  ### method conditions  ### met	wire length	
Installation altitude at height above sea level maximum  minimal temperature  - during operation  - during operation according to IEC 60721  - during operation according to IEC 60721  - during storage according to IEC 60721  - Environmental footoprint  - Sistemes Eco Profile (SEP)  - No  - PROFINET standard  - PROFINET standard  - PROFINET standard  - PROFINET standard  - PROFILE (SEP)  - Modbus RTU  - Modbus RTU  - Modbus RTU  - Modbus TCP  - Yes  - PROFILE (SEP)  - at 460480 V according to UL  - at 450480 V according to UL  - at 460480 V according to UL  - at 575600 V according to UL  - at 575600 V according to UL  - at 575600 V according to UL  - usable for Standard Faults a inside-detal circuit up to 575600 V according to UL  - usable for Standard Faults a inside-detal circuit up to 575600 V according to UL  - usable for Standard Faults a inside-detal circuit up to 575600 V according to UL  - usable for Standard Faults a inside-detal circuit up to 575600 V according to UL  - usable for Standard Faults a inside-detal circuit up to 575600 V according to UL  - usable for Standard Faults a inside-detal circuit up to 575600 V according to UL  - usable for Standard Faults a inside-detal circuit up to 575600 V according to UL  - usable for Standard Faults a inside-detal circuit up to 575600 V according to UL  - usable for Standard Faults a inside-detal circuit up to 575600 V according to UL  - usable for Standard Faults a inside-detal	<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
installation altitude at height above sea level maximum amblent temperature • during peration • during storage and transport • during peration according to IEC 60721 • during peration according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during peration according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721  Environmental footprint  Silemens Eco Potile (SEP) ENC emitted interference  communication Protoco  communication Protocol  communicati	<ul> <li>at the digital inputs at DC maximum</li> </ul>	1 000 m
ambient temperature  • during persion  • during storage and transport  • during operation according to IEC 60721  • during operation according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  • PROFINET standard  • elicenterial standard faults  • during transport according to IEC 60947-4-2. Class A  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max.	Ambient conditions	
- during sportation - during storage and transport - during storage and transport - during storage and cording to IEC 80721 - during periation according to IEC 80721 - during storage according to IEC 80721 - expected according to IEC 80721 - property according to IEC 80721 - propert	installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
environmental category  of uning operation according to IEC 60721  of uning operation according to IEC 60721  of uning storage according to IEC 60721  of the storage storag	ambient temperature	
environmental category  • during operation according to IEC 60721  • during preparation according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  Environmental footprint  Silemens Eco Profile (SEP)  ENC emitted interference  Communication module is supported  • PROFINET standard  • PROFINET standard  • PROFINET high-feature  • PROFINET high-feature  • Modbus RTU  • Modbus TDP  • PROFIBUS  UIUCSA ratings  manufacturer's article number  • of circuit breaker usable for Standard Faults  — al 460480 V according to UL  — 60/480 V a carording to UL  — 60/480 V a carording to UL  — 60/480 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  • of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Figh Faults up to 575/600 V according to UL  — at 300/2	during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
during operation according to IEC 60721     during storage according to IEC 60721     during transport according to IEC 60721     during transport according to IEC 60721     during transport according to IEC 60721     Siemens Export (according to IEC 60947-4-2: Class A Communication module is supported     PROFINET standard     PROFINED     PROFINED      DEVELOPMENT STANDARD     PROFINED      DEVELOPMENT STANDARD     DEVELOPM	during storage and transport	-25 +80 °C
eduring storage according to IEC 60721  • during transport according to IEC 60721  • during transport according to IEC 60721  • during transport according to IEC 60721  Environmental footprint  Siemens Eco Profile (SEP)  EMC emitted interference  communication module is supported  • PROFINET standard  • PROFINET  • at 800480 V at inside-delta circuit according to UL  • at 875/800 V at inside-delta circuit according to UL  • at 800480 V at 50 °C rated value  • at 200200 V according to UL  • at 875/800 V at 50 °C rated value  • at 875/800 V at 50 °C rated value  • at 875/800 V at inside-delta circuit at 50 °C rated value  • at 875/800 V at inside-delta circuit at 50 °C rated value  • at 875/800	environmental category	
