SIEMENS

Data sheet

Siemens



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



- of communication module PROFINET standard usable
- of communication module PROFIBUS usable
- of communication module Modbus TCP usable
- of communication module Modbus RTU usable
- of communication module Ethernet/IP
- of circuit breaker usable at 400 V
- of circuit breaker usable at 500 V
- of circuit breaker usable at 400 V at inside-delta circuit
- of circuit breaker usable at 500 V at inside-delta circuit
- of the gG fuse usable up to 690 V
- \bullet of the gG fuse usable at inside-delta circuit up to 500 V
- \bullet of full range R fuse link for semiconductor protection usable up to 690 V
- \bullet of back-up R fuse link for semiconductor protection usable up to 690 V

3NE3333; Type of coordination 2, Iq = 65 kA

2x3NA3354-6; Type of coordination 1, Iq = 65 kA

2x3NA3354-6; Type of coordination 1, Iq = 65 kA

3NE1230-2; Type of coordination 2, Iq = 65 kA

3VA2325-7MN32-0AA0; Type of coordination 1, Ig = 65 kA, CLASS 10

3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2440-7MN32-0AA0; Type of coordination 1, Ig = 65 kA, CLASS 10

3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

General technical data

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
buffering time in the event of power failure	

3RW5980-0CS00

3RW5980-0CP00

3RW5980-0CT00

3RW5980-0CR00

3RW5980-0CE00

3RW5243-6TC14

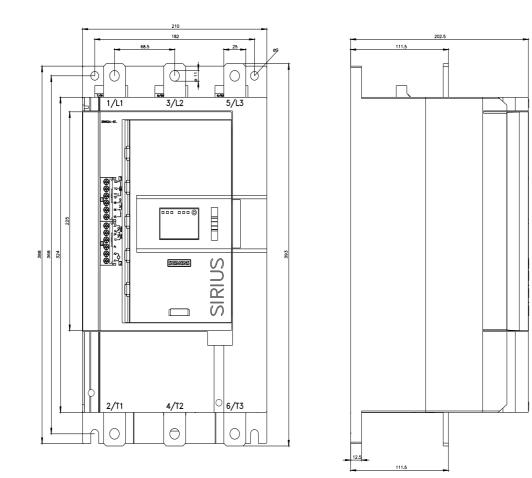
• for control crout 100 ms insulation voltage rated value 600 V degree of pollution 3, acc. to IEC 60917-4-2 impute voltage rated value 6 V/ service factor 1 service factor 100 V estructure main and auxilizator protective separation 600 V • between main and auxilizator capout value 60 V • attract resistance 10 (311 ms, tom 12g / 11 ms with polential contact Hing • attract resistance 00 V • attract resistance 01 (312 / 312 / 31 ms with polential contact Hing • attract resistance 02 (320 / 320 /	for main current circuit	100 ms				
Insulation vortage rated value 800 V degree of pollution 3, acc. to F08 0697.4.2 Impulse vortage rated value 6 V Bocking vortage of the thyritor maximum 1 800 V string factor 1 string vortage of the thyritor maximum 6 V maximum permissible vortage for protocitive separation 6 V • theteven main and auxilary circuit 600 V • distance Prohibitanc (Dato) 02/15/2018 SVMC substance name 2/11 time, time thyritor thyritor maximum • theteven main and auxilary circuit 600 V • distance Prohibitanc (Dato) 02/15/2018 SVMC substance Context to thete						
degree of polution 9, act. to IEC 8047-4-2 Impulse vortage radi value 610' Service fractor 1 service fractor 1 service fractor 1 using voltage of the thyristor maximum 1600 V service fractor 1 using voltage resistance rated value 600 V maximum permissible voltage for protective separation 600 V setucement main and auxiliary offuttion 600 V difference code according to IEC 61446-2 Q Q 200 - 7422 (21 ms with potential contact iting SWHC substance home Lead - 7439-82-1 Lead - 7439-82-1 Lead - 7439-82-1 Lead - 7439-82-1 Lead - 7439-82-1 Dedocable potentization fluctures and straining any of its individual anti- and syn-somes or any contraination fluctures gerectification Yes anti- 7439-82-1 Interd function Yes Yes * amany-up (soft starting) Yes Yes * and vortable protection Yes Yes * and vortable protection Yes Yes *						
Implete voltage rated value 6 kV blocking voltage rated value 1 surge voltage rated value 6 kV maximum primisation voltage for protective separation 6 kV aurge voltage rated value 6 kV abok resistance 11 g J (11 ms, ktm potential contact liting villation category according to IEC 00947-4.2 AC 538 forkrome code according to IEC 01947-4.2 AC 538 villation category according to IEC 01947-4.2 AC 538 SVHC substance name Lead -ransorde (ad code) - 1317-36.8 according to IEC 01947-9 A I Isopropriot monotele (ad code) - 1317-36.8 according to IEC 01947-9 A I Isopropriot monotele (ad code) - 1317-36.8 according to IEC 01947-9 A I Isopropriot monotele (ad code) - 1317-36.8 according to IEC 01947-9 A I Isopropriot monotele (ad code) - 1317-36.8 according to IEC 01947-9 A I Isopropriot monotele (ad code) - 140.7.96 product function Image According to IEC 0100						
bioching voltage of the thyristor maximum 1 600 V surge voltage relations rated value 5 kV maximum permissible voltage for protective separation 6 kV • between main and auxiliary orbit 600 V shows main and auxiliary orbit 71805 D0 Shift auxiliary orbit 71805 D0 shows main 2015 2018 Shift auxiliary orbit 2016 2014 <						
service factor 1 surge voltage resistance ratio volues 6 kV eldeveen main and auxiliary circuit 60 V shock resistance 15 g/ 11 ms, from 12 g/ 11 ms with potential contact litting utilization category according to IEC 00047-4-2 AC 53a reference code according to IEC 00047-4-2 AC 53a shock resistance 10 g/ 11 ms, from 12 g/ 11 ms with potential contact litting status according to IEC 00047-4-2 AC 53a for frame code according to IEC 00047-4-2 AC 53a status according to IEC 00047-4-2 AC 53a SVHC substance name Catrixo16 SVHC substance name Catrixo17 17.438 Status according to IEC 00047-42 AC 53a reference code Status and status and syn-isomers or any consultaton thereof Optic 10 (CHP) - 84.61.7 status according to IEC 00047-42 No covering any of its individual and- and syn-isomers or any consultaton thereof Optic 10 (CHP) - 84.61.7 resistance according to IEC 00047-42 Yes status according to IEC 00047-42 Yes status according to IEC 00047-42 Yes remains according to IEC 00047-42 Yes remainstacodo protection						
surge voltage resistance rated value 6 kV maximum permissible voltage for protective separation 600 V • between main and auxiling voltatit 750 Sin • reference code according to IEC 81345-2 0 • Outprison voltatit 201/52016 SVHC substance name Lead -7439.82-1 • Lead -7439.82-1 Lead -7439.82-1 • Detection voltatity -144 -64 nettry voltation voltat						
maximum permissible voltage for protective separation 600 V • between main and auxiliary circuit 500 V • between main and auxiliary circuit 15 g/11 ms, from 12 g/11 ms with potential contact lifting • utilization category according to IEC 60947.4-2 AC 55a • General code according to IEC 60947.4-2 AC 55a • Substance Prohibitance (Date) 02/15/2016 SVHC substance name 12 / 2 / 3 / 4 statemon-24 / 4 superprojectoregan-1-one - 7 / 888-10-5 • Z 2 / 5 / 4 state down-24 / 4 superprojectoregan-1-one - 7 / 888-10-5 2 / 2 / 5 / 4 state down-24 / 4 superprojectoregan-1-one - 7 / 888-10-5 • amp-up (soft starting) Yes 10 / 2 / 1 / 0 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2						
