SIEMENS

Data sheet

3RW5224-1AC04



SIRIUS soft starter 200-480 V 47 A, 24 V AC/DC Screw terminals Analog output

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW52
manufacturer's article number	
 of standard HMI module usable 	<u>3RW5980-0HS00</u>
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>
 of circuit breaker usable at 400 V 	3RV2032-4JA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4JA10; Type of coordination 1, Iq = 10 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4RA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4RA10; Type of coordination 1, Iq = 10 kA, CLASS 10
 of the gG fuse usable up to 690 V 	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
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1021-2; Type of coordination 2, Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8024-1; Type of coordination 2, Iq = 65 kA</u>

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General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
certificate of suitability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component	
HMI-High Feature	No
 is supported HMI-Standard 	Yes
 is supported HMI-High Feature 	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	
 for main current circuit 	100 ms
 for control circuit 	100 ms

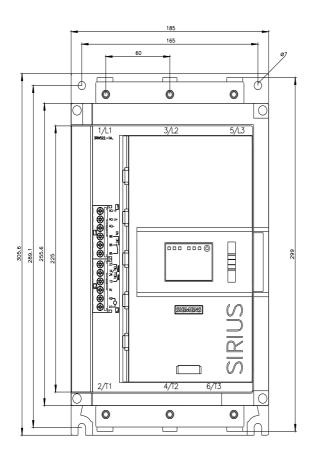
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 400 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
between main and auxiliary circuit	600 V
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
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
product function	
 ramp-up (soft starting) 	Yes
 ramp-down (soft stop) 	Yes
Soft Torque	Yes
adjustable current limitation	Yes
pump ramp down	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Electronic motor overload protection
evaluation of thermistor motor protection	No
inside-delta circuit	Yes
auto-RESET	Yes
manual RESET	Yes
remote reset	Yes; By turning off the control supply voltage
 communication function 	Yes
operating measured value display	Yes; Only in conjunction with special accessories
• error logbook	Yes; Only in conjunction with special accessories
via software parameterizable	No
via software configurable	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication module
firmware update	Yes
removable terminal for control circuit	Yes
torque control	No
analog output Power Electronics	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
operational current	
• at 40 °C rated value	47 A
• at 50 °C rated value	47 A 41.6 A
• at 60 °C rated value	36.2 A
operational current at inside-delta circuit	30.2 A
• at 40 °C rated value	81.4 A
at 50 °C rated value	72 A
• at 60 °C rated value	62.7 A
operating voltage	
rated value	200 480 V
at inside-delta circuit rated value	200 480 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	-15 %
inside-delta circuit	
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	11 kW
• at 230 V at inside-delta circuit at 40 °C rated value	22 kW
• at 400 V at 40 °C rated value	22 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	45 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz

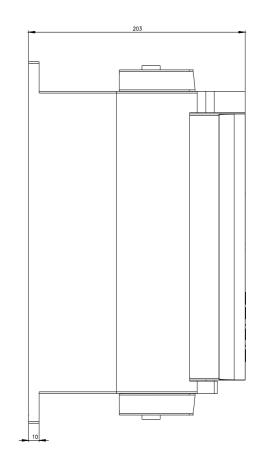
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
 at rotary coding switch on switch position 1 	20 A
 at rotary coding switch on switch position 2 	21.8 A
 at rotary coding switch on switch position 3 	23.6 A
 at rotary coding switch on switch position 4 	25.4 A
 at rotary coding switch on switch position 5 	27.2 A
 at rotary coding switch on switch position 6 	29 A
 at rotary coding switch on switch position 7 	30.8 A
at rotary coding switch on switch position 8	32.6 A
 at rotary coding switch on switch position 9 	34.4 A
 at rotary coding switch on switch position 10 	36.2 A
at rotary coding switch on switch position 11	38 A
at rotary coding switch on switch position 12	39.8 A
at rotary coding switch on switch position 13	41.6 A
at rotary coding switch on switch position 14	43.4 A
at rotary coding switch on switch position 15	45.2 A
• at rotary coding switch on switch position 16	47 A
• minimum	20 A
 adjustable motor current for inside-delta circuit at rotary coding switch on switch position 1 	34.6 A
 for inside-delta circuit at rotary coding switch on switch position 2 	37.8 A
 for inside-delta circuit at rotary coding switch on switch position 3 	40.9 A
 for inside-delta circuit at rotary coding switch on switch position 4 	44 A
• for inside-delta circuit at rotary coding switch on switch position 5	47.1 A