e during transport according to IEC 60721 (2K, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  Environmental footprint  Siemens Eco Profile (SEP)  EMC emitted interference  acc. to IEC 60947-4-2: Class A  Communication module is supported  PROFINET standard  PROFINET standard  PROFINET standard  PROFINET high-feature  PROFINET by Andrew (Profile (SEP)  Modbus RTU  Modbus	<ul> <li>during operation according to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
Environmental footprint  Siemens Eco Profile (SEP)  EMC omitted Interference  communication module is supported  PROFINET standard  PROFINET standard  PROFINET standard  PROFINET high-feature  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  Ves  UL/CSA ratings  manufacturer's article number  of circuit breaker usable for Standard Faults  — at 460/480 V at coording to UL  — at 690/480 V at coording to UL  — at 690/480 V at coording to UL  — at 690/480 V at inside-delta circuit according to UL  — at 575/600 V according to UL  — at 575/600 V at Inside-delta circuit according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flandard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flandard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flandard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flandard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flandard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flandard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flandard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flandard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flandard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flandard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flandard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flandard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flandard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flandard Faults at maste-delta circuit up to 575/600 V acc	<ul> <li>during storage according to IEC 60721</li> </ul>	
Environmental footprint  Siemens Eco Profile (SEP)  EMC emitted interference  communication module is supported  PROFINET standard  PROFINET standard  PROFINET high-feature  EtherNet/IP  Modbus RTU  Modbus RTU  Modbus TCP  PROFINES  PROFINES  Telefacture  of circuit breaker usable for Standard Faults  —at 460/480 V at inside-delta circuit according to UL  —at 690/480 V according to UL  —at 690/480 V at condidate delta circuit according to UL  —at 690/480 V at inside-delta circuit according to UL  —at 575/600 V according to UL  —at 575/600 V according to UL  —at 575/600 V at Inside-delta circuit according to UL  —at 575/600 V at Inside-delta circuit according to UL  —usable for Standard Faults up to 575/600 V according to UL  —usable for Standard Faults up to 575/600 V according to UL  —usable for Standard Faults up to 575/600 V according to UL  —usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  —usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  —usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  —usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  —usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  —usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  —usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  —usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  —usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  —usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  —usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  —usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  —usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  —usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL	<ul> <li>during transport according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
Siemens Eco Profile (SEP)  EMC emitted interference  acc. to IEC 60947-4-2: Class A  Communication module is supported  PROFINET standard  No  Modubus TCP  PROFINED  PROFINED  Ves  PROFINED  Ves  PROFINED  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; kq = 5 kA  Siemens type: 3RV27		
EMC emitted Interference  communication/Protocol  communication module is supported  PROFINET standard  PROFINET standard  PROFINET standard  PROFINET standard  PROFINET standard  PROFINET standard  PROFINET with-feature  No  Modbus RTU  Modbus RTU  PROFIBLS  Wes  PROFIBLS  WES  PROFIBLS  WILCGSA ratings  manufacturer's article number  of circuit breaker usable for Standard Faults  - at 460/480 V according to UL  - 60/480 V at inside-delta circuit according to UL  - at 460/480 V at inside-delta circuit according to UL  - at 575/6000 V according to UL  - at 575/6000 V at inside-delta circuit according to UL  - at 575/6000 V at inside-delta circuit according to UL  - at 575/6000 V at inside-delta circuit according to UL  - usable for Standard Faults up to 575/600 V according to UL  - usable for Standard Faults up to 575/600 V according to UL  - usable for Standard Faults up to 575/600 V according to UL  - usable for Standard Faults up to 575/600 V according to UL  - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  - usable for Ingh Faults up to 575/600 V according to UL  - usable for Ingh Faults up to 575/600 V according to UL  - usable for Ingh Faults up to 575/600 V according to UL  - usable for Ingh Faults up to 575/600 V according to UL  - usable for Ingh Faults at inside-delta circuit up to 575/600 V according to UL  - usable for Ingh Faults at inside-delta circuit up to 575/600 V according to UL  - usable for Ingh Faults at inside-delta circuit up to 575/600 V according to UL  - usable for High Faults at inside-delta circuit up to 575/600 V according to UL  - usable for High Faults at inside-delta circuit up to 575/600 V according to UL  - usable for High Faults at inside-delta circuit up to 575/600 V according to UL  - usable for High Faults at inside-delta circuit up to 575/600 V according to UL  - usable for High Faults at a finited circuit up to 575/600 V at inside-delta circuit at 50		Siemens EcoTech