ebeveen main and availably circuit shock resistance iditization tackgoys according to IEC 60947.4.2 AC 53a reference code according to IEC 61947.4.2 AC 53a Code according to IEC 61947.4.2 AC 53a Code according to IEC 61947.4.2 Code according to IEC 61949.4 Code accode according to IEC 61949						
shock resistance 15 gr 11 ms, from 12 gr / 11 ms with potential contact lifting utilization category according to IEC 60497-4-2 AC 53a reference code according to IEC 81346-2 Q Stustance Prohibitance (Dato) 52715/2018 SVHC substance name 20/15/2018 SVHC substance name 20/15/2018 SVHC substance name 20/15/2018 product function 20/15/2018 product function 20/15/2018 product function 20/15/2018 etail monotable (leaf colde) - 1317-38-8 20/16/2018 product function 20/15/2018 etail monotable (leaf colde) - 1317-38-8 20/16/2018 product function Yes etail monotable (local and en/ly covering any of lis individual and syn-isomers or any combination function - 220/3-19-4 periodevice protection Yes etail subscinction Yes etail subscinction Yes etail cover protection Yes etail cover protection Yes etail cover protection Yes etail cover protection Yes etail cover protection </th <th></th> <th>600 V</th>		600 V				
diffication calegory according to IEC 81346-2 Q substance Prohibitance (table) 02/15/2018 SVHC substance name Lead -7639-2-1 Lead -7639-2-1 Lead -7639-2-1 SVHC substance name Lead -7639-2-1 Substance Prohibitance (table) 02/15/2018 SVHC substance name Lead -7639-2-1 Substance Prohibitance (table) 02/15/2018 Substance Prohibitance (table) 12/15/16/16/16/16/16/16/16/16/16/16/16/16/16/	•					
reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 02/15/2018 SVHC substance name Lead .7438-82-1 Lead monoide (lead colde) - 1317-36-8 22/15/2018 Substance Prohibitance (Date) 22/15/2018 Date 22/15/2018 Substance Prohibitance (Date) 24/15/2018 Substance Prohibitance (Date) 22/15/2018 Product function Yes * ramp-up (soft stanfing) Yes * adjustable current limitation Yes						
Substance Prohibitance (Date) 02/15/2018 SVHC substance name Lead - 7439/82.1 Lead - 7439/82.1 Lead - 7439/82.1 Several Science name Lead - 7439/82.1 Lead - 7439/82.1 Lead - 7439/82.1 Science name Lead - 7439/82.1 Lead - 7439/82.1 Lead - 7439/82.1 Science name Lead - 7439/82.1 Lead - 7439/82.1 Lead - 7439/82.1 Lead - 7439/82.1 Lead - 7439/82.1 Lead - 7439/82.1 Lead - 7439/82.1 Dedecachtoroperitaryo(c)[12.2.116, 0.02130.5 (1)Dedates-71.5-dine (C)Dedecachtoroperitaryo(c)[12.2.116, 0.02130.5 (1)Dedates-71.5-dine (C)Dedates-71.5-dine (C)Dedates-71						
SVHC substance name Leat - 7439-92-1 Leat - 7439-92-1 Leat - 7439-92-1 L						
Lead monoxide (read oxido) - 1317-36-8 2-8.6 A detaincome 4.4 isopropylidenciphonal - 79.94.7 1.6.7.8.9, 14.16, 16.9.02, 13.05, 100/tataleca-7, 15-diene Carlow 1.4 A despropylidenciphonal - 79.94.7 1.6.7.8.9, 14.16, 16.9.02, 13.05, 100/tataleca-7, 15-diene Carlow 1.4.7.17, 18, 18 Product function						
• ramp-up (soft starting) Yes • ramp-down (soft stop) Yes • Soft Torque Yes • adjustable current limitation Yes • untrinsic device protection Yes • intrinsic device protection Yes • motor overload protection Yes • evaluation of thermistor motor protection Yes • intrinsic device protection Yes • evaluation of thermistor motor protection Yes • inside-defla circuit Yes • auto-RESET Yes • manual RESET Yes • 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 configurable Yes • via software configurable Yes • removable terminal for control circuit Yes • removable terminal for control circuit Yes • via software configurable Yes • analog output Yes • removable terminal for control circuit Yes • torque control iat 0° C rated value		Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) covering any of its individual anti- and syn-isomers or any combination thereof Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Dicyclohexyl phthalate (DCHP) - 84-61-7				
• ramp-dup (soft starting) Yes • ramp-down (soft stop) Yes • Soft Torque Yes • adjustable current limitation Yes • untrinsic device protection Yes • intrinsic device protection Yes • motor overload protection Yes • evaluation of thermistor motor protection Yes • intrinsic device protection Yes • evaluation of thermistor motor protection Yes • inside-defta circuit Yes • auto-RESET Yes • auto-RESET Yes • communication function Yes • communication function Yes • compating measured value display Yes: Only in conjunction with special accessories • error logbook Yes; in connection with special accessories • via software configurable Yes • via software configurable Yes • removable terminal for control circuit Yes • firmware update Yes • removable terminal for control circuit Yes • torque control soft A • at 60 °C rated value 10 A • at	product function					
• ramp-down (soft stop) Yes • Soft Torque Yes • adjustable current limitation Yes • pump ramp down Yes • intrinsic device protection Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) • evaluation of thermistor motor protection Yes; Type A PTC or Kilkon / Thermoclick • inside-delta circuit Yes • auto-RESET Yes; By turning off the control supply voltage • communication function Yes; Only in conjunction with special accessories • error logbook Yes; Nuring off the control supply voltage • via software parameterizable No • via software configurable Yes • torque control Yes; no connection with the PROFINET Standard communication module • firmware update Yes • torque control No • analog output No • analog output No • at 60 °C rated value 210 A • at 60 °C rated value 364 A • at 60 °C rated value 224 A • at 60 °C rated value 364 A • at 60 °C rated value 294 A • of rated value		Yes				
 Soft Torque Yes adjustable current limitation Yes adjustable current limitation Yes adjustable current limitation Yes intrinsic device protection Yes: Full motor protection (thermistor motor protection and electronic motor overload protection) evaluation of thermistor motor protection Yes: Type A PTC or Kilkon / Thermoclick inside-delta circuit Yes auto-RESET remote reset communication function Yes: Only in conjunction with special accessories oparating measured value display Yes: Only in conjunction with special accessories via software configurable Yes removable forminal for control circuit Yes removable forminal for control circuit via software update to coprational current at 40 °C rated value at 60 °C r		Yes				
