SIEMENS

Data sheet

3RW5514-3HA15



SIRIUS soft starter 200-600 V 18 A, 110-250 V AC spring-type terminals

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW55
manufacturer's article number	
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>
 of communication module PROFINET high-feature usable 	<u>3RW5950-0CH00</u>
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>
 of circuit breaker usable at 400 V 	3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4DA10; Type of coordination 1, Iq = 15 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3820-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3820-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1802-0; Type of coordination 2, Iq = 65 kA</u>
 of back up P fuse link for semiconductor protection 	3NE8020-1: Type of coordination 2. In = 65 kA

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

3NE8020-1; Type of coordination 2, Iq = 65 kA

General technical data

General technical data	
starting voltage [%]	20 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 360 s
ramp-down time of soft starter	0 360 s
start torque [%]	10 100 %
stopping torque [%]	10 100 %
torque limitation [%]	20 200 %
current limiting value [%] adjustable	125 800 %
breakaway voltage [%] adjustable	40 100 %
breakaway time adjustable	0 2 s
number of parameter sets	3
accuracy class	5 (based on IEC 61557-12)
certificate of suitability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component	
HMI-High Feature	Yes

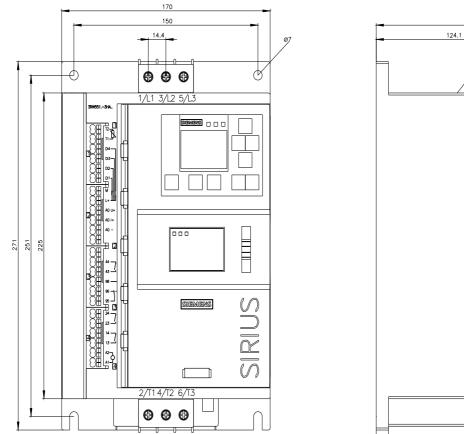
 is supported HMI-High Feature 	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
buffering time in the event of power failure	
for main current circuit	100 ms
for control circuit	100 ms
idle time adjustable	0 255 s
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 600 V
service factor	1.15
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	0 KV
	600 V/: does not apply for thermister connection
between main and auxiliary circuit shock resistance	600 V; does not apply for thermistor connection
	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz 60 1 800 s
recovery time after overload trip adjustable utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
product function	N
• ramp-up (soft starting)	Yes
ramp-down (soft stop)	Yes
breakaway pulse	Yes
adjustable current limitation	Yes
creep speed in both directions of rotation	Yes
pump ramp down	Yes
• DC braking	Yes
motor heating	Yes
slave pointer function	Yes
• trace function	Yes
intrinsic device protection	Yes
 motor overload protection 	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.
 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick
inside-delta circuit	Yes
auto-RESET	Yes
manual RESET	Yes
remote reset	Yes
 communication function 	Yes
 operating measured value display 	Yes
event list	Yes
error logbook	Yes
 via software parameterizable 	Yes
 via software configurable 	Yes
screw terminal	No
 spring-loaded terminal 	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules
firmware update	Yes
 removable terminal for control circuit 	Yes
 voltage ramp 	Yes
torque control	Yes
 combined braking 	Yes
 analog output 	Yes; 4 20 mA (default) / 0 10 V
 programmable control inputs/outputs 	Yes
 condition monitoring 	Yes