Communication / Protocol  communication module is supported  PROFINET standard  PROFINET standard  PROFINET high-feature  No  Modbus RTU  Modbus RTU  Modbus TCP  PROFIBUS  PROFIBUS  Ves  PROFIBUS  Tyes  PROFIBUS  Tyes  PROFIBUS  Tyes  PROFIBUS  TO clircuit breaker usable for Standard Faults  —at 460/480 V according to UL  —at 460/480 V according to UL  —at 460/480 V at inside-delta circuit according to UL  —at 575/600 V at inside-delta circuit according to UL  —at 575/600 V at inside-delta circuit according to UL  —at 575/600 V at inside-delta circuit according to UL  —at 575/600 V at inside-delta circuit according to UL  —at 575/600 V at inside-delta circuit according to UL  —at 575/600 V at inside-delta circuit according to UL  —at 575/600 V at inside-delta circuit according to UL  —at 575/600 V at inside-delta circuit according to UL  —at 575/600 V at inside-delta circuit according to UL  —at 575/600 V at inside-delta circuit according to UL  —at 575/600 V at inside-delta circuit according to UL  —at 575/600 V at inside-delta circuit according to UL  —at 575/600 V at inside-delta circuit according to UL  —at 575/600 V at inside-delta circuit according to UL  —usable for Standard Faults up to 575/600 V according to UL  —usable for Standard Faults up to 575/600 V according to UL  —usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  —usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  —usable for Standard Faults at inside-delta circuit up to 575/600 V at inside-delta circuit up to 575/600 V at inside-delta circuit at 50 °C rated value  at 200/208 V at 50 °C rated value  at 200/208 V at 50 °C rated value  at 460/480 V at inside-delta circuit at 50 °C rated value  at 460/480 V at inside-delta circuit at 50 °C rated value  at 460/480 V at inside-delta circuit at 50 °C rated value  at 460/480 V at inside-delta circuit at 50 °C rated value  at 460/480 V at inside-delta circuit at 50 °C rated value  at 460/480 V at inside-delta circuit at 50 °C rated val	·	acc. to IEC 60947-4-2: Class A
emmunication module is supported  PROFINET standard PROFINET sigh-feature No No No Nodobus RTU No No No Nobus RTU No		
PROFINET standard PROFINET standard PROFINET standard PROFINET standard PROFINET standard No Modbus RTU Modbus RTU No PROFIBUS ProFIBUS  Wes ProFIBUS  manufacturer's article number  of circuit breaker usable for Standard Faults — at 460/480 V according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA S	communication module is supported	
PROFINET high-feature EtherNet/IP No No No No Modbus RTU No Modbus TCP PROFIBUS Yes  Ves  Ves  Ves  Ves  Ves  Ves  Ves		Yes
EtherNet/IP  Modbus TCP  PROFIBUS  Modbus TCP  PROFIBUS  Yes  MUCGSA ratings  manufacture's article number  of circuit breaker usable for Standard Faults  —at 460/480 V according to UL  —at 460/480 V according to UL  —at 460/480 V at inside-delta circuit according to UL  —at 460/480 V at inside-delta circuit according to UL  —at 575/600 V according to UL  —at 575/600 V at inside-delta circuit according to UL  —at 575/600 V at inside-delta circuit according to UL  —at 575/600 V at inside-delta circuit according to UL  —at 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 at inside-delta circuit up to 575/600 V according to UL  —usable for High Faults at inside-delta circuit up to 575/600 V according to UL  —usable for High Faults at inside-delta circuit up to 575/600 V according to UL  —usable for High Faults at inside-delta circuit up to 575/600 V according to UL  —usable for High Faults at inside-delta circuit up to 575/600 V according to UL  —usable for High Faults at inside-delta circuit up to 575/600 V according to UL  —usable for High Faults at inside-delta circuit up to 575/600 V according to UL  —usable for High Faults at inside-delta circuit up to 575/600 V according to UL  —usable for High Faults at inside-delta circuit up to 575/600 V according to UL  —usable for High Faults at inside-delta circuit up to 575/600 V according to UL  —usable for High Faults at inside-delta circuit up to 575/600 V according to UL  —usable for High Faults at inside-delta circuit up to 575/600 V accordin		
Modbus RTU  Modbus TCP  PROFIBUS  Wes  UL/CSA ratings  manufacturer's article number  of circuit breaker usable for Standard Faults  — at 460/480 V according to UL  — 60/480 V according to UL  — at 460/480 V at inside-delta circuit according to UL  — at 575/600 V at conding to UL  — of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V at 50 °C rated value  • at 220/208 V at 50 °C rated value  • at 220/208 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at insid	-	