• adjustable current limitation Yes • pump ramp down Yes • intrinsic device protection Yes • motor overload protection Yes • waluation of thermistor motor protection Yes; Type A PTC or Klikon / Thermocilick • inside-delta circuit Yes • auto-RESET Yes • emotor evende reset Yes; By turning off the control supply voltage • ommunication function Yes; Only in conjunction with special accessories • emotor erset Yes; Ionly in conjunction with special accessories • operating measured value display Yes; Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes • removable ferminal for control circuit Yes • tatog output No Power Electronics You A • at alog output No Power Electronics 210 A • at 60 °C rated value 264 A • at 60 °C rated value 364 A • at 60 °C rated value 364 A • at 60 °C rated value 224 A • at 60 °C rated value 294 A • operating voltage 294 A • rated value 200 480 V • at 60 °C rated value 200 480 V						
• pump ramp downYes• Intrinsic device protectionYes• motor overload protectionYes• motor overload protectionYes• valuation of thermistor motor protectionYes• inside-delta circuitYes• inside-delta circuitYes• inside-delta circuitYes• indic-RESETYes• manual RESETYes• error logbookYes; Drly in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software parameterizableYes• indic/dataYes• removable terminal for control circuitYes• forque controlNo• aid of Crated value210 A• at 60 °C rated value186 A• at 60 °C rated value364 A• at 60 °C rated value224 A• at 60 °C rated value294 A• at 60 °C ra	•					
• intrinsic device protection Yes • motor overload protection Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) • evaluation of thermistor motor protection Yes; Type A PTC or Klixon / Thermoclick • inside-delta circuit Yes • auto-RESET Yes • manual RESET Yes • communication function Yes; By turning off the control supply voltage • communication function Yes • operating measured value display Yes; Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes • infimware updats Yes • removable terminal for control circuit Yes • firmware updats Yes • orgue control No • analog output No • analog output No • at 60 °C rated value 210 A • at 60 °C rated value 364 A • at 60	-	Yes				
• motor overload protection Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) • evaluation of thermistor motor protection Yes; Type A PTC or Klixon / Thermoclick • inside-delta circuit Yes • auto-RESET Yes • emotire reset Yes; Day I protection with special accessories • communication function Yes; Only in conjunction with special accessories • error logbook Yes; Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes; in connection with the PROFINET Standard communication module • firmware update Yes • removable terminal for control circuit Yes • power Electronics Yes operating measured value 210 A • at 40 °C rated value 170 A • at 40 °C rated value 364 A • at 60 °C rated value 364 A • at 60 °C rated value 364 A <						
• inside-delta circuit Yes • auto-RESET Yes • manual RESET Yes • remote reset Yes; By turning off the control supply voltage • communication function 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 • log update Yes • log update Yes • orque control No • analog output No Power Electronics 210 A • at 60 °C rated value 186 A • at 60 °C rated value 170 A • operational current 322 A • at 60 °C rated value 220 480 V • at 60 °C rated value 294 A • operating voltage 294 A • at or value 294 A • at or value 200 480 V • at or value 200 480 V • at inside-delta circuit rated value 200 480 V • at inside-delta circuit rated value 200 480 V	-					
• auto-RESETYes• manual RESETYes• remote resetYes; By turning off the control supply voltage• communication functionYes;• operating measured value displayYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes;• via software configurableYes;• prover lederonicYes;• removable terminal for control circuitYes• firmware updateYes• removable terminal for control circuitYes• operating outputNo• over ElectronicsYes• operational current210 A• at 40 °C rated value186 A• at 50 °C rated value364 A• at 50 °C rated value364 A• at 50 °C rated value322 A• at 60 °C rated value294 A• operating voltage294 A• preting voltage294 A• erated value200 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit roted value200 480 V•	 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick				
• manual RESETYes• remote resetYes; By turning off the control supply voltage• communication functionYes; Only in conjunction with special accessories• operating measured value displayYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes• PROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputNoPower ElectronicsYesoperational current210 A• at 40 °C rated value186 A• at 40 °C rated value364 A• at 40 °C rated value364 A• at 60 °C rated value220 480 V• at 60 °C rated value294 A• at 60 °C rated value200 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit roted value200 480 V	inside-delta circuit	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 Yes Operational current 210 A • at 40 °C rated value 186 A • at 60 °C rated value 364 A • at 60 °C rated value 364 A • at 60 °C rated value 294 A operating voltage 294 A operating voltage 294 A operating voltage 200 480 V • at inside-delta circuit rated value 200 480 V • at inside-delta circuit rated value 200 480 V • at inside-delta circuit rated value 200 480 V	auto-RESET	Yes				
 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 PROFIenergy Yes in connection with the PROFINET Standard communication module firmware update Yes removable terminal for control circuit forque control analog output No Power Electronics operational current at 40 °C rated value at 50 °C rated value of crated value at 60 °C rated value at inside-delta circuit rated value at inside-delta circuit rated value at inside-delt	manual RESET	Yes				
• operating measured value displayYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes• PROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputNoPower ElectronicsYesoperational current210 A• at 40 °C rated value210 A• at 60 °C rated value364 A• at 60 °C rated value364 A• at 60 °C rated value294 A• operating current at inside-delta circuit294 A• at 60 °C rated value200 480 V• at inside-delta circuit	remote reset	Yes; By turning off the control supply voltage				
• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes• PROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputNoPower ElectronicsOperational current• at 40 °C rated value210 A• at 60 °C rated value186 A• at 60 °C rated value364 A• at 60 °C rated value364 A• at 60 °C rated value222 A• at 60 °C rated value200 480 V• at 60 °C rated value200 480 V• at 60 °C rated value210 A• at 60 °C rated value364 A• at 60 °C rated value364 A• at 60 °C rated value120 M• at 10 °C rated value120 M• at 10 °C rated value<	 communication function 	Yes				