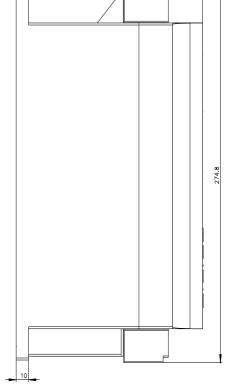
	N
automatic parameterisation	Yes
application wizards	Yes
alternative run-down	Yes
 emergency operation mode 	Yes
 reversing operation 	Yes
 soft starting at heavy starting conditions 	Yes
Power Electronics	
operational current	
 at 40 °C rated value 	18 A
 at 40 °C rated value minimum 	3.5 A
• at 50 °C rated value	15.9 A
• at 60 °C rated value	13.8 A
operational current at inside-delta circuit	
 at 40 °C rated value 	31.5 A
• at 50 °C rated value	28 A
• at 60 °C rated value	23.9 A
operating voltage	
• rated value	200 600 V
 at inside-delta circuit rated value 	200 600 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	4 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	7.5 kW
• at 400 V at 40 °C rated value	7.5 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	15 kW
• at 500 V at 40 °C rated value	11 kW
 at 500 V at inside-delta circuit at 40 °C rated value 	18.5 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 %
minimum load [%]	10 %; Relative to set le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup	5 W
● at 50 °C after startup	5 W
● at 60 °C after startup	4 W
power loss [W] at AC at current limitation 350 %	
● at 40 °C during startup	266 W
● at 50 °C during startup	229 W
● at 60 °C during startup	188 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
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	10 %

fromoney	
frequency control supply current in standby mode rated value	100 mA
holding current in bypass operation rated value	165 mA
inrush current by closing the bypass contacts maximum	
	0.2 A
inrush current peak at application of control supply voltage maximum	43 A
duration of inrush current peak at application of control supply voltage	1.6 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	4
parameterizable	4
 number of digital outputs 	4
 number of digital outputs parameterizable 	3
 number of digital outputs not parameterizable 	1
digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	
• at AC-15 at 250 V rated value	3 A
• at DC-13 at 24 V rated value	1 A
Installation/ mounting/ dimensions	
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
fastening method	screw fixing
height	275 mm
width	170 mm
depth	152 mm
required spacing with side-by-side mounting	
• forwards	10 mm
backwards	0 mm
• upwards	100 mm
downwards	75 mm
• at the side	5 mm
weight without packaging	2.3 kg
Connections/ Terminals	2.0 kg
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type of electrical connection	acrow two torreinels
for main current circuit	screw-type terminals
for control circuit	spring-loaded terminals
wire length for thermistor connection	50 m
• with conductor cross-section = 0.5 mm ² maximum	50 m
• with conductor cross-section = 1.5 mm ² maximum	150 m
with conductor cross-section = 2.5 mm ² maximum	250 m
type of connectable conductor cross-sections	
for main contacts	$2 + (4.0 - 2.5 mm^2) + (2.5 - 4.0 mm^2)$
— solid	2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²)
— finely stranded with core end processing	2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²)
for AWG cables for main current circuit solid	2x (16 12), 2x (14 8)
type of connectable conductor cross-sections	
for control circuit solid	2x (0.25 1.5 mm ²)
• for control circuit finely stranded with core end processing	2x (0.25 1.5 mm ²)
for AWG cables for control circuit solid	2x (24 16)
 for AWG cables for control circuit finely stranded with core end processing 	2x (24 16)
wire length	
 between soft starter and motor maximum 	800 m
 at the digital inputs at DC maximum 	1 000 m
Ambient conditions	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
ambient temperature	