Modbus TCP PROFIBUS Pres  Pres  UL/CSA ratings  manufacturer's article number  of circuit breaker usable for Standard Faults  - at 460/480 V according to UL - at 460/480 V at inside-delta circuit according to UL - at 460/480 V at inside-delta circuit according to UL - at 575/600 V at inside-delta circuit according to UL - at 575/600 V at inside-delta circuit according to UL - at 575/600 V at inside-delta circuit according to UL - at 575/600 V at inside-delta circuit according to UL - at 575/600 V at inside-delta circuit according to UL - at 575/600 V at inside-delta circuit according to UL - at 575/600 V at inside-delta circuit according to UL - at 575/600 V at inside-delta circuit according to UL - usable for Fligh Faults up to 575/600 V according to UL - usable for Standard Faults up to 575/600 V according to UL - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for Or ated value - at 220/230 V at inside-delta circuit 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 675/600 V according to UL - at 575/600 V		
PROFIBUS  ULCSA ratings  manufacturer's article number  of circuit breaker usable for Standard Faults  — at 460/480 V according to UL  — at 460/480 V a corording to UL  — 60/480 V according to UL  — 60/480 V at inside-delta circuit according to UL  — at 575/600 V according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit 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 320/208 V at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at 50 °C rated value  • at 575/600 V at 50 °C rated value  • at 575/600 V at 50 °C rated value  • at 575/600 V at 50 °C rated value  • at 575/600 V at 50 °C rated value  • at 575/600 V at 50 °C rated value  • at 575/600 V at 50 °C rated value  • at 575/600 V at 50 °C rated value  • at 575/600 V at 50 °C rated value  • at 575/600 V at 50 °C rated value  • at 575/600 V at 50 °C rated value  • at 575/600 V at 50 °C rated value  • at 575/600 V		
manufacturer's article number  • of circuit breaker usable for Standard Faults  — at 460/480 V according to UL  — 60/480 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  • of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Fligh Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — standard Faults up to		
manufacturer's article number  • of circuit breaker usable for Standard Faults  — at 460/480 V according to UL  — at 460/480 V according to UL  — at 460/480 V val inside-delta circuit according to UL  — at 460/480 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit 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 at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — at 220/220 V at 50 °C rated value  • at 220/220 V at 50 °C rated value  • at 220/220 V at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit		
of circuit breaker usable for Standard Faults     — at 480/480 V according to UL     — 60/480 V according to UL     — at 480/480 V at inside-delta circuit according to UL     — at 480/480 V at inside-delta circuit according to UL     — 60/480 V at inside-delta circuit according to UL     — at 457/5600 V according to UL     — at 575/600 V according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V according to UL     — usable for Standard Faults up to 575/600 V according to UL     — usable for Standard Faults up to 575/600 V according to UL     — 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 at inside-delta circuit up to 575/600 V according to UL     — usable for High Faults at inside-delta circuit up to 575/600 V according to UL     — usable for High Faults at inside-delta circuit up to 575/600 V according to UL     — usable for High Faults at inside-delta circuit up to 575/600 V according to UL     — usable for High Faults at inside-delta circuit up to 575/600 V according to UL     — at 220/230 V at 50 °C rated value     at 460/480 V at 150 °C rated value     at 460/480 V at inside-delta circuit at 50 °C rated value     at 460/480 V at inside-delta circuit at 50 °C rated value     at 460/480 V at inside-delta circuit at 50 °C rated value     at 460/480 V at inside-delta circuit at 50 °C rated value     at 460/480 V at inside-delta circuit at 50 °C rated value     at 460/480 V at inside-delta circuit at 50 °C rated value     at 460/480 V at inside-delta circuit at 50 °C rated value     at 575/600 V according to UL     R300-B300     Electrical Safety     protection class IP on the front according to IEC 60529     Index for the first according to IEC 60529     Index for the first according to IEC 60529     Index for the first according to IEC 60529     Index		