 for inside-delta circuit at rotary coding switch on switch position 6 for inside-delta circuit at rotary coding switch on switch 	50.2 A 53.3 A
 for inside-delta circuit at rotary coding switch on switch for inside-delta circuit at rotary coding switch on switch 	56.5 A
position 8for inside-delta circuit at rotary coding switch on switch	59.6 A
 position 9 for inside-delta circuit at rotary coding switch on switch 	62.7 A
 position 10 for inside-delta circuit at rotary coding switch on switch position 11 	65.8 A
 for inside-delta circuit at rotary coding switch on switch position 12 	68.9 A
 for inside-delta circuit at rotary coding switch on switch position 13 	72.1 A
 for inside-delta circuit at rotary coding switch on switch position 14 	75.2 A
• for inside-delta circuit at rotary coding switch on switch position 15	78.3 A
 for inside-delta circuit at rotary coding switch on switch position 16 at inside delta circuit minimum 	81.4 A 34.6 A
at inside-delta circuit minimum	
minimum load [%]	15 %; Relative to smallest settable le
 power loss [W] for rated value of the current at AC at 40 °C after startup 	26 W
• at 40°C after startup • at 50°C after startup	26 W 24 W
• at 50 °C after startup • at 60 °C after startup	24 W 23 W
• at 60 °C after startup power loss [W] at AC at current limitation 350 %	
 at 40 °C during startup 	606 W
- at to 0 during startup	522 W
• at 50 °C during startup	
• at 50 °C during startup	438 W
at 50 °C during startup at 60 °C during startup ontrol circuit/ Control	438 W

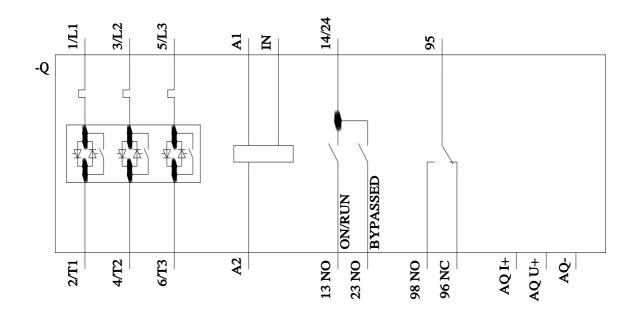
control supply voltage at AC	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
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	160 mA
holding current in bypass operation rated value	380 mA
inrush current by closing the bypass contacts maximum	7.6 A
inrush current peak at application of control supply voltage maximum	3.3 A
duration of inrush current peak at application of control supply voltage	12.1 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 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
	1 A
Installation/ mounting/ dimensions	
	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface
Installation/ mounting/ dimensions	+/- 10° rotation possible and can be tilted forward or backward on vertical
Installation/ mounting/ dimensions mounting position fastening method height	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm
Installation/ mounting/ dimensions mounting position fastening method height width	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 100 mm 100 mm 75 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • downwards • downwards • at the side	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • downwards • downwards • at the side weight without packaging	 +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg box terminal
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg box terminal screw-type terminals
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg box terminal
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum type of connectable conductor cross-sections	 +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 306 mm 185 mm 203 mm 10 mm 0 mm 10 mm 100 mm 75 mm 5 mm 5.2 kg box terminal screw-type terminals 25 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg box terminal screw-type terminals

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changing point standed 14 (2516 mm²) i or rais coulds for box terminal using the back denging point sold 14 (2516 mm²) i or rais coulds for box terminal using both damping point sold 14 (1020) i or rais coulds for box terminal using both damping point sold 24 (2536 mm²) i or rais coulds for box terminal using both damping point sold 24 (2536 mm²) i or rais coulds for box terminal using both damping point standed 24 (2536 mm²) i or rais coulds for box terminal using the back damping point standed 14 (1020 mm²). 24 (1050 mm²) i or oratio could firely standed with one end processing i or rais coulds for box terminal using the back damping point standed 14 (2560 mm²) i or oratio could firely standed with one end processing i or oratio could firely standed with one end processing i to rais coulds for oratio runa standed 14 (2560 mm²) i or oratio could stand ad molor maximum i to the digal inputs at 2C maximum 100 m i or oratio could firely standed with one end processing i or rais coulds with starew-type terminal i or rais coulds with starew-type terminal i or rais could inputs at 2C maximum 80 m i or trais coulds with starew-type terminal i or rais coulds with starew-type terminal i or rai	clamping point finely stranded with core end processing	