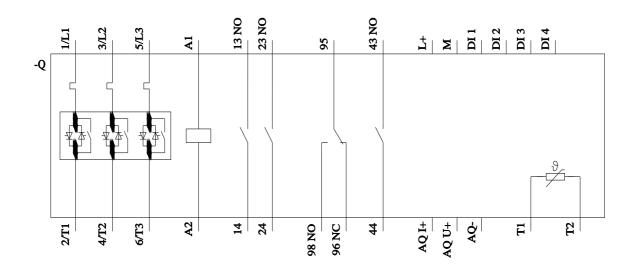
environment category edving specialize according to EEC 60721 edving storage according to UE edving storage according	during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
- during speciation according to IEC 60721 - during storage according to IEC 6072 - during to Fish act 675600 V according to IEC 60722 - during to Fish act 675600 V according to IEC 60724 - during to Fish act 675600 V according to IEC 60724 - during to Fish act 675600 V according to IEC 60724 - during to Fish act 675600 V according to IEC 60724 - during to Fish act 675600 V according to IEC 60724 - during to Fish act 675600 V according to IEC 60724 - during to Fish act 675600 V according to IEC 60724 - during to Fish act 675600 V according to IEC 60724 - during to Fish act 675600 V according to IEC 60724 - during to Fish act 675600 V according to IEC 60724 - during to Fish act 675600 V according to IEC 60724 - during to Fish act 675600 V according to	 during storage and transport 	-25 +80 °C
	environmental category	
eduring transport according to IEC 69721 2R2, 2C, 2S3, 3A2 (runx, full height 0.3 m) acc, to IEC 6047/4-2; Class A, Class B on request Communication module is supported PROFINET Ingh-feature No PROFINET Ingh-feature No Nobubs RTU No No Nobubs RTU No Nobubs RTU No Nobubs RTU No Nobubs RTU No No No Nobubs RTU No Nobubs RTU No No No No No No Nobubs RTU No	 during operation according to IEC 60721 	
EMC emitted interference pace to IEC 60947-42: Class A, Class B on request Communication module is supported • PROFINET significant No • PROFINET fight-failure No • • Modules RTU No • • PROFINET standard Yes • • PROFINET maintain formation Yes • • Of circuit forwater • • • • Of circuit forwater • • • • usable for High Faults at 400480 V according to U. • • • • usable for High Faults at 575600 V at inside defla • • • • usable for High Faults at 575600 V at inside defla • • • • usable for High Faults at 575600 V at inside defla • • • • usable for High Faults at 575600 V at inside defla • • • • usable for High Faults at 575600 V at inside defla	during storage according to IEC 60721	
Communication module is supported PROFINET standard Yes • PROFINET isofactad No • Etherkei/P No • Modub GP No • Modub TCP No • UL05A strateging Yes • PROFIBUS Yes • UL05A strateging Yes • usable for Standard Faults at 460/480 V according to UL Siemens type: 3fV2742, max. 60 A or 3VA61, max. 60 A, lg = 5 kA • usable for trigh Faults at 460/480 V al inside-detta cricuit according to UL Siemens type: 3fV2742, max. 60 A or 3VA61, max. 60 A, lg = 5 kA • usable for trigh Faults at 460/480 V at inside-detta cricuit according to UL Siemens type: 3fV2742, max. 60 A or 3VA61, max. 60 A, lg = 5 kA • usable for Standard Faults at 575600 V at inside-detta cricuit according to UL Siemens type: 3fV2742, max. 70 A, lg = 5 kA • usable for Standard Faults at 575600 V according to UL Type: Class J/L, max. 70 A, lg = 5 kA • usable for Standard Faults at 575600 V according to UL Type: Class J/L, max. 70 A, lg = 5 kA • at 200208 V at 50 °C mater value 3 hp • 375600 V according to UL Type: Class J/L, max. 70 A, lg = 5 kA • 10 to Patient at attriat triate-detta circuit up to 575600 V according to UL Type: Class J/L, max. 70 A, lg = 5 kA <	 during transport according to IEC 60721 	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
communication module is supported Yes No No No No Modules TU - Usable for Standard Faults at 404480 V according to U. - Usable for Standard Faults at 404480 V according to U. - Usable for Standard Faults at 404480 V at inside-deta circuit according to U. - Usable for Standard Faults at 575600 V according to U. - Usable for Standard Faults at 575600 V according to U. - Usable for Standard Faults at 575600 V according to U. - Usable for Standard Faults at 575600 V according to U. - Usable for Standard Faults at 575600 V according to U. - Usable for Standard Faults at 575600 V according to U. Siemens type: SNV274	EMC emitted interference	acc. to IEC 60947-4-2: Class A, Class B on request