via software parameterizableNovia software configurableYes• PROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputNoPower ElectronicsNo• at 40 °C rated value210 A• at 50 °C rated value186 A• at 60 °C rated value364 A• at 40 °C rated value364 A• at 50 °C rated value322 A• at 60 °C rated value200 480 V• at 60 °C rated value200 480 V<	 operating measured value display 	Yes; Only in conjunction with special accessories				
via software configurableYes• PROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputNoPower ElectronicsVers• at 40 °C rated value210 A• at 60 °C rated value186 A• at 60 °C rated value264 A• at 60 °C rated value222 A• at 60 °C rated value294 A• at 60 °C rated value294 A• at 60 °C rated value200 480 V• at at 0 value200 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit rated value200 480 V• at inside to free of the operating voltage-15 %• relative positive tolerance of the operating voltage10 %	error logbook	Yes; Only in conjunction with special accessories				
 PROFlenergy Yes; in connection with the PROFINET Standard communication module firmware update Yes removable terminal for control circuit torque control analog output No analog output No Power Electronics operational current at 40 °C rated value 210 A at 60 °C rated value 170 A operational current at inside-delta circuit at 40 °C rated value 364 A at 50 °C rated value 322 A at 60 °C rated value 322 A at 60 °C rated value 322 A at 60 °C rated value 340 °C rated value 340 °C rated value 340 °C rated value 340 °C rated value 364 A at 60 °C rated value 322 A at 60 °C rated value 340 °C rated value 340 °C rated value 340 °C rated value 340 °C rated value 350 °C rated value 364 A 364 A 360 °C rated value 364 A 364 A 360 °C rated value 360 °C	 via software parameterizable 	No				
firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputNoPower ElectronicsNooperational current210 A• at 40 °C rated value210 A• at 50 °C rated value186 A• at 60 °C rated value364 A• at 40 °C rated value364 A• at 60 °C rated value220 A• operational current at inside-delta circuit322 A• at 60 °C rated value204 A• at 60 °C rated value204 A• at 60 °C rated value364 A• at 60 °C rated value364 A• at 60 °C rated value364 A• at 60 °C rated value204 A• at 60 °C rated value204 A• at 60 °C rated value200 480 V• at inside-delta circuit rated value210 %	 via software configurable 	Yes				
• removable terminal for control circuitYes• torque controlNo• analog outputNoPower ElectronicsVertical current• at 40 °C rated value210 A• at 50 °C rated value186 A• at 60 °C rated value170 A• operational current at inside-delta circuit364 A• at 50 °C rated value364 A• at 60 °C rated value294 A• at 60 °C rated value294 A• at 60 °C rated value210 480 V• at 60 °C rated value170 480 V• at 60 °C rated value200 480 V• at et value200 480 V• at inside-delta circuit rated value200 480 V• at inside tolerance of the operating voltage-15 %• at inside tolerance of the operating voltage10 %	PROFlenergy	Yes; in connection with the PROFINET Standard communication module				
• torque controlNo• analog outputNoPower Electronicsoperational current210 A• at 40 °C rated value210 A• at 50 °C rated value186 A• at 60 °C rated value70 Aoperational current at inside-delta circuit364 A• at 60 °C rated value364 A• at 60 °C rated value294 A• at 60 °C rated value200 480 V• at 60 °C rated value200 480 V• at inside-delta circuit rated value15 %• relative positive tolerance of the operating voltage10 %	firmware update	Yes				
• analog outputNoPower Electronicsoperational current210 A• at 40 °C rated value210 A• at 50 °C rated value186 A• at 60 °C rated value170 Aoperational current at inside-delta circuit364 A• at 40 °C rated value364 A• at 60 °C rated value322 A• at 60 °C rated value294 Aoperating voltage200 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit rated value115 %relative positive tolerance of the operating voltage10 %	 removable terminal for control circuit 	Yes				
Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at inside-delta circuit rated value • at inside-delta circuit rated value 200 480 V • at inside-delta circuit rated value 200 480 V • at inside-delta circuit rated value 10 %	torque control	No				
operational current210 A• at 40 °C rated value210 A• at 50 °C rated value186 A• at 60 °C rated value170 Aoperational current at inside-delta circuit	analog output	No				
• at 40 °C rated value210 A• at 50 °C rated value186 A• at 60 °C rated value170 Aoperational current at inside-delta circuit70 A• at 40 °C rated value364 A• at 50 °C rated value322 A• at 60 °C rated value294 A• at 60 °C rated value200 480 V• at inside-delta circuit rated value15 %	Power Electronics					
• at 50 °C rated value186 A• at 60 °C rated value170 Aoperational current at inside-delta circuit170 A• at 40 °C rated value364 A• at 50 °C rated value322 A• at 60 °C rated value294 A• at 60 °C rated value200 480 V• at inside-delta circuit rated value10 %	operational current					
• at 60 °C rated value170 Aoperational current at inside-delta circuit• at 40 °C rated value364 A• at 50 °C rated value322 A• at 60 °C rated value294 Aoperating voltage• rated value200 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit rated value200 480 V• relative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %	• at 40 °C rated value	210 A				
operational current at inside-delta circuit• at 40 °C rated value364 A• at 50 °C rated value322 A• at 60 °C rated value294 Aoperating voltage200 480 V• at inside-delta circuit rated value200 480 V• relative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %	• at 50 °C rated value	186 A				
• at 40 °C rated value364 A• at 50 °C rated value322 A• at 60 °C rated value294 Aoperating voltage200 480 V• at inside-delta circuit rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %	• at 60 °C rated value	170 A				
• at 50 °C rated value322 A• at 60 °C rated value294 Aoperating voltage200 480 V• rated value200 480 V• at inside-delta circuit rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %	operational current at inside-delta circuit					
• at 60 °C rated value 294 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 %	• at 40 °C rated value	364 A				
operating voltage 200 480 V • rated value 200 480 V • at inside-delta circuit rated value 200 480 V relative negative tolerance of the operating voltage -15 % relative positive tolerance of the operating voltage 10 %	• at 50 °C rated value	322 A				
• 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 %	• at 60 °C rated value	294 A				
● at inside-delta circuit rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %	operating voltage					
relative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %	rated value	200 480 V				
relative positive tolerance of the operating voltage 10 %	 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 %	relative negative tolerance of the operating voltage at	-15 %				