a for AVC cables for main contacts for box terminal using both clamping points addit 15 (1020) b for main contracts for box terminal using both clamping points addit and the core and poccessing 22 (2.535 mm ²) b for main contracts for box terminal using both clamping points flaw difference and poccessing 22 (2.535 mm ²) b for main contracts for box terminal using both clamping point flaw difference and poccessing 22 (2.535 mm ²) b for main contracts for box terminal using the back difference and poccessing 52 (2.550 mm ²) b for main contracts for box terminal using the back difference and poccessing 52 (2.550 mm ²) c for main contracts for box terminal using the back difference and poccessing 52 (2.550 mm ²) c for main contracts for box terminal using the back difference and poccessing 52 (2.525 mm ²) c for control circuit flaw difference and poccessing 52 (2.525 mm ²) c for control circuit flaw difference and poccessing 52 (2.525 mm ²) c for control circuit flaw difference 50 (0.542 mm ²) c for control circuit flaw difference 50 (0.542 mm ²) c for main contracts with screw type terminals 4.56 N m c for main contracts with screw type terminals 4.56 N m c for main contracts with screw type terminals 4.56 N m	•	1x (10 70 mm²)
the back damping point 4 or nails contacts for box terminal using both clamping point sold 24 (2.5 16 mm?) torm and contacts for box terminal using both clamping point finely standed with core and processing 24 (2.5 35 mm?) torm and contacts for box terminal using both clamping point finely standed with core and processing 14 (2.5 50 mm?) torm and contacts for box terminal using both clamping point finely standed with core and processing 14 (2.5 50 mm?) torm and contacts for box terminal using both clamping point finely standed with core and processing 14 (2.5 50 mm?) tor control forout standed 14 (10.5 40 mm?), 22 (10.5 2.5 mm?) tor control forout standed 14 (10.5 40 mm?), 22 (10.5 2.5 mm?) tor control forout standed 14 (10.5 40 mm?), 22 (10.5 1.5 mm?) tor control forout standed 14 (10.5 40 mm?), 22 (10.5 1.5 mm?) tor control forout standed 10 0 m tor and/ball inputs at AC maximum 100 m tor mails and motor maximum 80 m tor mails contacts with screw-type 4.5 6 Nm tor mails and thace whype terminals 4.5 6 Nm tor mails and thace at height above sea level maximum 6.000 m. Darating as of 1000 m. sea catalog ambient terminals 4.0		1x (2.5 16 mm²)
prime sold - for main contacts for box terminal using both clamping points finely stranded with core and processing 24:2535 mm?) - for main contacts for box terminal using both clamping points stranded 24:2535 mm?) - for main contacts for box terminal using both clamping points stranded 15:2535 mm?) - for main contacts for box terminal using the back 15:2535 mm?) - for control circuit sold 15:0540 mm?), 2x (0525 mm?) - for control circuit sold 15:0540 mm?), 2x (0525 mm?) - for control circuit sold 15:0540 mm?), 2x (0525 mm?) - for control circuit sold 15:0540 mm?), 2x (0525 mm?) - for control circuit sold 15:0540 mm?), 2x (0525 mm?) - for control circuit sold 16:0500 mm?) - for main contracts with screw-type terminals 4.50 Nm - for main contracts with screw-type terminals 4.50 Nm - for auxiliary and control contacts with screw-type 012 Nm Fightening torque [BH-1] - for auxiliary and control contacts with screw-type - for auxiliary and control contacts with screw-type		1x (10 2/0)
points finely stranded with core and processing 2 (6 16 mm²), 2x (10 50 mm²) off main contacts for box terminal using the back champing point finely stranded with core and processing 2 (6 16 mm²), 2x (10 50 mm²) off main contacts for box terminal using the back champing point stranded with core and processing 1x (25 50 mm²) 1x (10 70 mm²) off or carbid circuit sold 1x (05 26 mm²), 2x (05 25 mm²), 2x (05 25 mm²) 1x (05 26 mm²) off or carbid circuit sold 1x (05 26 mm²), 2x (05 26 mm²) 1x (05 26 mm²) off or carbid circuit sold 1x (05 26 mm²), 2x (05 26 mm²) 1x (05 26 mm²) off or carbid circuit sold 1x (0 70 mm²) 1x (00 70 mm²) off or carbid circuit sold 1x (0 70 mm²) 1x (0 70 mm²) off or all contacts with screw-type terminals 0 12 Nm 1x (0 70 mm²) off or all contacts with screw-type terminals 40 53 lbfin 0 or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals 40 53 lbfin 0 or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals 40 480 °C 100 mm		2x (2.5 16 mm²)