- at 460/480 V according to UL - 60/480 V according to UL - 60/480 V at inside-delta circuit according to UL - 60/480 V at inside-delta circuit according to UL - 60/480 V at inside-delta circuit according to UL - 60/480 V at inside-delta circuit according to UL - 60/480 V at inside-delta circuit according to UL - 60/480 V at inside-delta circuit according to UL - 75/600 V at inside-delta circuit according to UL - 75/600 V at inside-delta circuit according to UL - 15/5/600 V at inside-delta circuit according to UL - 15/5/600 V at inside-delta circuit according to UL - 15/5/600 V at inside-delta circuit according to UL - 15/5/600 V at inside-delta circuit according to UL - 15/5/600 V at 50 °C rated value - 15/5/600 V at inside-delta circuit at 50 °C rated value - 15/5/600 V at inside-delta circuit at 50 °C rated value - 15/5/600 V at inside-delta circuit at 50 °C rated value - 15/5/600 V at inside-delta circuit at 50 °C rated value - 15/5/600 V at inside-delta circuit at 50 °C rated value - 15/5/600 V at inside-delta circuit at 50 °C rated value - 15/5/600 V at inside-delta circuit at 50		
		Siemens tyne: 3RV2742 max 70 A or 3VA51 max 100 A: Ig = 5 kA
- at 460/480 V at inside-delta circuit according to UL - 60/480 V at inside-delta circuit according to UL - at 575/600 V according to UL - 75/600 V at inside-delta circuit according to UL - 75/600 V at inside-delta circuit according to UL - 75/600 V at inside-delta circuit according to UL - 75/600 V at inside-delta circuit according to UL - 75/600 V at inside-delta circuit according to UL - 80 of the fuse - 90 usable for Standard Faults up to 575/600 V according to UL - 90 usable for Standard Faults up to 575/600 V according to UL - 90 usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL - 90 usable for High Faults at inside-delta circuit up to 575/600 V according to UL - 90 usable for High Faults at inside-delta circuit up to 575/600 V according to UL - 90 usable for High Faults at inside-delta circuit up to 575/600 V according to UL - 90 usable for High Faults at inside-delta circuit up to 575/600 V according to UL - 90 usable for High Faults at inside-delta circuit up to 575/600 V according to UL - 90 usable for High Faults at inside-delta circuit up to 575/600 V according to UL - 90 usable for High Faults at inside-delta circuit up to 575/600 V according to UL - 90 usable for High Faults at inside-delta circuit up to 575/600 V according to UL - 90 usable for High Faults at inside-delta circuit at 50 °C rated value - 90 at 220/230 V at 50 °C rated value - 91 at 200/208 V at inside-delta circuit at 50 °C rated value - 91 at 200/208 V at inside-delta circuit at 50 °C rated value - 91 at 460/480 V at inside-delta circuit at 50 °C rated value - 91 at 460/480 V at inside-delta circuit at 50 °C rated value - 91 at 375/600 V at inside-delta circuit at 50 °C rated value - 91 at 375/600 V at inside-delta circuit at 50 °C rated value - 91 at 300/400 V at inside-delta circuit at 50 °C rated value - 91 at 300/400 V at inside-delta circuit at 50 °C rated value - 91 at 300/400 V at inside-delta circuit at 50 °C rated value - 91 at 300/400 V at inside-delta circuit at 50 °C rated value - 91 at		
- 60/480 V at inside-delta circuit according to UL - at 575/600 V according to UL - 75/600 V at inside-delta circuit according to UL - at 575/600 V at inside-delta circuit according to UL - at 575/600 V at inside-delta circuit according to UL - at 575/600 V at inside-delta circuit 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 Standard Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for Grated value - at 200/208 V at 50 °C rated value - at 200/208 V at 50 °C rated value - at 200/208 V at inside-delta circuit at 50 °C rated value - at 200/208 V at inside-delta circuit at 50 °C rated value - at 460/480 V at inside-delta circuit at 50 °C rated value - at 460/480 V at inside-delta circuit at 50 °C rated value - at 460/480 V at inside-delta circuit at 50 °C rated value - at 460/480 V at inside-delta circuit at 50 °C rated value - at 460/480 V at inside-delta circuit at 50 °C rated value - at 575/600 V at inside-delta circuit at 50 °C rated value - at 60/480 V at inside-delta circuit at 50 °C rated value - at 60/480 V at inside-delta circuit at 50 °C rated value - at 60/480 V at inside-delta circuit at 50 °C rated value - at 60/480 V at inside-delta circuit at 50 °C rated value - at 60/480 V at inside-delta circuit at 50 °C rated value - at 60/480 V at inside-delta circuit at 50 °C rated value - at 60/480 V at inside-delta circuit at 50 °C rated value - at 60/480 V at inside-delta circuit at 50 °C rated value - at 60/480 V at inside-delta circuit at 50 °C rated value - at 60/480 V at inside-delta circuit at 50 °C rated value - at 60/480 V at inside-delta circuit a	· ·	
- at 575/600 V according to UL - 75/600 V at inside-delta circuit according to UL - at 575/600 V at inside-delta circuit according to UL - at 575/600 V at inside-delta circuit according to UL - at 575/600 V at inside-delta circuit according to UL - usable for Standard Faults up to 575/600 V according to UL - usable for Standard Faults up to 575/600 V according to UL - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit 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 460/480 V at 50 °C rated value at 460/480 V at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at 575/600 V at 5	· ·	
