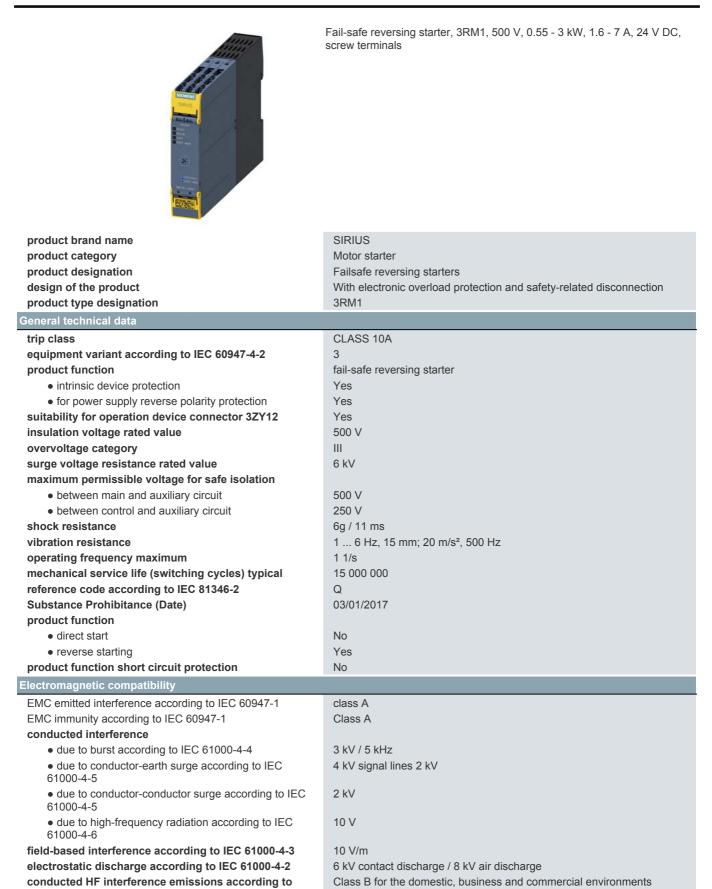
SIEMENS

Data sheet

3RM1307-1AA04



CISPR11

field-bound HF interference emission according to	
CISPR11	

Class B for the domestic, business and commercial environments

Safety related data	
safety device type according to IEC 61508-2	Туре В
B10d value	2 500 000
Safety Integrity Level (SIL) according to IEC 61508	3
SIL Claim Limit (subsystem) according to EN 62061	SILCL 3
performance level (PL) according to EN ISO 13849-1	е
category according to EN ISO 13849-1	4
stop category according to EN 60204-1	0
Safe failure fraction (SFF)	99 %
average diagnostic coverage level (DCavg)	99 %
diagnostics test interval by internal test function	600 s
maximum	
function test interval maximum	1 y
failure rate [FIT]	
 at rate of recognizable hazardous failures (λdd) 	1 400 FIT
 at rate of non-recognizable hazardous failures (λdu) 	16 FIT
PFHD with high demand rate according to EN 62061	0.0000002 1/h
PFDavg with low demand rate according to IEC 61508	0
MTTFd	75 y
hardware fault tolerance according to IEC 61508	1
safe state	Load circuit open
protection class IP on the front according to IEC	IP20
60529	
touch protection on the front according to IEC 60529	finger-safe
hardware fault tolerance according to IEC 61508	0
relating to ATEX	
PFDavg with low demand rate according to IEC 61508	0.0005
relating to ATEX	
PFHD with high demand rate according to EN 62061 relating to ATEX	0.0000005 1/h
Safety Integrity Level (SIL) according to IEC 61508	SIL2
relating to ATEX	SILZ
•	3 у
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 у
T1 value for proof test interval or service life	3 у
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Main circuit number of poles for main current circuit	3
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Main circuit number of poles for main current circuit design of the switching contact	3 Hybrid
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX <u>Main circuit</u> number of poles for main current circuit design of the switching contact adjustable current response value current of the	3
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX <u>Main circuit</u> number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release	3 Hybrid 1.6 7 A
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX <u>Main circuit</u> number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%]	3 Hybrid 1.6 7 A 20 %; from set rated current
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection	3 Hybrid 1.6 7 A 20 %; from set rated current solid-state
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value	3 Hybrid 1.6 7 A 20 %; from set rated current solid-state 48 500 V
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating	3 Hybrid 1.6 7 A 20 %; from set rated current solid-state
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating voltage	3 Hybrid 1.6 7 A 20 %; from set rated current solid-state 48 500 V 10 %
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX <u>Main circuit</u> number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating voltage operating frequency 1 rated value	3 Hybrid 1.6 7 A 20 %; from set rated current solid-state 48 500 V 10 % 50 Hz
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX <u>Main circuit</u> number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating voltage operating frequency 1 rated value operating frequency 2 rated value	3 Hybrid 1.6 7 A 20 %; from set rated current solid-state 48 500 V 10 % 50 Hz 60 Hz