 for main contacts for box terminal using both clamping priorie strandor for main contacts for box terminal using the box clamping priorie strandor for main contacts for box terminal using the box clamping priorie strandor for main contacts for box terminal using the box clamping priorie strandor for control control claus stalls for main contacts with screw-type terminals for auxiliary and control contacts with screw-type during sportage according to IEC 60721 during storage according to IEC 60721 <li< td=""><td></td><td>2x (2.5 35 mm²)</td></li<>		2x (2.5 35 mm²)
 for main contacts for how terminol using the back damping outside the second of the second with orce end processing to the second of the second	• for main contacts for box terminal using both clamping	2x (6 16 mm²), 2x (10 50 mm²)
• for main contexts for box terminal using the back champing point stranded 1x (1070 mm ²) • for control circuit solid 1x (0.54.0 mm ²), 2x (0.52.5 mm ²) • for control circuit solid 1x (0.54.0 mm ²), 2x (0.51.5 mm ²) • for control circuit solid 1x (0.54.5 mm ²), 2x (0.51.5 mm ²) • for AWG cables for control circuit solid 1x (0.54.5 mm ²), 2x (0.51.5 mm ²) • for AWG cables for control circuit solid 100 m • at the digital inputs at DC maximum 800 m • for main contacts With screw-type terminals 4.56 Nm • for main contacts with screw-type terminals 4.56 Nm • for main contacts with screw-type terminals 4.56 Nm • for main contacts with screw-type terminals 4.56 Nm • for main contacts with screw-type terminals 4.053 lpf in • for main contacts with screw-type terminals -012 Nm • for main contacts with screw-type terminals -050 mm ² , 200 m, Derating as of 1000 m, see catalog ambient temperature -012 Nm -012 Nm • during storage according to IEC 60721 -060 VC, Please observe derating at temperatures of 40 °C or above • during storage according to IEC 60721 2K2 (CI, ES 6047-4-2; Class A	 for main contacts for box terminal using the back 	1x (2.5 50 mm²)
type of connectable conductor cross-sections fx (0.5 4.0 mm?), 2x (0.5 4.5 mm?) i for control circuit solid fx (0.5 4.0 mm?), 2x (0.5 1.5 mm?) i for control circuit solid fx (0.5 4.0 mm?), 2x (0.5 1.5 mm?) i for AWC cables for control circuit solid fx (0.5 4.0 mm?), 2x (0.5 1.5 mm?) i for AWC cables for control circuit solid fx (0.5 4.0 mm?), 2x (0.5 1.5 mm?) i for faile inputs at DC maximum f00 m i at the digital inputs at DC maximum f00 m i for auxiliary and control contacts with screw-type terminals 4.5 6 N m i for auxiliary and control contacts with screw-type terminals 40 53 lbfin i for auxiliary and control contacts with screw-type terminals 40 53 lbfin i for auxiliary and control contacts with screw-type terminals 40 53 lbfin i for main contacts with screw-type terminals 40 53 lbfin i for main contacts with screw-type terminals 40 53 lbfin i for main contacts with screw-type terminals 40 53 lbfin i for main contacts with screw-type terminals 40	• for main contacts for box terminal using the back	1x (10 70 mm²)
is for control circuit solid 12 (0.52.5 mm?), 22 (0.52.5 mm?) is for control circuit moles stranded with core end processing 1x (0.52.5 mm?), 2x (0.515 mm?) is for AVOC cables for control circuit solid 12 (0.512 km?) is the stepsing 800 m is at the digital inputs at AC maximum 800 m is at the digital inputs at DC maximum 100 m if gittering forque 6.56 N m is for auxiliary and control contacts with screw-type terminals 4.56 N m is for auxiliary and control contacts with screw-type terminals 453 lb/in is for auxiliary and control contacts with screw-type terminals 453 lb/in installation attilde at height above sea level maximum 5.000 m; Derating as of 1000 m, see catalog ambient temperature -25460 °C; Please observe derating at temperatures of 40 °C or above iduring operation according to IEC 60721 3K6 (no lee formation, only occasional condensation), 3C3 (no sait mist), 3S2 (team must not get insiste the devices), 3M6 iduring transport according to IEC 60721 2Kc, 2(2), 2(3), 2(3), 2((mx, Laft height 3 m)) iduring transport according to IEC 60721 2Kc, 2(2), 2(3), 2(3), 2(1), 2(
