SIEMENS

Data sheet 3RT2535-1AC20



Power contactor, AC-3 40 A, 18.5 kW / 400 V 2 NO + 2 NC 24 V AC, /50/60 Hz 4-pole size S2 screw terminals 1 NO+1 NC integrated

product brand name	SIRIUS
product designation	contactor
product type designation	3RT25
General technical data	
size of contactor	S2
product extension	
 function module for communication 	No
auxiliary switch	Yes
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	11.8g / 5 ms, 7.4g / 10 ms
shock resistance with sine pulse	
• at AC	18.5g / 5 ms, 11.6g / 10 ms
mechanical service life (switching cycles)	
of contactor typical	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2014
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-40 +70 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	4
number of NO contacts for main contacts	2

number of NC contacts for main contacts	
operational current	
• at AC-1 up to 690 V	
— at ambient temperature 40 °C rated value	60 A
— at ambient temperature 60 °C rated value	55 A
• at AC-2 at AC-3 at 400 V	
per NO contact rated value	35 A
per NC contact rated value	35 A
minimum cross-section in main circuit at maximum AC-1	16 mm²
rated value	
operational current	
at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
with 2 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
 at 1 current path at DC-3 at DC-5 	
 — at 24 V per NC contact rated value 	35 A
 — at 24 V per NO contact rated value 	35 A
 — at 110 V per NC contact rated value 	1.25 A
 — at 110 V per NO contact rated value 	2.5 A
 — at 220 V per NC contact rated value 	0.5 A
 at 220 V per NO contact rated value 	1 A
 — at 440 V per NC contact rated value 	0.045 A
 — at 440 V per NO contact rated value 	0.1 A
 with 2 current paths in series at DC-3 at DC-5 	
 — at 24 V per NC contact rated value 	55 A
 — at 24 V per NO contact rated value 	55 A
 — at 110 V per NC contact rated value 	12.5 A
 — at 110 V per NO contact rated value 	25 A
— at 220 V per NC contact rated value	2.5 A
— at 220 V per NO contact rated value	5 A
— at 440 V per NC contact rated value	0.135 A
— at 440 V per NO contact rated value	0.27 A
operating power at AC-2 at AC-3	
at 230 V per NC contact rated value	11 kW
at 230 V per NO contact rated value	11 kW
at 400 V per NC contact rated value	18.5 kW
at 400 V per NO contact rated value	18.5 kW
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	546 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	443 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	334 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	241 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	196 A; Use minimum cross-section acc. to AC-1 rated value
power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor	4 W
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 200 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	7.0
• at 50 Hz rated value	24 V
- at our include value	2.1

at 60 Hz rated value	24 V
operating range factor control supply voltage rated	
value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	190 VA
• at 50 Hz	210 VA
• at 60 Hz	188 VA
inductive power factor with closing power of the coil	0.72
● at 50 Hz	0.69
● at 60 Hz	0.65
apparent holding power of magnet coil at AC	17.2 VA
● at 50 Hz	17.2 VA
● at 60 Hz	16.5 VA
inductive power factor with the holding power of the	0.36
coil	
● at 50 Hz	0.36
● at 60 Hz	0.39
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	AC
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
instantaneous contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
instantaneous contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	6 A
at 400 V rated value	3 A
at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	6 A
at 60 V rated value	6 A
at 110 V rated value	3 A
at 125 V rated value	2 A
at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	0.1071
at 24 V rated value	10 A
at 24 V rated value at 48 V rated value	10 A 2 A
	2 A
at 60 V rated value at 110 V rated value	
at 110 V rated value at 125 V rated value	1 A
at 125 V rated value at 220 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
yielded mechanical performance [hp]	
• for 3-phase AC motor at 460/480 V rated value	20 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
with type of coordination 1 required	gG: 125 A (690 V, 100 kA)
with type of assignment 2 required	gG: 63A (690V, 100kA)
type of doorginnone 2 required	3 (000 , 100.0 -/