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX <u>Main circuit</u> number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating voltage operating frequency 1 rated value	3 Hybrid 1.6 7 A 20 %; from set rated current solid-state 48 500 V 10 % 50 Hz
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX <u>Main circuit</u> number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating voltage operating frequency 1 rated value operating frequency 2 rated value relative symmetrical tolerance of the operating	3 Hybrid 1.6 7 A 20 %; from set rated current solid-state 48 500 V 10 % 50 Hz 60 Hz
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating voltage operating frequency 1 rated value relative symmetrical tolerance of the operating frequency	3 Hybrid 1.6 7 A 20 %; from set rated current solid-state 48 500 V 10 % 50 Hz 60 Hz
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX <u>Main circuit</u> number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating voltage operating frequency 1 rated value operating frequency 2 rated value relative symmetrical tolerance of the operating frequency operational current	3 Hybrid 1.6 7 A 20 %; from set rated current solid-state 48 500 V 10 % 50 Hz 60 Hz 10 %
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX <u>Main circuit</u> number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating voltage operating frequency 1 rated value operating frequency 2 rated value relative symmetrical tolerance of the operating frequency operational current • at AC at 400 V rated value	3 Hybrid 1.6 7 A 20 %; from set rated current solid-state 48 500 V 10 % 50 Hz 60 Hz 10 %
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating voltage operating frequency 1 rated value relative symmetrical tolerance of the operating frequency operational current • at AC at 400 V rated value • at AC-3 at 400 V rated value	3 Hybrid 1.6 7 A 20 %; from set rated current solid-state 48 500 V 10 % 50 Hz 60 Hz 10 % 7 A 7 A
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating voltage operating frequency 1 rated value relative symmetrical tolerance of the operating frequency 2 rated value relative symmetrical tolerance of the operating frequency operational current • at AC at 400 V rated value • at AC-33 at 400 V rated value • at AC-53a at 400 V at ambient temperature 40 °C rated value ampacity when starting maximum	3 Hybrid 1.6 7 A 20 %; from set rated current solid-state 48 500 V 10 % 50 Hz 60 Hz 10 % 7 A 7 A
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating voltage operating frequency 1 rated value operating frequency 2 rated value relative symmetrical tolerance of the operating frequency operational current • at AC at 400 V rated value • at AC-3 at 400 V rated value • at AC-53 at 400 V at mbient temperature 40 °C rated value ampacity when starting maximum operating power for 3-phase motors at 400 V at 50 Hz	3 Hybrid 1.6 7 A 20 %; from set rated current solid-state 48 500 V 10 % 50 Hz 60 Hz 10 % 7 A 7 A 7 A 7 A
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating voltage operating frequency 1 rated value relative symmetrical tolerance of the operating frequency 2 rated value relative symmetrical tolerance of the operating frequency operational current • at AC at 400 V rated value • at AC-33 at 400 V rated value • at AC-53a at 400 V at ambient temperature 40 °C rated value ampacity when starting maximum	3 Hybrid 1.6 7 A 20 %; from set rated current solid-state 48 500 V 10 % 50 Hz 60 Hz 10 % 7 A 7 A 7 A 7 A 7 A