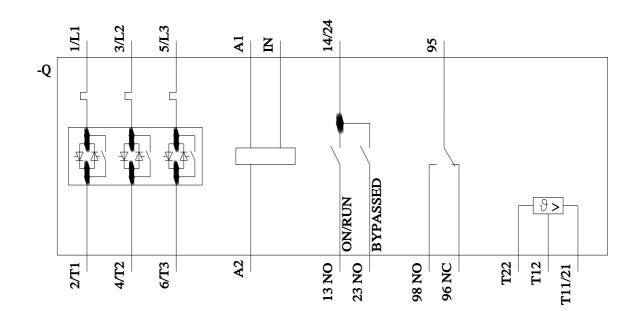
inside-delta circuit	
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
 at 230 V at 40 °C rated value 	55 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	110 kW
 at 400 V at 40 °C rated value 	110 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	200 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
 at rotary coding switch on switch position 1 	90 A
 at rotary coding switch on switch position 2 	98 A
 at rotary coding switch on switch position 3 	106 A
 at rotary coding switch on switch position 4 	114 A
 at rotary coding switch on switch position 5 	122 A
 at rotary coding switch on switch position 6 	130 A
 at rotary coding switch on switch position 7 	138 A
 at rotary coding switch on switch position 8 	146 A
 at rotary coding switch on switch position 9 	154 A
 at rotary coding switch on switch position 10 	162 A
 at rotary coding switch on switch position 11 	170 A
 at rotary coding switch on switch position 12 	178 A
 at rotary coding switch on switch position 13 	186 A
 at rotary coding switch on switch position 14 	194 A
 at rotary coding switch on switch position 15 	202 A
 at rotary coding switch on switch position 16 	210 A
• minimum	90 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	156 A
 for inside-delta circuit at rotary coding switch on switch position 2 	170 A
 for inside-delta circuit at rotary coding switch on switch position 3 	184 A
for inside-delta circuit at rotary coding switch on switch position 4	197 A
 for inside-delta circuit at rotary coding switch on switch position 5 for inside delta circuit at rotary coding switch on switch 	211 A 225 A
 for inside-delta circuit at rotary coding switch on switch position 6 for inside-delta circuit at rotary coding switch on switch 	239 A
 or inside delta circuit at rotary coding switch on switch or inside-delta circuit at rotary coding switch on switch 	253 A
position 8for inside-delta circuit at rotary coding switch on switch	267 A
 position 9 for inside-delta circuit at rotary coding switch on switch 	281 A
 position 10 for inside-delta circuit at rotary coding switch on switch position 11 	294 A
 for inside-delta circuit at rotary coding switch on switch position 12 	308 A
 for inside-delta circuit at rotary coding switch on switch position 13 	322 A
 for inside-delta circuit at rotary coding switch on switch position 14 	336 A
• for inside-delta circuit at rotary coding switch on switch position 15	350 A
 for inside-delta circuit at rotary coding switch on switch position 16 a st inside delta circuit minimum 	364 A
at inside-delta circuit minimum	156 A
minimum load [%] power loss [W] for rated value of the current at AC	15 %; Relative to smallest settable le