• for control circuit finely stranded with core end processing • for AWC cables for control circuit sold * for AWC cables for control circuit sold * for avx10 cables for control circuit sold * for avx10 inputs at AC maximum * at the digital inputs at AC maximum * of main contacts with screw-type terminals * for main contacts with screw-type terminals * for main contacts with screw-type terminals * for main control control contacts with screw-type terminals * for main control control contacts with screw-type terminals * for main control control contacts with screw-type terminals * for main control control control control control control control control with screw-type terminals * for main control c		$1 \times (0.5 \pm 0.0 \text{ mm}^2) \times (0.5 \pm 2.5 \text{ mm}^2)$
• for AWG cables for control circuit solid 1x (20 12), 2x (20 14) wire length between soft starter and motor maximum et the digital inputs at AC maximum 100 m et the digital inputs at AC maximum 100 m for main contacts with screw-type terminals 45 6 N m 0.8 12 N m terminals for auxilary and control contacts with screw-type installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see catalog ambient temperature • during operation • during storage and transport • during dependion according to IEC 60721 Sk6 (no ice formation, only occasional condensation), 3C3 (no salt mist), S52 (sam must not get into the devices), MM et uning storage according to IEC 60721 Sk2 (sam Science Science Science Science Science Science Science Science FROFINET standard Yes EtherNetIP Yes EtherNetIP Yes EtherNetIP Yes UICGSA ratings UCGSA ratings UICGSA ratings UCGSA ratings Uice for standard Faults at 460/480 V according to UL usable for Standard Faults at		
wire length between soft starter and motor maximum 800 m • at the digital inputs at AC maximum 100 m • at the digital inputs at AC maximum 100 m • for main contacts with screw-type terminals 4.5 6 N m • for auxiliary and control contacts with screw-type terminals 4.5 6 N m • for auxiliary and control contacts with screw-type terminals 4.5 6 N m • for auxiliary and control contacts with screw-type terminals 4.5 6 N m • for auxiliary and control contacts with screw-type terminals 4.5 6 N m • for auxiliary and control contacts with screw-type terminals 4.5 6 N m • for auxiliary and control contacts with screw-type terminals 4.5 6 N m • for auxiliary and control contacts with screw-type terminals 4.5 6 N m • during operation 5.000 m; Derating as of 1000 m, see catalog ambient temperature - • during storage and transport -25 +60 °C; Please observe derating at temperatures of 40 °C or above • during storage according to IEC 60721 3K6 (no lee formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M8 • during storage according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m) EMC emitted interforence acc. to EC 60947.4-2; Class A Communication module is supported Yes • PROFI		
between soft starter and motor maximum is the digital inputs at AC maximum 100 m is the digital inputs at AC maximum 100 m is the digital inputs at AC maximum 100 m is the digital inputs at AC maximum 100 m is the digital inputs at AC maximum 100 m is the digital inputs at AC maximum is or auxiliary and control contacts with screw-type is or main contacts with screw-type terminals 4.56 N m 0.612 N-m is or auxiliary and control contacts with screw-type iterminals Anibient canditions if or auxiliary and control contacts with screw-type imminals Anibient canditions installation attitude at height above sea level maximum during operation - during storage at transport - during storage at transport - during storage according to IEC 60721 (addition during to IEC 60721 - during storage according to IEC 60721 - during therefore - explice for Storadard Faults at 460/480 V according - usable for Storadard Faults at 460/480 V accor		1x (20 12), 2x (20 14)
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EMC emitted interference acc. to IEC 60947-4-2: Class A Communication / Protocol communication module is supported • PROFINET standard Yes • EtherNet/IP Yes • Modbus RTU Yes • DEOFIBUS Yes UL/CSA ratings Yes - usable for Standard Faults at 460/480 V according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA - usable for High Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3VA51, max. 60 A; lq max = 65 kA - usable for High Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3VA51, max. 60 A; lq max = 65 kA - usable for Standard Faults at 575/600 V according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA - usable for Standard Faults at	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