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating voltage operating frequency 1 rated value operating frequency 2 rated value relative symmetrical tolerance of the operating frequency operational current • at AC at 400 V rated value • at AC-3 at 400 V rated value • at AC-53 at 400 V at mbient temperature 40 °C rated value ampacity when starting maximum operating power for 3-phase motors at 400 V at 50 Hz	3 Hybrid 1.6 7 A 20 %; from set rated current solid-state 48 500 V 10 % 50 Hz 60 Hz 10 % 7 A 7 A 7 A 7 A 56 A 0.55 3 KW
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating voltage operating frequency 1 rated value operating frequency 2 rated value relative symmetrical tolerance of the operating frequency operational current • at AC at 400 V rated value • at AC-53 at 400 V rated value	3 Hybrid 1.6 7 A 20 %; from set rated current solid-state 48 500 V 10 % 50 Hz 60 Hz 10 % 7 A 7 A 7 A 7 A 56 A 0.55 3 KW
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating voltage operating frequency 1 rated value operating frequency 2 rated value relative symmetrical tolerance of the operating frequency operational current • at AC at 400 V rated value • at AC-3 at 400 V rated value • at AC-53 at 400 V rated value ampacity when starting maximum operating power for 3-phase motors at 400 V at 50 Hz derating temperature Inputs/ Outputs	3 Hybrid 1.6 7 A 20 %; from set rated current solid-state 48 500 V 10 % 50 Hz 60 Hz 10 % 7 A 7 A 7 A 7 A 56 A 0.55 3 KW
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating voltage operating frequency 1 rated value operating frequency 2 rated value relative symmetrical tolerance of the operating frequency operational current ● at AC at 400 V rated value ● at AC-33 at 400 V rated value ● at AC-53 at 400 V rated value ● at AC-53 at 400 V rated value ■ ampacity when starting maximum operating power for 3-phase motors at 400 V at 50 Hz derating temperature Inputs/ Outputs ■ at DC rated value ● with signal <0> at DC	3 Hybrid 1.6 7 A 20 %; from set rated current solid-state 48 500 V 10 % 50 Hz 60 Hz 10 % 7 A 7 A 7 A 7 A 7 A 56 A 0.55 3 kW 40 °C 24 V 0 5 V
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating voltage operating frequency 1 rated value operating frequency 2 rated value relative symmetrical tolerance of the operating frequency operational current • at AC at 400 V rated value • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value mapacity when starting maximum operating power for 3-phase motors at 400 V at 50 Hz derating temperature Inputs/ Outputs input voltage at digital input • at DC rated value	3 Hybrid 1.6 7 A 20 %; from set rated current solid-state 48 500 V 10 % 50 Hz 60 Hz 10 % 7 A 7 A 7 A 7 A 7 A 56 A 0.55 3 kW 40 °C
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating voltage operating frequency 1 rated value operating frequency 2 rated value relative symmetrical tolerance of the operating frequency operational current ● at AC at 400 V rated value ● at AC-33 at 400 V rated value ● at AC-53 at 400 V rated value ● at AC-53 at 400 V rated value ■ ampacity when starting maximum operating power for 3-phase motors at 400 V at 50 Hz derating temperature Inputs/ Outputs ■ at DC rated value ● with signal <0> at DC	3 Hybrid 1.6 7 A 20 %; from set rated current solid-state 48 500 V 10 % 50 Hz 60 Hz 10 % 7 A 7 A 7 A 7 A 7 A 56 A 0.55 3 kW 40 °C 24 V 0 5 V