	75.14			
• at 40 °C after startup	75 W			
• at 50 °C after startup	68 W			
at 60 °C after startup	63 W			
power loss [W] at AC at current limitation 350 %				
 at 40 °C during startup 	3 562 W			
 at 50 °C during startup 	2 979 W			
 at 60 °C during startup 	2 617 W			
Control circuit/ Control				
type of voltage of the control supply voltage	AC			
control supply voltage at AC				
• at 50 Hz	110 250 V			
• at 60 Hz	110 250 V			
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %			
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %			
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %			
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %			
control supply voltage frequency	50 60 Hz			
relative negative tolerance of the control supply voltage frequency	-10 %			
relative positive tolerance of the control supply voltage frequency	10 %			
control supply current in standby mode rated value	30 mA			
holding current in bypass operation rated value	100 mA			
inrush current by closing the bypass contacts maximum	2.2 A			
inrush current peak at application of control supply voltage maximum	12.2 A			
duration of inrush current peak at application of control supply voltage	2.2 ms			
design of the overvaltage protection	Varistor			
design of the overvoltage protection	Valistor			
design of the overvoltage protection 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			
	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			
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			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs	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			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs o not parameterizable	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			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs onot parameterizable digital output version	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			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs onot parameterizable digital output version number of analog outputs	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			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs	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			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs onot parameterizable digital output version number of analog outputs	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			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 10 mm 0 mm 100 mm			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting oforwards odownwards odownwards odownwards odownwards odownwards	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side weight without packaging	 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 10 mm 5 mm 			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side weight without packaging Connections/ Terminals	 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 10 mm 5 mm 			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side weight without packaging Connections/ Terminals type of electrical connection	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 10 mm 5 mm 9.9 kg			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • upwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current 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 1 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 10 mm 9.9 kg			
design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side weight without packaging	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=300 A); Is not part of scope of supply 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg			