Communication/ Protocol communication module is supported • PROFINET standard Yes • EtherNet/IP Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes UL/CSA ratings Yes 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. 90 A; lq = 5 kA usable for Standard Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3VA51, max. 90 A; lq = 5 kA - usable for High Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3VA51, max. 60 A; lq max = 65 kA - usable for High Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3VA51, max. 60 A; lq max = 65 kA - usable for Standard Faults at 575/600 V according to UL Siemens type: 3VA51, max. 60 A; lq max = 65 kA - usable for Standard Faults at 575/600 V according to UL Siemens type: 3VA51, max. 60 A; lq max = 65 kA - usable for Standard Faults at 575/600 V according to UL Siemens type: 3VA51, max. 60 A; lq max = 65 kA - usable for Standard Faults at 575/600 V according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA - usable for Standard Faults at 575/600 V according to UL	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
communication module is supported • PROFINET standard Yes • EtherNet/IP Yes • Modbus RTU Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes UL/CSA ratings Yes UL/CSA ratings Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA to UL - usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA51, max. 60 A; Iq max = 65 kA - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3VA51, max. 90 A; Iq = 5 kA - usable for High Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3VA51, max. 90 A; Iq = 5 kA - usable for High Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA - usable for Standard Faults at 575/600 V according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA - usable for Standard Faults at 575/600 V according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
 PROFINET standard PROFINET standard EtherNet/IP Modbus RTU Modbus RTU Yes Modbus TCP Yes PROFIBUS Yes UL/CSA ratings usable for Standard Faults at 460/480 V according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA - usable for High Faults at 460/480 V according to UL Siemens type: 3VA51, max. 90 A; Iq = 5 kA - usable for High Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3VA51, max. 60 A; Iq max = 65 kA - usable for High Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3VA51, max. 60 A; Iq max = 65 kA - usable for High Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3VA51, max. 60 A; Iq max = 65 kA - usable for High Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3VA51, max. 60 A; Iq max = 65 kA - usable for High Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA - usable for Standard Faults at 575/600 V according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
• EtherNet/IPYes• Modbus RTUYes• Modbus TCPYes• PROFIBUSYes UL/CSA ratings Yes UL/CSA ratings Simens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA• of circuit breakerSiemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA- usable for High Faults at 460/480 V according to ULSiemens type: 3VA51, max. 60 A; Iq max = 65 kA- usable for Standard Faults at 460/480 V at inside-delta circuit according to ULSiemens type: 3VA51, max. 90 A; Iq = 5 kA- usable for High Faults at 460/480 V at inside-delta circuit according to ULSiemens type: 3VA51, max. 60 A; Iq max = 65 kA- usable for Standard Faults at 460/480 V at inside-delta circuit according to ULSiemens type: 3VA51, max. 60 A; Iq max = 65 kA- usable for Standard Faults at 575/600 V according to ULSiemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA- usable for Standard Faults at 575/600 V according to ULSiemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA- usable for Standard Faults at 575/600 V at inside-Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
• Modbus RTUYes• Modbus TCPYes• PROFIBUSYes UL/CSA ratings Yes UL/CSA ratings Semens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA• of circuit breakerSiemens type: 3VA51, max. 60 A; Iq max = 65 kA- usable for Standard Faults at 460/480 V according to ULSiemens type: 3VA51, max. 60 A; Iq max = 65 kA- usable for Standard Faults at 460/480 V at inside- delta circuit according to ULSiemens type: 3VA51, max. 60 A; Iq max = 65 kA- usable for High Faults at 460/480 V at inside- delta circuit according to ULSiemens type: 3VA51, max. 60 A; Iq max = 65 kA- usable for Standard Faults at 460/480 V at inside- delta circuit according to ULSiemens type: 3VA51, max. 60 A; Iq max = 65 kA- usable for Standard Faults at 460/480 V at inside- delta circuit according to ULSiemens type: 3VA51, max. 60 A; Iq max = 65 kA- usable for Standard Faults at 575/600 V according to ULSiemens type: 3VA51, max. 60 A; Iq max = 65 kA- usable for Standard Faults at 575/600 V according to ULSiemens type: 3VA51, max. 90 A; Iq = 5 kA- usable for Standard Faults at 575/600 V at inside- to ULSiemens type: 3VA51, max. 90 A; Iq = 5 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A