• PROFINET taindard Yes • PROFINET high-feature No • Etherkel/P No • Modulus RTU No • Modulus TCP Yes • PROFINETS Yes • ULCSA relines Yes • ULCSA relines Sements byes: SRV2742, max. 60 A or 3VA51, max. 50 A; lq = 5 KA • usable for High Faults at 460480 V according to UL Sements byes: SRV2742, max. 60 A or 3VA51, max. 50 A; lq = 5 KA • usable for High Faults at 460480 V at inside-detta crout according to UL Sements byes: SRV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 KA • usable for High Faults at 450480 V at inside-detta crout according to UL Sements byes: SRV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 KA • usable for Standard Faults at 575600 V at inside-detta crout according to UL Sements byes: SRV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 KA • of the fuse Sements byes: SRV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 KA • of the fuse Sements byes: SRV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 KA • of the fuse Sements byes: SRV2742, max. 70 A; lq = 100 KA • usable for Standard Faults at 575600 V at inside-detta circuit up to 575600 V at 575600 V according to UL Type: Class JK5 / KS, max. 70 A; lq = 5 KA • of the fuse Sements byes: SRV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 KA • of the fuse Sements byes: SRV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 KA • of 20000	Communication/ Protocol	
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Hondwolf P Modbus RTU M	PROFINET standard	Yes
Hondwolf P Modbus RTU M	PROFINET high-feature	No
Modbus RTU Modbus TCP PROFRBUS Ves PROFRBUS Ves V	-	No
Modbus TCP PROFIBUS Yes		
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manufacturer's article number • of circuit breaker		
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delta circuit according to UL. usable for Shandard Faults up to 575/600 V according to UL. usable for High Faults up to 575/600 V according to U. usable for Shandard Faults at inside-delta circuit up to 575/600 V according to UL. usable for Shandard Faults at inside-delta circuit up to 575/600 V according to UL. usable for High Faults at inside-delta circuit up to 575/600 V according to UL. usable for High Faults at inside-delta circuit up to 575/600 V according to UL. operating power [hp] for 3-phase motore at 200/208 V at 50 °C rated value to 200/208 V at inside-delta circuit at 50 °C rated value to 200/208 V at inside-delta circuit at 50 °C rated value to 200/208 V at inside-delta circuit at 50 °C rated value to 200/208 V at inside-delta circuit at 50 °C rated value to 200/208 V at inside-delta circuit at 50 °C rated value to 200/208 V at inside-delta circuit at 50 °C rated value to 200/208 V at inside-delta circuit at 50 °C rated value to 200/208 V at inside-delta circuit at 50 °C rated value to 200/208 V at inside-delta circuit at 50 °C rated value to 200/208 V at inside-delta circuit at 50 °C rated value to 200/208 V at inside-delta circuit at 50 °C rated value to 200/208 V at inside-delta circuit at 50 °C rated value to 200/208 V at inside-delta circui	circuit according to UL	Siemens type: 3VA51, max. 35 A; lq max = 65 kA
	delta circuit according to UL	Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA
according to UL usable for High Faults up to 575/600 V according to UL usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL usable for High Faults at inside-delta circuit up to 575/600 V according to UL operating power (hip) for 3-phase motors at 200/208 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 460/480 V at 50 °C rated value at 55/600 V according to UL at 55/600 V according to 3-phase motors 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 by at 50 °C rated value at 50 °C rated value at 50 °C rated value by at 50 °C rated value contact rating of auxiliary contacts according to UL protection on the front according to IEC 60529 finger-safe, for vertical contact from the front according to ATEX directive 2014/34/EU ty es by 518 ATEX F 003 X type of protection according to IEC 61508 relating to 0		
UL Type: Class RK5 / K5, max. 70 A; lq = 5 kA	•	Type: Class RK5 / K5, max. 70 A; Iq = 5 kA
to 575/600 V according to UL 	o	Type: Class J / L, max. 70 A; Iq = 100 kA