e for signal <1> at DC	8 mA
• for signal <1> at DC	
 with signal <0> at DC number of CO contacts for auxiliary contacts 	1 mA 1
operational current of auxiliary contacts at AC-15 at	3 A
230 V maximum	
operational current of auxiliary contacts at DC-13 at 24 V maximum	1 A
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	19.2 30 V
relative negative tolerance of the control supply voltage at DC	20 %
relative positive tolerance of the control supply voltage at DC	25 %
control supply voltage 1 at DC rated value	24 V
operating range factor control supply voltage rated	
value at DC	
initial value	0.8
full-scale value	1.25
control current at DC	
 in standby mode of operation 	13 mA
during operation	57 mA
inrush current peak	
• at DC at 24 V	300 mA
 at DC at 24 V at switching on of motor 	140 mA
duration of inrush current peak	
● at DC at 24 V	80 ms
 at DC at 24 V at switching on of motor 	80 ms
power loss [W] in auxiliary and control circuit	
in switching state OFF	
— with bypass circuit	0.35 W
 in switching state ON 	
— with bypass circuit	1.37 W
Response times	
Response times	65 76 ms
Response times ON-delay time OFF-delay time	65 76 ms 30 43 ms
ON-delay time	
ON-delay time OFF-delay time Power Electronics	
ON-delay time OFF-delay time Power Electronics operational current	30 43 ms
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value	30 43 ms 7 A
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value • at 50 °C rated value	30 43 ms 7 A 6.1 A
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value	30 43 ms 7 A
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value	30 43 ms 7 A 6.1 A 5.2 A
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions	30 43 ms 7 A 6.1 A 5.2 A 4.6 A
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position	30 43 ms 7 A 6.1 A 5.2 A 4.6 A vertical, horizontal, standing (observe derating)
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method	30 43 ms 7 A 6.1 A 5.2 A 4.6 A
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height	30 43 ms 7 A 6.1 A 5.2 A 4.6 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width	30 43 ms 7 A 6.1 A 5.2 A 4.6 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth	30 43 ms 7 A 6.1 A 5.2 A 4.6 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	30 43 ms 7 A 6.1 A 5.2 A 4.6 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth	30 43 ms 7 A 6.1 A 5.2 A 4.6 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting	30 43 ms 7 A 6.1 A 5.2 A 4.6 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards	30 43 ms 7 A 6.1 A 5.2 A 4.6 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards	30 43 ms 7 A 6.1 A 5.2 A 4.6 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 0 mm
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards	30 43 ms 7 A 6.1 A 5.2 A 4.6 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 50 mm
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side	30 43 ms 7 A 6.1 A 5.2 A 4.6 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 0 mm 50 mm 50 mm
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value • at 60 °C 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 • for grounded parts	30 43 ms 7 A 6.1 A 5.2 A 4.6 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 50 mm 50 mm 0 mm
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value • at 60 °C 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 • for grounded parts — forwards	30 43 ms 7 A 6.1 A 5.2 A 4.6 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 50 mm 50 mm 0 mm 0 mm
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — backwards — at the side	30 43 ms 7 A 6.1 A 5.2 A 4.6 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 0 mm 50 mm 0 mm 0 mm 0 mm
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C 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 • for grounded parts — forwards — backwards — upwards	30 43 ms 7 A 6.1 A 5.2 A 4.6 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 0 mm 50 mm 0 mm 0 mm 50 mm 50 mm
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C 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 • for grounded parts — forwards — at the side • dackwards — at the side	30 43 ms 7 A 6.1 A 5.2 A 4.6 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 0 mm 50 mm 0 mm 0 mm 0 mm 0 mm 4 mm
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value • at 55 °C rated value • at 55 °C rated value • at 60 °C 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 • for grounded parts — forwards — upwards — at the side — downwards	30 43 ms 7 A 6.1 A 5.2 A 4.6 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 0 mm 50 mm 0 mm 0 mm 50 mm 50 mm
ON-delay time Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 50 °C rated value • at 60 °C rated value it 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — odownwards — at the side • for grounded parts — forwards — backwards — upwards — at the side — downwards — at the side — downwards	30 43 ms 7 A 6.1 A 5.2 A 4.6 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 0 mm 50 mm 0 mm 0 mm 50 mm 0 mm 50 mm 50 mm 50 mm 50 mm 50 mm
ON-delay time OFF-delay time Power Electronics operational current • at 40 °C rated value • at 55 °C rated value • at 55 °C rated value • at 60 °C 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 • for grounded parts — forwards — upwards — at the side — downwards	30 43 ms 7 A 6.1 A 5.2 A 4.6 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 0 mm 50 mm 0 mm 0 mm 0 mm 0 mm 4 mm