insuruting position **ideb by-side mounting **ideb side side mounting **ideb side side side side by-side mounting sides **ideb side side side side side side side side	required	fuse gG: 10 A
Asserting method side-by-side mounting side-by-side mounting side-by-side mounting side-by-side mounting yes 114 mm 15 mm required spacing with side-by-side mounting - forwards - backwards - upwards - downwards - at the side - upwards - backwards - upwards - forgrounded parts - forgrounded parts - forwards - upwards - at the side - upwards - backwards - upwards - backwards - upwards - on mm - downwards - on mm - of orgrounded parts - forwards - on mm - one-ctoops - for live parts - forwards - on mm - one-ctoops of mm - backwards - on mm - one-ctoops of mm - backwards - on mm - one-ctoops of mm - backwards - on mm - one-ctoops of mm - one-ctoops of mm - backwards - on mm - one-ctoops of mm - one-ctoops of mm - upwards - backwards - on mm - one-ctoops of mm - one-ctoop	stallation/ mounting/ dimensions	
• side-by-side mounting	mounting position	
Meight	fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
### A	side-by-side mounting	Yes
required spacing - with side-by-side mounting - horwards - backwards - of mm - upwards - of mm - of grounded parts - for mards - backwards - of mm - backwards - of mm - backwards - of mm - upwards - of mm - backwards - of mm - odwnwards - of mm - of mm - odwnwards - odwnwards - odwnwards - of mm - odwnwards - o	height	114 mm
evith side-by-side mounting - forwards - backwards - upwards - downwards - at the side - for grounded parts - forwards - backwards - upwards - forwards - upwards - upwards - upwards - downwards - upwards - for live parts - forwards - downwards - for live parts - forwards - downwards - upwards - backwards - upwards - for live parts - forwards - upwards - backwards - upwards - for main current - backwards - upwards - upwards - backwards - upwards - upward	width	75 mm
with side-by-side mounting — forwards — backwards — upwards — downwards — at the side of or grounded parts — forwards — backwards — ownwards — backwards — ownwards — backwards — upwards — at the side — ownwards — at the side — ownwards — ownwards — ownwards — of orwards — ownwards — backwards — ownwards — own	depth	130 mm
forwards backwards upwards dommards at the side of grounded parts forwards backwards of grounded parts forwards backwards backwards backwards backwards backwards backwards backwards backwards backwards of mm backwards of mm backwards of mm backwards of mm of mm backwards of mm of mm backwards of mm of mm backwards of mm of mm backwards of mm of mm of mm of mards of mm	required spacing	
backwards	with side-by-side mounting	
- upwards - downwards - at the side • for grounded parts - forwards - backwards - upwards - at the side - upwards - at the side - upwards - at the side - downwards - downwards - downwards - for live parts - forwards - backwards - backwards - backwards - backwards - backwards - upwards - backwards - upwards - backwards - upwards - backwards - upwards - downwards - downwards - at the side - upwards - downwards - at the side - upwards - downwards - at the side - upwards - so mm - upwards - downwards - at the side - upwards - so mm - upwards - so mm - upwards - downwards - at the side - upwards - so mm	— forwards	0 mm
- downwards - at the side	— backwards	0 mm
- at the side • for grounded parts - forwards - backwards - upwards - at the side 10 mm - downwards • for live parts - forwards - upwards - backwards 0 mm • for live parts - forwards - backwards 0 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - downwards 50 mm - downwards 50 mm - downwards 50 mm - downwards - upwards - downwards - downwards 50 mm - at the side 10 mm - at the side 10 mm - at the side - at me side - at me side - at me side - at me side 10 mm - at the side 10 mm - at the side - at me side - for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit - solid - solid - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts - solid - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded - solid or str	— upwards	0 mm
• for grounded parts — forwards — backwards — upwards — at the side — downwards 50 mm • for live parts — forwards — backwards — upwards — 50 mm — downwards — 50 mm — downwards — at the side — 10 mm — onnections/ Terminals type of electrical connection • for main current circuit • of magnet coll • at contactor for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for auxillary contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for auxillary contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for auxillary contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for positively driven operation according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • protection class IP on the front according to IEC 60529 flouch protection on the front according to IEC 60529	— downwards	0 mm
- forwards - backwards - upwards - at the side - downwards - for live parts - forwards - backwards - forwards - backwards - upwards - downwards - for awailiary and control circuit - solid or main cortaction - solid or main cortacts - solid - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - solid - solid or stranded - finely stranded with core end processing - solid or stranded - solid or stranded - finely stranded with core end processing - solid or stranded - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - solid or stranded - solid or str	— at the side	0 mm
backwards upwards upwards at the side downwards for live parts forwards backwards backwards backwards upwards backwards upwards backwards upwards downwards downwards at the side solid acontaction for main current circuit for auxiliary and control circuit for auxiliary contacts of magnet coil solid or stranded solid or stranded finely stranded with core end processing at AWG cables for main contacts solid solid or stranded solid or stranded finely stranded with core end processing solid or stranded solid or	 for grounded parts 	