- 75/600 V at inside-delta circuit according to UL - at 575/600 V at inside-delta circuit according to UL - at 575/600 V at inside-delta circuit 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 Standard Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V at 50 °C rated value  at 200/208 V at 50 °C rated value  at 460/480 V at 50 °C rated value  at 460/480 V at inside-delta circuit at 50 °C rated value  at 220/230 V at inside-delta circuit at 50 °C rated value  at 575/600 V at inside-delta circuit at 50 °C rated value  at 575/600 V at inside-delta circuit at 50 °C rated value  at 575/600 V at inside-delta circuit at 50 °C rated value  at 575/600 V at inside-delta circuit at 50 °C rated value  at 575/600 V at inside-delta circuit at 50 °C rated value  at 575/600 V at inside-delta circuit at 50 °C rated value  at 575/600 V at inside-delta circuit at 50 °C rated value  at 575/600 V at inside-delta circuit at 50 °C rated value  at 575/600 V at inside-delta circuit at 50 °C rated value  at 575/600 V at inside-delta circuit at 50 °C rated value  at 575/600 V at inside-delta circuit at 50 °C rated value  at 575/600 V at inside-delta circuit at 50 °C rated value  at 575/600 V at inside-delta circuit at 50 °C rated value  at 575/600 V at inside-delta circuit at 50 °C rated value  at 575/600 V at	· ·	** · · · · · · · · · · · · · · · · · ·
- at 575/600 V at inside-delta circuit 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 Standard Faults at inside-delta circuit up to 575/600 V according to UL  - usable for High Faults at inside-delta circuit up to 575/600 V according to UL  - usable for High Faults at inside-delta circuit up to 575/600 V according to UL  - usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Operating power [hp] for 3-phase motors  • at 220/230 V at 50 °C rated value  • at 460/480 V at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 65/600 V at inside-delta circuit at 50 °C rated value  • at 60/480 V at inside-delta circuit at 50 °C rated value  • at 60/480 V at inside-delta circuit at 50 °C rated value  • at 60/480 V at inside-delta circuit at 50 °C rated value  • at 60/480 V at inside-delta circuit at 50 °C rated value  • at 60/480 V at inside-delta circuit at 50 °C rated value  • at 60/480 V at inside-delta circuit at 50 °C rated value  • at 60/480 V at inside-delta circuit at 50 °C rated value  • at 60/480 V at inside-delta circuit at 50 °C rated value  • at 60/480 V at inside-delta circuit at 50 °C rated value  • at 60/480 V at inside-delta circuit at 50 °C rated value  • at 60/480 V at inside-delta circuit at 50 °C rated value  • at 60/480 V at inside-delta circuit at 50 °C rated value  • at 60/480 V at inside-delta circuit at 50 °C rated value  • at 60/480 V at inside-delta circuit at 50 °C rated value  • at 60/480 V at inside-delta circuit at 60 °C rated value  • at 60/480 V at inside-delta circuit at 60 °C rated value  • at 60/480 V at inside-		
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 Standard Faults at inside-delta circuit up to 575/600 V according to UL.          — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL.          — usable for High Faults at inside-delta circuit up to 575/600 V according to UL.          — usable for High Faults at inside-delta circuit up to 575/600 V according to UL.          — usable for Bults at inside-delta circuit up to 575/600 V according to UL.	<u> </u>	**
- 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 Standard Faults at inside-delta circuit up to 575/600 V according to UL  - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  - usable for High Faults at inside-delta circuit up to 575/600 V according to UL  - usable for High Faults at inside-delta circuit up to 575/600 V according to UL  - usable for High Faults at inside-delta circuit up to 575/600 V according to UL  - usable for Taults at inside-delta circuit up to 575/600 V according to UL  - usable for High Faults at inside-delta circuit up to 575/600 V according to UL  - usable for High Faults at inside-delta circuit up to 575/600 V according to UL  - usable for High Faults at inside-delta circuit up to 575/600 V according to UL  - usable for High Faults at inside-delta circuit up to 575/600 V at 50 °C rated value  • at 220/230 V at 50 °C rated value  • at 220/230 V at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 675/600 V at inside-delta circuit at 50 °C rated value  • at 675/600 V at inside-delta circuit at 50 °C rated value  • at 675/600 V at inside-delta circuit at 50 °C rated value  • at 675/600 V at inside-delta circuit at 50 °C rated value  • at 675/600 V at inside-delta circuit at 50 °C rated value  • at 675/600 V at inside-delta circuit at 50 °C rated value  • at 675/600 V at inside-delta circuit at 50 °C	5	Siemens type. SRV2742, max. 70 A or SVAST, max. 100 A, iq = 5 kA
according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V at 50 °C rated value  10 type: Class J / L, max. 125 A; Iq = 100 kA  Type: Class J/ L, max. 125 A; Iq = 100 kA  10 type: Class J/ L, max. 125		Type: Class BK5 / K5 may 125 A. la = 5 kA
UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit 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 575/600 V at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 675/600 V at inside-delta circuit at 50 °C rated value • at 675/600 V at inside-delta circuit at 50 °C rated value • at 675/600 V at inside-delta circuit at 50 °C rated value • at 675/60	according to UL	
