SIEMENS



Data sheet 3RW5055-6AB05



SIRIUS soft starter 200-600 V 143 A, 24 V AC/DC Screw terminals Analog output

Figure similar

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW50
manufacturer's article number	
 of standard HMI module usable 	3RW5980-0HS01
 of high feature HMI module usable 	3RW5980-0HF00
 of communication module PROFINET standard usable 	3RW5980-0CS00
 of communication module PROFIBUS usable 	3RW5980-0CP00
 of communication module Modbus TCP usable 	3RW5980-0CT00
 of communication module Modbus RTU usable 	3RW5980-0CR00
 of communication module Ethernet/IP 	3RW5980-0CE00
 of circuit breaker usable at 400 V 	3VA2220-7MN32-0AA0; Type of assignment 1, Iq = 20 kA
 of circuit breaker usable at 500 V 	3VA2220-7MN32-0AA0: Type of assignment 1, Iq = 20 kA
 of the gG fuse usable up to 690 V 	3NA3244-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1 227-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3 334 -0B; Type of coordination 2, Iq = 65 kA
 of line contactor usable up to 480 V 	<u>3RT1055</u>
 of line contactor usable up to 690 V 	<u>3RT1055</u>
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 20 s
ramp-down time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
accuracy class according to IEC 61557-12	5 %
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	2

	01 400 404 / 405 /
trip class	CLASS 10A / 10E (20E, acc. to IEC 60947-4-2
buffering time in the event of power failure	400 mg
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	1 800 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	000 1/
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)	09/23/2019
product function	Voc
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
Soft Torque	Yes
adjustable current limitation	Yes
pump ramp down intrinsis dovice protection	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Electronic motor overload protection
evaluation of thermistor motor protection	No 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 via poftware peremeterizable	Yes; Only in conjunction with special accessories No
via software parameterizable	
via software configurable PROFlorersy	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication module
voltage ramp	Yes
torque control	No
analog output	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
	HMI)
Power Electronics	
operational current	
 at 40 °C rated value 	143 A
 at 50 °C rated value 	128 A
at 60 °C rated value	118 A
operating voltage	
rated value	200 600 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
operating power for 3-phase motors	
 at 230 V at 40 °C rated value 	37 kW
 at 400 V at 40 °C rated value 	75 kW
at 500 V at 40 °C rated value	90 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 	68 A
 at rotary coding switch on switch position 2 	73 A

 at rotary coding switch on switch position 3 	78 A 83 A 88 A
 at rotary coding switch on switch position 4 	83 A
 at rotary coding switch on switch position 5 	88 A Julolituuoliy
 at rotary coding switch on switch position 6 	93 A
 at rotary coding switch on switch position 7 	98 A
 at rotary coding switch on switch position 8 	103 A
 at rotary coding switch on switch position 9 	108 A
 at rotary coding switch on switch position 10 	113 A
 at rotary coding switch on switch position 11 	118 A
 at rotary coding switch on switch position 12 	123 A
 at rotary coding switch on switch position 13 	128 A
 at rotary coding switch on switch position 14 	133 A
 at rotary coding switch on switch position 15 	138 A
 at rotary coding switch on switch position 16 	143 A
• minimum	68 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
 at 40 °C after startup 	23 W
 at 50 °C after startup 	19 W
at 60 °C after startup	16 W
power loss [W] at AC at current limitation 350 $\%$	
 at 40 °C during startup 	1 336 W
 at 50 °C during startup 	1 134 W
at 60 °C during startup	1 007 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at 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 control supply voltage	10 76
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	360 mA
locked-rotor current at close of bypass contact 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
♥ Free	