 during operation during storage during transport environmental category during operation according to IEC 60721 relative humidity during operation 	-25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 %
air pressure according to SN 31205	900 1 060 hPa
Communication/ Protocol	
protocol is supported	
 PROFINET IO protocol 	No
 PROFIsafe protocol 	No
product function bus communication	No
protocol is supported AS-Interface protocol	No
Connections/ Terminals	
type of electrical connection	screw-type terminals for main circuit, screw-type terminals for control circuit
 for main current circuit 	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
wire length for motor unshielded maximum	100 m
type of connectable conductor cross-sections	
 for main contacts 	
— solid	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)
 — finely stranded with core end processing 	1x (0,5 4 mm²), 2x (0,5 1,5 mm²)
 at AWG cables for main contacts 	1x (20 12), 2x (20 14)
connectable conductor cross-section for main contacts	
solid or stranded	0.5 4 mm²
 finely stranded with core end processing 	0.5 4 mm ²
connectable conductor cross-section for auxiliary	0.0 + 11111
contacts	
 solid or stranded 	0.5 2.5 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid	1x (0,5 2,5 mm²), 2x (1,0 1,5 mm²)
 finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1 mm²)
 at AWG cables for auxiliary contacts 	1x (20 14), 2x (18 16)
AWG number as coded connectable conductor cross	
section	00 40
 for main contacts 	20 12
- for ourilliant contacts	20 11
for auxiliary contacts	20 14
UL/CSA ratings	20 14
UL/CSA ratings yielded mechanical performance [hp]	20 14
UL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor	
UL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value	0.25 hp
UL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value	
UL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor	0.25 hp 0.5 hp
UL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value	0.25 hp 0.5 hp 1 hp
UL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value	0.25 hp 0.5 hp 1 hp 1.5 hp
UL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value	0.25 hp 0.5 hp 1 hp 1.5 hp 3 hp
UL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value operating voltage at AC rated value	0.25 hp 0.5 hp 1 hp 1.5 hp
UL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value operating voltage at AC rated value Certificates/ approvals	0.25 hp 0.5 hp 1 hp 1.5 hp 3 hp 480 V
UL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value operating voltage at AC rated value	0.25 hp 0.5 hp 1 hp 1.5 hp 3 hp
UL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value operating voltage at AC rated value Certificates/ approvals General Product Approval	0.25 hp 0.5 hp 1 hp 1.5 hp 3 hp 480 V
UL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value operating voltage at AC rated value Certificates/ approvals	0.25 hp 0.5 hp 1 hp 1.5 hp 3 hp 480 V
UL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value operating voltage at AC rated value Certificates/ approvals General Product Approval	0.25 hp 0.5 hp 1 hp 1.5 hp 3 hp 480 V
UL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value operating voltage at AC rated value Certificates/ approvals General Product Approval	0.25 hp 0.5 hp 1 hp 1.5 hp 3 hp 480 V
UL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor - at 110/120 V rated value - at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value operating voltage at AC rated value Certificates/ approvals General Product Approval	0.25 hp 0.5 hp 1 hp 1.5 hp 3 hp 480 V
UL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor - at 110/120 V rated value - at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value operating voltage at AC rated value Certificates/ approvals General Product Approval	0.25 hp 0.5 hp 1 hp 1.5 hp 3 hp 480 V
UL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor - at 110/120 V rated value - at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value operating voltage at AC rated value operating voltage at AC rated value General Product Approvals Confirmation ccc	0.25 hp 0.5 hp 1 hp 1.5 hp 3 hp 480 V EMC EMC
UL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor - at 110/120 V rated value - at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 460/480 V rated value operating voltage at AC rated value Certificates/ approvals General Product Approval Confirmation ccc For use in hazard- Functional Safetty (Safety of Declaration of Safety of Declaration of Safety (Safety of Declaration of Safety)	0.25 hp 0.5 hp 1 hp 1.5 hp 3 hp 480 V EMC EMC
UL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor - at 110/120 V rated value - at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value operating voltage at AC rated value Certificates/ approvals General Product Approval Confirmation Confirmation	0.25 hp 0.5 hp 1 hp 1.5 hp 3 hp 480 V EMC EMC