- upwards - at the side - downwards 50 mm for live parts - forwards - backwards - upwards - downwards - downwards - downwards - downwards - at the side - at contact for auxiliary and control circuit - for auxiliary and control circuit - at contact for auxiliary contacts - of magnet coil - solid - solid a stranded - finely stranded with core end processing - at AWG cables for main contacts - solid - solid or stranded - solid or stranded - finely stranded with core end processing - solid or stranded - solid or strande - solid or stranded - solid or strande - solid or strande - sol	— forwards	0 mm
- at the side	— backwards	0 mm
• for live parts • for live parts — forwards — backwards — upwards — downwards — at the side — of main current circuit • at contactor for auxiliary contacts • of magnet coil — solid — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts — solid — solid or stranded — finely stranded with core end processing — solid or stranded — finely stranded with core end processing — solid or stranded — finely stranded with core end processing — solid or stranded — finely stranded with core end processing — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxili	— upwards	50 mm
• for live parts — forwards — backwards — upwards — downwards — at the side — at the side — at the side — to main current circuit — for auxiliary and control circuit — at contactor for auxiliary contacts — of magnet coil **Screw-type terminals **Screw-type terminals **Screw-type terminals **Screw-type terminals **To magnet coil **Screw-type terminals **Screw-type terminals **Screw-type terminals **Screw-typ	— at the side	10 mm
fonwards backwards backwards downwards downwards at the side downwards at the side at the side dometions/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit for auxiliary and control circuit for auxiliary and control circuit for auxiliary contacts for magnet coil solid solid or stranded finely stranded with core end processing at AWG cables for main contacts solid solid or stranded finely stranded with core end processing at AWG cables for main contacts solid solid or stranded finely stranded with core end processing at AWG cables for main contacts solid solid or stranded finely stranded with core end processing finely stranded with core end processing at AWG cables for main contacts solid solid or stranded finely stranded with core end processing at AWG cables for auxiliary contacts solid solid or stranded finely stranded with core end processing at AWG cables for auxiliary contacts solid solid or stranded finely stranded with core end processing at AWG cables for auxiliary contacts solid solid or stranded finely stranded with core end processing at AWG cables for auxiliary contacts solid solid or stranded finely stranded with core end processing at AWG cables for auxiliary contacts solid solid or stranded finely stranded with core end processing at AWG cables for auxiliary contacts solid solid or stranded finely stranded with core end processing at AWG cables for auxiliary contacts solid solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing solid or stranded solid or stra	— downwards	50 mm
- backwards - upwards - downwards - downwards - at the side connections/ Terminals type of electrical connection • for main current circuit • at contactor for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts - solid - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts - solid - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing - solid - solid or stranded - solid or strander - solid - solid or strander - solid - solid or str	for live parts	
- upwards	— forwards	0 mm
- downwards 50 mm - at the side 10 mm connections/ Terminals type of electrical connection	— backwards	0 mm
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of main contacts • of main contacts — solid — solid or stranded — finely stranded with core end processing • of connectable conductor cross-sections • for on contacts • solid 2x (1 35 mm²), 1x (1 50 mm²) — x (1 35 mm²), 1x (1 50 mm²) — 2x (1 35 mm²), 1x (1 50 mm²) — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts — solid — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts AWG number as coded connectable conductor cross section for main contacts afety related data product function • mirror contact according to IEC 60947-5-1 protection class IP on the front according to IEC 60529 finger-safe, for vertical contact from the front	— upwards	50 mm
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid — solid or stranded (2x (1 35 mm²), 1x (1 50 mm²) — 2x (1 35 mm²), 1x (1 50 mm²) — 2x (1 25 mm²), 1x (1 50 mm²) — 2x (1 25 mm²), 1x (1 50 mm²) — 2x (1 25 mm²), 1x (1 50 mm²) — 2x (1 25 mm²), 1x (1 50 mm²) — finely stranded with core end processing • for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts afety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	— downwards	50 mm
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid — solid or stranded conductor cross-sections • for auxiliary contacts — solid — solid or stranded with core end processing • at AWG cables for main contacts — solid — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts atety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 protection class IP 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	— at the side	10 mm
• for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts — solid — solid or auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for main contacts — solid — finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts •	onnections/ Terminals	