to 575/600 V according to UL  — usable for High Faults at inside-delta circuit 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 575/600 V at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 4575/600 V at inside-delta circuit at 50 °C rated value • at 575	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 575/600 V at 50 °C rated value  • at 200/208 V at 50 °C rated value  • at 575/600 V at 50 °C rated value  • at 200/208 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 575/600 V at inside-delta circuit at 50 °C rated value  • at 60/480 V at inside-delta circuit at 50 °C rated value  • at 200/230 V at inside-delta circuit at 50 °C rated value  • at 200/230 V at inside-delta circuit at 50 °C rated value  • at 200/230 V at inside-delta circuit at 50 °C rated value  • at 200/230 V at inside-delta circuit at 50 °C rated value  • at 200/230 V at inside-delta circuit at 50 °C rated value  • at 200/230 V at inside-delta circuit at 50 °C rated value  • at 200/230 V at inside-delta circuit at 50 °C rated value  • at 200/230 V	to 575/600 V according to UL	
<ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 575/600 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 575/600 V at inside-delta circuit at 50 °C rated value</li> <li>at 575/600 V at inside-delta circuit at 50 °C rated value</li> <li>at 575/600 V at inside-delta circuit at 50 °C rated value</li> <li>by R300-B300</li> <li>Electrical Safety</li> <li>protection class IP on the front according to IEC 60529</li> <li>finger-safe, for vertical contact from the front</li> </ul>	575/600 V according to UL	Type. Glass J / L, max. 125 A; Iq = 100 KA
<ul> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 575/600 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 575/600 V at inside-delta circuit at 50 °C rated value</li> <li>at 575/600 V at inside-delta circuit at 50 °C rated value</li> <li>at 575/600 V at inside-delta circuit at 50 °C rated value</li> <li>at 575/600 V at inside-delta circuit at 50 °C rated value</li> <li>by R300-B300</li> <li>Electrical Safety</li> <li>protection class IP on the front according to IEC 60529</li> <li>finger-safe, for vertical contact from the front</li> </ul>		7.5 ha
<ul> <li>at 460/480 V at 50 °C rated value</li> <li>at 575/600 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 575/600 V at inside-delta circuit at 50 °C rated value</li> <li>at 575/600 V at inside-delta circuit at 50 °C rated value</li> <li>by</li> <li>at 575/600 V at inside-delta circuit at 50 °C rated value</li> <li>by</li> <li>contact rating of auxiliary contacts according to UL</li> <li>R300-B300</li> <li>Electrical Safety</li> <li>protection class IP on the front according to IEC 60529</li> <li>finger-safe, for vertical contact from the front</li> </ul>		
<ul> <li>at 575/600 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 575/600 V at inside-delta circuit at 50 °C rated value</li> <li>at 575/600 V at inside-delta circuit at 50 °C rated value</li> <li>by</li> <li>contact rating of auxiliary contacts according to UL</li> <li>R300-B300</li> <li>Electrical Safety</li> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> <li>finger-safe, for vertical contact from the front</li> </ul>		
<ul> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 575/600 V at inside-delta circuit at 50 °C rated value</li> <li>at 575/600 V at inside-delta circuit at 50 °C rated value</li> <li>at 575/600 V at inside-delta circuit at 50 °C rated value</li> <li>by</li> <li>contact rating of auxiliary contacts according to UL</li> <li>R300-B300</li> <li>Electrical Safety</li> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> <li>finger-safe, for vertical contact from the front</li> </ul>		
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 575/600 V at inside-delta circuit at 50 °C rated value</li> <li>toutact rating of auxiliary contacts according to UL</li> <li>Electrical Safety</li> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> <li>finger-safe, for vertical contact from the front</li> </ul>		
<ul> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 575/600 V at inside-delta circuit at 50 °C rated value</li> <li>40 hp</li> <li>contact rating of auxiliary contacts according to UL</li> <li>Electrical Safety</li> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> <li>finger-safe, for vertical contact from the front</li> </ul>		·
at 575/600 V at inside-delta circuit at 50 °C rated value  contact rating of auxiliary contacts according to UL  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		
contact rating of auxiliary contacts according to UL  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		
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		
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		R300-B300
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	Electrical Safety	
	protection class IP on the front according to IEC 60529	IP20
ATEX		finger-safe, for vertical contact from the front
	ATEX	

Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1
PFHD with high demand rate according to IEC 61508 relating to ATEX	5E-7 1/h
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.008
hardware fault tolerance according to IEC 61508 relating to ATEX	0
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a
certificate of suitability	
• ATEX	Yes
• IECEx	Yes
<ul> <li>according to ATEX directive 2014/34/EU</li> </ul>	BVS 18 ATEX F 003 X
type of protection according to ATEX directive 2014/34/EU	II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]

## Approvals Certificates

#### **General Product Approval**







Confirmation





EMV

For use in hazardous locations

**Test Certificates** 

Marine / Shipping



<u>KC</u>







Type Test Certificates/Test Report



Marine / Shipping





LRS



Confirmation

other



**Environment** 





### **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=3RW5516-1HA05

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5516-1HA05}$ 

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5516-1HA05

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5516-1HA05&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

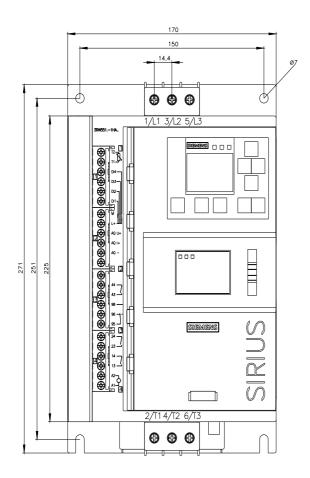
https://support.industry.siemens.com/cs/ww/en/ps/3RW5516-1HA05/char

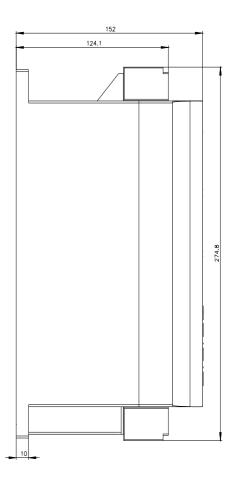
Characteristic: Installation altitude

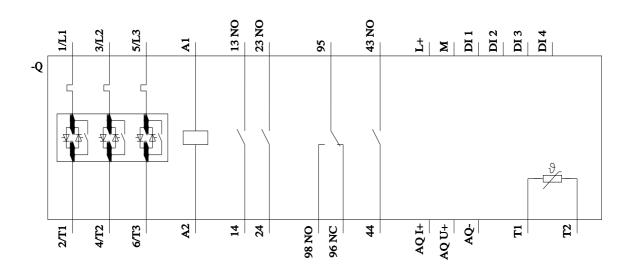
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5516-1HA05\&objecttype=14\&gridview=view1}$ 

Simulation Tool for Soft Starters (STS)

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







last modified: 6/6/2024 🖸