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 DIN cable lug for main contacts stranded 	2x (50 240 mm²)			
 for DIN cable lug for main contacts finely stranded 	2x (70 240 mm²)			
type of connectable conductor cross-sections				
 for control circuit solid 	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)			
 for control circuit finely stranded with core end processing 	1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)			
 for AWG cables for control circuit solid 	1x (20 12), 2x (20 14)			
wire length				
 between soft starter and motor maximum 	800 m			
 at the digital inputs at AC maximum 	100 m			
tightening torque				
 for main contacts with screw-type terminals 	14 24 N·m			
 for auxiliary and control contacts with screw-type 	0.8 1.2 N·m			
terminals				
tightening torque [lbf·in]				
• for main contacts with screw-type terminals	124 210 lbf-in			
 for auxiliary and control contacts with screw-type 	7 10.3 lbf·in			
terminals				
Ambient conditions				
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog			
ambient temperature				
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above			
 during storage and transport 	-40 +80 °C			
environmental category				
 during operation according to IEC 60721 	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2			
	(sand must not get into the devices), 3M6			
 during storage according to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get			
a during transport according to IEC 60721	inside the devices), 1M4			
during transport according to IEC 60721	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)			
Environmental footprint	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)			
Environmental footprint Siemens Eco Profile (SEP)	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech			
Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)			
Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech			
Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A			
Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A			
Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes			
Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes			
Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes			
Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes			
Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes			
Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication / Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes			
Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes			
Environmental footprint Siemens Eco Profile (SEP) 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	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes			
Environmental footprint Siemens Eco Profile (SEP) 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	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes			
Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • 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	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA			
Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • 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 — 60/480 V according to UL	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA			
Environmental footprint Siemens Eco Profile (SEP) 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 — 60/480 V according to UL — at 460/480 V at inside-delta circuit according to UL	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA			
Environmental footprint Siemens Eco Profile (SEP) 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 — 60/480 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	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA			
Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • 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 — 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	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA			
Environmental footprint Siemens Eco Profile (SEP) 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 — 60/480 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	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA			
Environmental footprint Siemens Eco Profile (SEP) 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 — 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	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA			
Environmental footprint Siemens Eco Profile (SEP) 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 — 60/480 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 — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA			
Environmental footprint Siemens Eco Profile (SEP) 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 — 60/480 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 — 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	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Yes			
Environmental footprint Siemens Eco Profile (SEP) 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 — 60/480 V 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 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 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	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Yes			