number of digital outputs	3
not parameterizable	2 2 normally-open co NO) / 1 changeover contact (CO)
digital output version	2 2 normally-open co NO) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	
• at AC-15 at 250 V rated value	3 A
• at DC-13 at 24 V rated value	1 A
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting
mounting position	surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
height	198 mm
width	120 mm
depth	249 mm
required spacing with side-by-side mounting	
• forwards	10 mm
backwards	0 mm
• upwards	100 mm
• downwards	75 mm
at the side	5 mm
weight without packaging	3.2 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	busbar connection
for control circuit	screw-type terminals
width of connection bar maximum	25 mm
type of connectable conductor cross-sections	20 11111
for main contacts for box terminal using the front clamping point solid	16 120 mm²
 for main contacts for box terminal using the front clamping point finely stranded with core end processing 	16 120 mm²
for main contacts for box terminal using the front clamping point finely stranded without core end processing	10 120 mm²
for main contacts for box terminal using the front clamping point stranded	16 70 mm²
 at AWG cables for main contacts for box terminal using the front clamping point 	6 250 kcmil
 for main contacts for box terminal using the back clamping point solid 	16 120 mm²
 at AWG cables for main contacts for box terminal using the back clamping point 	6 250 kcmil
 for main contacts for box terminal using both clamping points solid 	max. 1x 95 mm², 1x 120 mm²
 for main contacts for box terminal using both clamping points finely stranded with core end processing 	max. 1x 95 mm², 1x 120 mm²
 for main contacts for box terminal using both clamping points finely stranded without core end processing 	max. 1x 95 mm², 1x 120 mm²
for main contacts for box terminal using both clamping points stranded	max. 2x 120 mm²
 for main contacts for box terminal using the back clamping point finely stranded with core end processing 	16 120 mm²
 for main contacts for box terminal using the back clamping point finely stranded without core end processing 	10 120 mm²
 for main contacts for box terminal using the back clamping point stranded 	16 120 mm²
type of connectable conductor cross-sections	
 at AWG cables for main current circuit solid 	4 250 kcmil
 for DIN cable lug for main contacts stranded 	16 95 mm²
 for DIN cable lug for main contacts finely stranded 	25 120 mm²

installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during operation according to IEC 60721 • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • Zetz, 22C, 12St, 2Mz (max. fall height 0.3 m) EMC emitted interference communication Protocol communication module is supported • PROFINET standard • PROFINED • Modobus RTU • Modobus RTU • Modobus TCP • PROFIBUS ULCSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults up to 575/600 V according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL • according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL • at 220/230 V at 50 °C rated value • at 480/480 V at 50 °C rated value • at 480/480 V at 50 °C rated value • at 480/480 V at 50 °C rated value • at 480/480 V at 50 °C rated value • at 480/480 V at 50 °C rated value • at 68529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529		
processing	type of connectable conductor cross-sections	diantudana
processing	 for control circuit solid 	1x (0.5 4.0 mm² (0.5 2.5 m n)
at AWC cables for control circuit solid between soft starter and motor maximum at the digital injust is trice and motor maximum to the digital injust is trice and motor maximum at the digital injust is trice and motor maximum to the digital injust is trice and motor maximum at the digital injust is trice and motor maximum to make the digital injust is trice and motor maximum to make the digital injust is trice and motor maximum to make the digital injust is trice and motor maximum to make the digital and control contacts with screw-type terminals to rauxillary and control contacts with screw-type terminals to rauxillary and control contacts with screw-type terminals to rauxillary and control contacts with screw-type terminals arbibiont conditions installation attitude at theight above sea level maximum ambient temperature during operation during storage and transport during operation during storage and transport during operation during storage according to IEC 60721 during operation according to IEC 60721 during to IEC 60721 d		1x (0.5 2.5 mm²) 1.5 mm²)
between soft stater and motor maximum at the digital inputs at AC maximum 1000 m tightning torque for main contacts with screw-type terminals for auxillary and control contacts with screw-type terminals for main contact with screw-type terminals	 at AWG cables for control circuit solid 	1x (20 12), 2x (20 14)
* at the digital inputs at AC maximum * tightening torque * for main contacts with screw-type terminals * for auxiliary and control contacts with screw-type terminals * for auxiliary and zero *	wire length	
### Indicates with screw-type terminals * for main's and control contacts with screw-type terminals * for main's and control contacts with screw-type terminals * for main's and control contacts with screw-type terminals * for main's and control contacts with screw-type terminals * for main's and control contacts with screw-type terminals * for main's and control contacts with screw-type terminals * for main's and screw and the screw-type terminals * for main's and screw and the screw-type terminals * for main's and screw and the screw-type terminals * for main's and screw and the screw-type terminals * for main's and screw-type terminals * during storage and transport * during storage and transport * during storage and transport * during storage according to IEC 60721 * PROFINET standard * PROFINET standard	 between soft starter and motor maximum 	800 m
### Indicates with screw-type terminals * for auxiliary and control contacts with screw-type terminals * for auxiliary and control contacts with screw-type terminals * for auxiliary and control contacts with screw-type terminals * for auxiliary and control contacts with screw-type terminals * for auxiliary and control contacts with screw-type terminals * for auxiliary and control contacts with screw-type terminals * for auxiliary and control contacts with screw-type installation altitude at height above sea level maximum ambient temperature * during peration * during operation * during operation according to IEC 60721 * during peration according to IEC 60721 * during peration according to IEC 60721 * during protection according to IEC 60721 * during transport according to IEC 60721 * PROFINET standard * PROFINED * Of circuit breaker — usable for Standard Faults up to 575600 V according to UL * of the fuse — usable for Standard Faults at 460/480 V according to UL * of the fuse — usable for Standard Faults up to 575600 V according to UL * of the fuse — usable for Standard Faults up to 575600 V according to UL * of the fuse — usable for Standard Faults up to 575600 V according to UL * of the fuse — usable for Standard Faults up to 575600 V according to UL * of the fuse — usable for Standard Faults up to 575600 V according to UL * of the fuse — usable for Standard Faults up to 575600 V according to UL * of the fuse — usable for Standard Faults up to 575600 V according to UC * of the fuse — usable for Standard Faults up to 575600 V according to UL * of the fuse — usable for Standard Faults up to 575600 V according to UC * of the fuse — usable for Standard Faults up to 575600 V according to UC * of the fuse — usa	 at the digital inputs at AC maximum 	1 000 m
For mail contacts with screw-type terminals For auxiliary and control contacts with screw-type terminals ### Section of Control Cont		
• for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for the diverse • for auxiliary and control contact from the front with cover • for the diverse • for auxiliary and control contact from the front with cover • for the diverse • for auxiliary and control contact from the front with cover • for auxiliary and control contact from the front with cover • for auxiliary and control contact from the front with cover • for auxiliary and control contact from the front with cover • for auxiliary and contr		10 14 N·m
tightening torque [lbf-ir] for main contacts with screw-type terminals for main contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during operation during operation according to IEC 60721 during storage and transport during storage according to IEC 60721 during storage according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 during transport according to IEC 60721 EMC emitted interference Communication Protocol Communication Protocol Communication Protocol Communication Protocol Communication Protocol Communication Protocol Communication Figure 2 PROFIBUS UICSA ratings manufacturer's article number of circuit breaker usable for Standard Faults up to 575/600 V according to U. of the fuse usable for Figh Faults up to 575/600 V according to U. e at 400/480 V at 50 °C rated value at 575/680 V according to U. protection class IP on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover Type: Class I, max. 350 A; Iq = 100 KA protoction class IP on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover final full full full formic according to IEC 61508 protection of ATEX Ves hardware fault tolerance according to IEC 61508 at 100 Class RKS / KS, max. 250 A; Iq = 100 KA condition of the front according to IEC 60529 finger-safe, for vertical contact from the front with cover finger-safe, for vertical contact from the front with cover final full full full full full full full fu		0.8 1.2 N·m
• for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals *Ambient conditions installation altitude at height above sea level maximum *ambient temperature • during operation • during storage and transport • during storage and transport • during storage and cording to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 **EMC emitted interference **Communication** Protocol **	terminals	
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Ambient conditions installation altitude at height above sea level maximum amblent temperature • during operation • during storage and transport • during storage and transport • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage 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 • PROFINET standard • PROFINET standard • PROFINES UIUCSA ratings **UUCSA ratings** **u usable for Standard Faults at 460/480 V according to UL • u usable for Standard Faults at 460/480 V according to UL • u usable for High Faults up to 575/600 V according to UL • u usable for Faults and value • at 220/230 V at 50 °C rated value • at 220/230 V at 50 °C rated value • at 220/230 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 575/600 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 575/600 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 50 °C rated value • at 860/480 V at 5	 for main contacts with screw-type terminals 	89 124 lbf·in
instaliation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during storage and transport • during storage and according to IEC 60721 • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • PROFINET standard • PPOFINET standard • PPOFINET standard • PPOFINET standard • PPOFINET standard • PPOFINES • Wes • Stenhetvilip • Modous RTU • Modous TCP • PPOFIBUS WICSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for Falls up to 575/600 V according to UL • operating power (hp) for 3-phase motors • at 200/208 V at 50 °C rated value • at 200/230 V at 50 °C rated value • at 640/480 V at 50 °C rated value • at 640/480 V at 50 °C rated value • at 640/480 V at 50 °C rated value • at 650/480 V at 50 °C rated value • at 650/480 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50		7 10.3 lbf·in
### Standard Faults up to 575/600 V according to ILC up to 1 standard Faults up to 1 standard Fa	Ambient conditions	
• during operation • during storage and transport • during storage and transport • during operation according to IEC 60721 • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference communication Module is supported • PROFINET standard • PROFINET standard • PROFIBUS Ves • Modbus TU • Modbus TU • Of circuit breaker — usable for Standard Faults at 460/480 V according to IU. • of the fuse — usable for Standard Faults up to 575/600 V according to IU. • outselve for Standard Faults up to 575/600 V according to IU. • operating power (Ip) for 3-phase motors • at 200/208 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 375/600 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 375/600 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 575/600 V at 50 °C rated value • at 575/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • ATEX • AT	installation altitude at height above sea level maximum	5 000 m; derating as of 1000 m, see Manual
above - during storage and transport - 40 +80 °C - 40 °C -		
environmental category • during operation according to IEC 60721 • during storage 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 RTU • Modbus RTU • Yes • Modbus RTU • Yes • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to IEC for tated value • at 220/230 V at 50 °C rated value • at 220/230 V at 50 °C rated value • at 575/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 675/600 V at 50 °C rat	during operation	
• during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference communication Protocol communication module is supported • PROFINET standard • PROFINET standard • PROFINET standard • PROFISES U/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL • of table fuse • at 200/208 V at 50 °C rated value • at 480/480 V at 50 °C rated value • at 480/480 V at 50 °C rated value • at 480/480 V at 50 °C rated value • at 480/480 V at 50 °C rated value • at 480/480 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 575/600 V at 50 °C rated value • at 675/600 V at 50 °C rated	 during storage and transport 	-40 +80 °C
mist), 352 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Communication Protocol Communication Protocol Communication module is supported PROFINET standard PROFINET standard PROFINET standard PROFINED PROFIBUS Modbus TCP PROFIBUS Ves PROFIBUS Wes UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for Igh Faults up to 575/600 V according to UL — usable for Igh Faults up to 575/600 V according to UL Operating power [hp] for 3-phase motors of at 200/209 V at 50 °C rated value of 460/480 V at 50 °C rated value of 5529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection	environmental category	
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during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-4-2: Class A Communication module is supported PROFINET standard Yes EtherNet/IP Yes Modbus RTU Yes PROFIBUS Yes UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Tiph Faults up to 575/600 V according to UL — usable for Crated value at 200/208 V at 50 °C rated value at 420/230 V at 50 °C rated value at 440/480 V at 50 °C rated value at 4575/600 V at 50 °C rated value at 4575/600 V at 50 °C rated value at 4575/600 V at 50 °C rated value at 575/600 V at 50 °C rated value	 during storage according to IEC 60721 	
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— usable for High Faults up to 575/600 V according to UL operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value • at 220/230 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 575/600 V at 50 °C rated value • at 575/600 V at 50 °C rated value • at 575/600 V at 50 °C rated value • at 575/600 V at 50 °C rated value protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 ATEX certificate of suitability • ATEX • IECEX hardware fault tolerance according to IEC 61508 relating to ATEX 0 Type: Class J, max. 350 A; Iq = 100 kA 40 hp 40 hp 40 hp 100 hp 125 hp 1P00; IP20 with cover 60529 finger-safe, for vertical contact from the front with cover Yes 1POS ATEX Yes	— usable for Standard Faults up to 575/600 V	Type: Class RK5 / K5, max. 350 A; lq = 10 kA
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operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value	9 1	Type: Class J, max. 350 A, Iq = 100 KA
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	PFDavg with low demand rate according to IEC 61508	0.09