• for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • for auxiliary contacts — solid — solid or stranded — solid or stranded (2x (1 35 mm²), 1x (1 50 mm²) 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 50 mm²) 2x (2	type of electrical connection	
• at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts — solid — solid — solid or stranded (2x (1 35 mm²), 1x (1 50 mm²) — at AWG cables for main contacts • for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts afety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	for main current circuit	screw-type terminals
• of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts — solid — solid or stranded • type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for maxiliary contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts afety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	 for auxiliary and control circuit 	screw-type terminals
type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts — solid — solid or stranded (2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1	at contactor for auxiliary contacts	Screw-type terminals
• for main contacts	of magnet coil	Screw-type terminals
- solid - solid or stranded - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - solid - solid or stranded - solid or stranded - solid -	type of connectable conductor cross-sections	
- solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • for auxiliary contacts - solid - solid or stranded with core end processing - solid or stranded with core end processing - at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts afety related data product function - mirror contact according to IEC 60947-4-1 - positively driven operation according to IEC 60947-5-1 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	• for main contacts	
- finely stranded with core end processing • at AWG cables for main contacts type of connectable conductor cross-sections • for auxiliary contacts - solid - solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - at AWG cables for auxiliary contacts 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section for main contacts afety related data product function - mirror contact according to IEC 60947-4-1 - positively driven operation according to IEC 60947-5-1 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	— solid	2x (1 35 mm²), 1x (1 50 mm²)
at AWG cables for main contacts type of connectable conductor cross-sections • for auxiliary contacts	— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts afety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)
type of connectable conductor cross-sections		
 for auxiliary contacts — solid — solid or stranded — solid or stranded — finely stranded with core end processing — finely stranded with core end processing — at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts afety related data product function — mirror contact according to IEC 60947-4-1 — positively driven operation according to IEC 60947-5-1 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front 	type of connectable conductor cross-sections	
- solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • at AWG cables for auxiliary contacts 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section for main contacts afety related data product function • mirror contact according to IEC 60947-4-1 Yes - positively driven operation according to IEC 60947-5-1 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front		
 — finely stranded with core end processing at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts afety related data product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 protection class IP on the front according to IEC 60529 finger-safe, for vertical contact from the front 	— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts afety related data product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts afety related data product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	— finely stranded with core end processing	
AWG number as coded connectable conductor cross section for main contacts afety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front		
product function	-	
Product function	AWG number as coded connectable conductor cross	
mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 Protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front		
positively driven operation according to IEC 60947- 5-1 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	section for main contacts	
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	section for main contacts afety related data	
60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	section for main contacts afety related data product function	Yes
	section for main contacts afety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-	
ertificates/ approvals	section for main contacts afety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 protection class IP on the front according to IEC	No
	section for main contacts afety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 protection class IP on the front according to IEC 60529	No IP20





Confirmation



<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping

other

Railway

Dangerous Good



Confirmation

Vibration and Shock

Transport Information

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=3RT2535-1AC20

Cax online generator

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2535-1AC20

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2535-1AC20&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2535-1AC20/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2535-1AC20&objecttype=14&gridview=view1

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