• Modbus TCPYes• PROFIBUSYesUL/CSA ratingsUL/CSA ratingsmanufacturer's article number• of circuit breaker- usable for Standard Faults at 460/480 V according to ULSiemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA- usable for Standard Faults at 460/480 V according to ULSiemens type: 3VA51, max. 60 A; lq max = 65 kA- usable for Standard Faults at 460/480 V at inside-delta circuit according to ULSiemens type: 3VA51, max. 60 A; lq max = 65 kA- usable for High Faults at 460/480 V at inside-delta circuit according to ULSiemens type: 3VA51, max. 60 A; lq max = 65 kA- usable for Standard Faults at 460/480 V at inside-delta circuit according to ULSiemens type: 3VA51, max. 60 A; lq max = 65 kA- usable for Standard Faults at 575/600 V at inside-delta circuit according to ULSiemens type: 3VA51, max. 60 A; lq max = 65 kA- usable for Standard Faults at 575/600 V at inside-delta circuit according to ULSiemens type: 3VA51, max. 60 A; lq max = 65 kA- usable for Standard Faults at 575/600 V at inside-delta circuit according to ULSiemens type: 3VA51, max. 60 A; lq max = 65 kA- usable for Standard Faults at 575/600 V at inside-Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A
• PROFIBUS Yes UL/CSA ratings Figure 1 manufacturer's article number Simple 1 • of circuit breaker Simple 3 - usable for Standard Faults at 460/480 V according to UL Simple 3 Simple 3 State 3 - usable for High Faults at 460/480 V according to UL Simple 3 Simple 3 VA51, max. 60 A; Iq max = 65 kA - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL Simple 3 Simple 3 VA51, max. 90 A; Iq = 5 kA - usable for High Faults at 460/480 V at inside-delta circuit according to UL Simple 3 Simple 3 VA51, max. 90 A; Iq = 5 kA - usable for High Faults at 460/480 V at inside-delta circuit according to UL Simple 3 Simple 3 VA51, max. 90 A; Iq = 5 kA - usable for Standard Faults at 575/600 V according to UL Simple 3 Simple 3 VA51, max. 90 A; Iq = 5 kA - usable for Standard Faults at 575/600 V at inside-delta to UL Simple 3 Simple 3 VA51, max. 90 A; Iq = 5 kA - usable for Standard Faults at 575/600 V at inside-delta to UL Siemens type: 3 Siemens type 3 VA51, max. 90 A; Iq = 5 kA - usable for Standard Faults at 575/600 V at inside-delta to UL Siemens type: 3 Simple 3 VA51, max. 90 A; Iq = 5 kA VA51, ma	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication / Protocol communication module is supported • PROFINET standard	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A
UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V at inside-delta Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication / Protocol communication module is supported • PROFINET standard • EtherNet/IP	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes
manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V at inside- Siemens type: 3VA51, max. 70 A or 3VA51, max. 90 A; lq = 5 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication / Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes
manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V at inside- Siemens type: 3VA51, max. 70 A or 3VA51, max. 90 A; lq = 5 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication / Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes
 of circuit breaker usable for Standard Faults at 460/480 V according to UL usable for High Faults at 460/480 V according to UL usable for Standard Faults at 460/480 V according to UL usable for Standard Faults at 460/480 V at inside-delta circuit according to UL usable for High Faults at 460/480 V at inside-delta circuit according to UL usable for Standard Faults at 460/480 V at inside-delta circuit according to UL usable for Standard Faults at 460/480 V at inside-delta circuit according to UL usable for Standard Faults at 575/600 V according to UL usable for Standard Faults at 575/600 V at inside- Siemens type: 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA 	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication / Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes
— usable for Standard Faults at 460/480 V according to ULSiemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA— usable for High Faults at 460/480 V according to ULSiemens type: 3VA51, max. 60 A; lq max = 65 kA— usable for Standard Faults at 460/480 V at inside- delta circuit according to ULSiemens type: 3VA51, max. 90 A; lq = 5 kA— usable for High Faults at 460/480 V at inside- delta circuit according to ULSiemens type: 3VA51, max. 90 A; lq = 5 kA— usable for High Faults at 460/480 V at inside-delta circuit according to ULSiemens type: 3VA51, max. 60 A; lq max = 65 kA— usable for Standard Faults at 575/600 V according to ULSiemens type: 3VA51, max. 70 A or 3VA51, max. 90 A; lq = 5 kA— usable for Standard Faults at 575/600 V at inside-Siemens type: 3VA51, max. 70 A or 3VA51, max. 90 A; lq = 5 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes
— usable for High Faults at 460/480 V according to ULSiemens type: 3VA51, max. 60 A; Iq max = 65 kA— usable for Standard Faults at 460/480 V at inside- delta circuit according to ULSiemens type: 3VA51, max. 90 A; Iq = 5 kA— usable for High Faults at 460/480 V at inside-delta circuit according to ULSiemens type: 3VA51, max. 90 A; Iq = 5 kA— usable for High Faults at 460/480 V at inside-delta circuit according to ULSiemens type: 3VA51, max. 60 A; Iq max = 65 kA— usable for Standard Faults at 575/600 V according to ULSiemens type: 3VA51, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA— usable for Standard Faults at 575/600 V at inside- to ULSiemens type: 3VA51, max. 90 A; Iq = 5 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes
— usable for Standard Faults at 460/480 V at inside- delta circuit according to ULSiemens type: 3VA51, max. 90 A; Iq = 5 kA— usable for High Faults at 460/480 V at inside-delta circuit according to ULSiemens type: 3VA51, max. 60 A; Iq max = 65 kA— usable for Standard Faults at 575/600 V according to ULSiemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA— usable for Standard Faults at 575/600 V at inside-Siemens type: 3VA51, max. 90 A; Iq = 5 kA— usable for Standard Faults at 575/600 V at inside-Siemens type: 3VA51, max. 90 A; Iq = 5 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication Protocol communication Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes
— usable for High Faults at 460/480 V at inside-delta Siemens type: 3VA51, max. 60 A; Iq max = 65 kA — usable for Standard Faults at 575/600 V according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA — usable for Standard Faults at 575/600 V at inside- Siemens type: 3VA51, max. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication Protocol communication Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA
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— usable for Standard Faults at 575/600 V at inside- Siemens type: 3VA51, max. 90 A; Iq = 5 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V at inside- delta circuit according to UL — usable for High Faults at 460/480 V at inside- delta circuit according to UL — usable for High Faults at 460/480 V at inside-	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3VA51, max. 90 A; lq = 5 kA
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of the fuse	
 — usable for Standard Faults up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 175 A; lq = 5 kA
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 175 A; lq = 100 kA
 usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 175 A; lq = 5 kA
 usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 175 A; lq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	10 hp
 at 220/230 V at 50 °C rated value 	10 hp
• at 460/480 V at 50 °C rated value	30 hp
 at 200/208 V at inside-delta circuit at 50 °C rated value 	20 hp
• at 220/230 V at inside-delta circuit at 50 °C rated value	25 hp
 at 460/480 V at inside-delta circuit at 50 °C rated value 	50 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
protection class IP on the front according to IEC 60529	IP00; IP20 with cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover
electromagnetic compatibility	in accordance with IEC 60947-4-2
Certificates/ approvals	
General Product Approval	EMC
eeneral i reader (pprotai	
CSA CCC	
Declaration of Conformity Test Certificat	tes Marine / Shipping
UK CA EG-Konf. Type Test Ce ates/Test Re	ABS BUREAU VERITAS
Marine / Shipping other	
Confirmation	
Further information	
Siemens has decided to exit the Russian market (see here).	
https://www.ac.aiowa.ac.ac.ac.ac.ac.ac.ac.ac.ac.ac.ac.ac.ac	
https://press.siemens.com/global/en/pressrelease/siemens-wind-de	
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