relating to ATEX

PFHD with high demand rate according to EN 62061 relating to ATEX

Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX

T1 value for proof test interval or service life according to IEC 61508 relating to ATEX

3 y

Certificates/ approvals

General Product Approval

For use in hazardous locations





Confirmation







For use in hazardous locations Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







other

Confirmation

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5055-6AB05

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5055-6AB05}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5055-6AB05

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5055-6AB05&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RW5055-6AB05/char

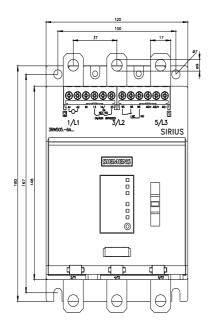
Characteristic: Installation altitude

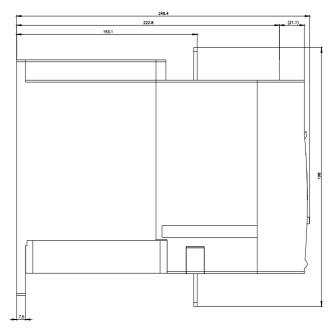
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5055-6AB05\&objecttype=14\&gridview=view1}$

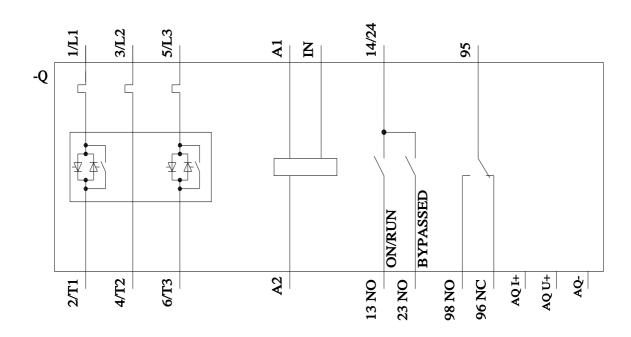
Simulation Tool for Soft Starters (STS)

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









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