• at 220/230 V at 50	0 °C rated value		60 hp			
• at 460/480 V at 50	0 °C rated value		150 hp			
• at 200/208 V at in	side-delta circuit at 50 °	°C rated value	100 hp			
• at 220/230 V at inside-delta circuit at 50 °C rated value 125 hp						
• at 460/480 V at inside-delta circuit at 50 °C rated value 250 hp						
contact rating of auxili	arv contacts accordin	a to UL	R300-B300			
Electrical Safety		5.000				
	the front according to	IEC 60529	IP00; IP20 with cover			
				tical contact from the front with cover		
Approvals Certificates						
General Product Appr	ovai					
	CE EG-Konf.	UK CA)		
General Product Approval	EMV		Test Certifica	tes Marine / Shipping	g	
EHC	RCM	<u>KC</u>	<u>Type Test Co</u> ates/Test Ro		BUREAU VERITAS	
Marine / Shipping		other	Environment			
Lloyd's Register uts	PRS	<u>Confirmation</u>	Siemens EcoTech	EPD	Environmental Con- firmations	
Further information						
Information on the pace https://support.industry.s/ Information- and Down https://www.siemens.com Industry Mall (Online of https://mall.industry.siem Cax online generator http://support.automation Service&Support (Man https://support.industry.s/ Image database (produ http://www.automation.s/ Characteristic: Trippin https://support.industry.s/ Characteristic: Installa	siemens.com/cs/ww/en/ hloadcenter (Catalogs, <u>m/ic10</u> ordering system) hens.com/mall/en/en/Ca n.siemens.com/WW/CA uals, Certificates, Cha siemens.com/cs/ww/en/ uct images, 2D dimens iemens.com/bilddb/cax g characteristics, I²t, L siemens.com/cs/ww/en/	Brochures,) atalog/product?mlfb= Xorder/default.aspx/ aracteristics, FAQs, ps/3RW5243-6TC14 sion drawings, 3D n _de.aspx?mlfb=3RW _et-through current	?lang=en&mlfb=3RW52) nodels, device circuit /5243-6TC14⟨=en	2 <u>43-6TC14</u> diagrams, EPLAN macros, .)	





4/19/2024 🖸