Subject to change without notice © Copyright Siemens



<u>Type Examination</u> <u>Certificate</u>



Type Test Certificates/Test Report **Confirmation**

Special Test Certificate

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=3RM1307-1AA04

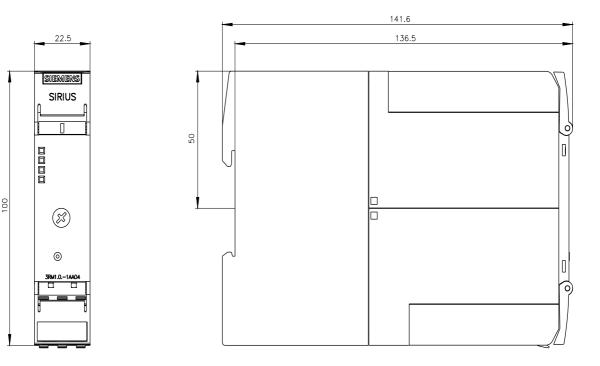
Cax online generator

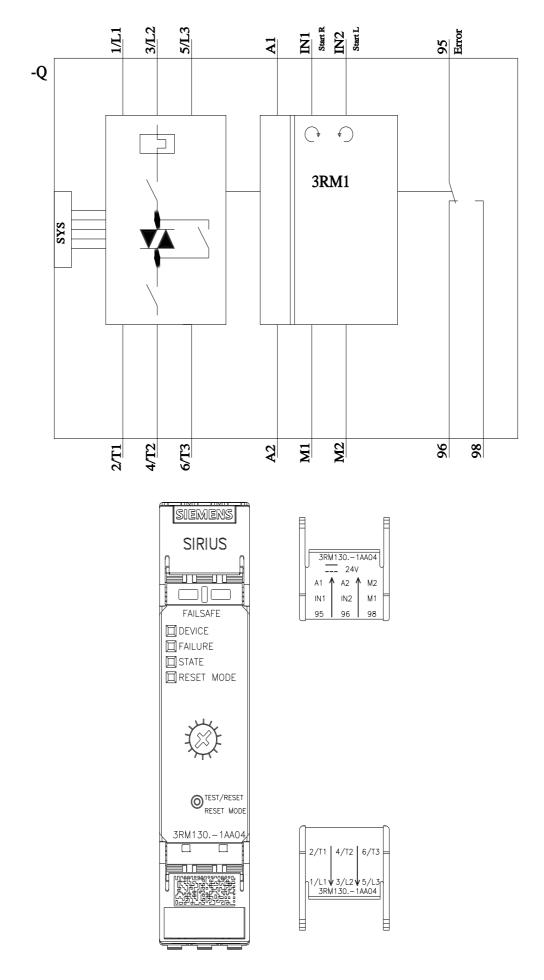
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM1307-1AA04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RM1307-1AA04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RM1307-1AA04&lang=en





last modified:

11/21/2022 🖸