575/600 V according to UL An	•	Type: Class RK5 / K5, max. 70 A; Iq = 5 kA
• at 200/208 V at 50 °C rated value 3 hp • at 220/230 V at 50 °C rated value 5 hp • at 460/480 V at 50 °C rated value 10 hp • at 575/600 V at 50 °C rated value 10 hp • at 220/230 V at inside-delta circuit at 50 °C rated value 7.5 hp • at 220/230 V at inside-delta circuit at 50 °C rated value 7.5 hp • at 220/230 V at inside-delta circuit at 50 °C rated value 7.5 hp • at 220/230 V at inside-delta circuit at 50 °C rated value 20 hp • at 460/480 V at inside-delta circuit at 50 °C rated value 20 hp • at 450/480 V at inside-delta circuit at 50 °C rated value 25 hp contact rating of auxiliary contacts according to UL R300-B300 Safety related data protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 Inger-safe, for vertical contact from the front electromagnetic compatibility acc. to IEC 60947-4-2 ATEX Yes • IECEx Yes • according to ATEX directive 2014/34/EU BVS 18 ATEX F 003 X type of protection according to IEC 61508 relating to 0		Type: Class J / L, max. 70 A; lq = 100 kA
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 e at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value 25 hp contact rating of auxiliary contacts according to UL R300-B300 Safety related data protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 electromagnetic compatibility acc. to IEC 60947-4-2 ATEX e Certificate of suitability ATEX i IECEx according to ATEX directive 2014/34/EU BVS 18 ATEX F 003 X It (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb] hardware fault tolerance according to IEC 61508 relating to 	• at 575/600 V at 50 °C rated value	10 hp
• at 460/480 V at inside-delta circuit at 50 °C rated value20 hp• at 575/600 V at inside-delta circuit at 50 °C rated value25 hpcontact rating of auxiliary contacts according to ULR300-B300Safety related dataIP20protection class IP on the front according to IEC 60529IP20touch protection on the front according to IEC 60529finger-safe, for vertical contact from the frontelectromagnetic compatibilityacc. to IEC 60947-4-2ATEXYes• IECExYes• IECExYes• according to ATEX directive 2014/34/EUBVS 18 ATEX F 003 Xtype of protection according to IEC 61508 relating toII (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db], I (M2) [Ex db Mb]hardware fault tolerance according to IEC 61508 relating to0	 at 200/208 V at inside-delta circuit at 50 °C rated value 	7.5 hp
• at 575/600 V at inside-delta circuit at 50 °C rated value 25 hp contact rating of auxiliary contacts according to UL R300-B300 Safety related data	• at 220/230 V at inside-delta circuit at 50 °C rated value	7.5 hp
contact rating of auxiliary contacts according to UL R300-B300 Safety related data protection class IP on the front according to IEC 60529 protection on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front electromagnetic compatibility acc. to IEC 60947-4-2 ATEX Yes • ATEX Yes • IECEx Yes • according to ATEX directive 2014/34/EU BVS 18 ATEX F 003 X type of protection according to IEC 61508 relating to II (2)G [Ex eb Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]	• at 460/480 V at inside-delta circuit at 50 °C rated value	20 hp
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Safety related data protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front electromagnetic compatibility acc. to IEC 60947-4-2 ATEX Certificate of suitability • ATEX Yes • IECEx Yes • according to ATEX directive 2014/34/EU BVS 18 ATEX F 003 X type of protection according to ATEX directive 2014/34/EU II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb] hardware fault tolerance according to IEC 61508 relating to 0	contact rating of auxiliary contacts according to UL	R300-B300
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		61508 relating SIL1			
ertificates/ approvals					
General Product Approva	al				EMC
		<u>Confirmation</u>	(U) u	EHC	RCM
For use in hazardous loc	ations	Declaration of Con- formity	Test Certificates	Marine / Shipping	
IECEX	KEx ATEX	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	ABS	BUREAU VERITAS
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