3RT2035-1KB40-1AA0

Data sheet



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 24 V DC, 0.8-1.2* Us, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2, suitable for PLC outputs, upright mounting position

product brand name	SIRIUS
product designation	Coupling contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
at AC in hot operating state	6.6 W
 at AC in hot operating state per pole 	2.2 W
 without load current share typical 	1 W
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 protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	7.7g / 5 ms, 4.5g / 10 ms
shock resistance with sine pulse	
• at DC	12g / 5 ms, 7g / 10 ms
mechanical service life (operating 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	-25 +60 °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	3

number of NO contacts for main contacts	3
operating voltage	
 at AC-3 rated value maximum 	690 V
at AC-3e rated value maximum	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated 	60 A
value	
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	60 A
— up to 690 V at ambient temperature 60 °C rated	55 A
value	
• at AC-3	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
• at AC-4 at 400 V rated value	35 A
• at AC-5a up to 690 V rated value	52.8 A
• at AC-5b up to 400 V rated value	33.2 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	36.5 A
— up to 400 V for current peak value n=20 rated value	36.5 A
— up to 500 V for current peak value n=20 rated value	36.5 A
— up to 690 V for current peak value n=20 rated value	24 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	24.2 A
— up to 400 V for current peak value n=30 rated value	24.2 A
— up to 500 V for current peak value n=30 rated value	24.2 A
— up to 690 V for current peak value n=30 rated value	24 A
minimum cross-section in main circuit at maximum AC-1 rated value	16 mm²
operational current for approx. 200000 operating cycles at	
AC-4	00.4
• at 400 V rated value	22 A
at 690 V rated value	18.5 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	23 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
with 2 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
 at 1 current path at DC-3 at DC-5 	

— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
at AC-2 at 400 V rated value	18.5 kW
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
	22 kW
— at 690 V rated value	ZZ KVV
• at AC-3e	44 1/1/4
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-	
at 400 V rated value at 400 V rated value	11.6 kW
at 690 V rated value	16.8 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	14.5 kVA
• up to 400 V for current peak value n=20 rated value	25.2 kVA
• up to 500 V for current peak value n=20 rated value	31.6 kVA
• up to 690 V for current peak value n=20 rated value	28.6 kVA
	20.0 KVA
operating apparent power at AC-6a	9.6 kVA
up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value	
up to 400 V for current peak value n=30 rated value	16.8 kVA
up to 500 V for current peak value n=30 rated value	21 kVA
up to 690 V for current peak value n=30 rated value chart time withstand current in cold energing state up to	28.6 kVA
short-time withstand current in cold operating state up to 40 °C	
limited to 1 s switching at zero current maximum	843 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 5 s switching at zero current maximum	596 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching at zero current maximum	400 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
no-load switching frequency	
• at DC	1 500 1/h
operating frequency	1 000 1111
at AC-1 maximum	1 200 1/h
	750 1/h
• at AC-2 maximum	
• at AC 3a maximum	1 000 1/h
• at AC-3e maximum	1 000 1/h
 at AC-4 maximum 	200.1/b
Control circuit/ Control	300 1/h

type of voltage of the control cumply voltage	DC
type of voltage of the control supply voltage	DC .
control supply voltage at DC • rated value	24 V
operating range factor control supply voltage rated value of magnet coil at DC	Z4 V
• initial value	0.8
• full-scale value	1.2
design of the surge suppressor	with varistor
inrush current peak	2.6 A
duration of inrush current peak	50 µs
locked-rotor current mean value	0.9 A
locked-rotor current peak	2.1 A
duration of locked-rotor current	230 ms
holding current mean value	40 mA
closing power of magnet coil at DC	21.5 W
holding power of magnet coil at DC	1 W
closing delay	
• at DC	35 80 ms
opening delay	
• at DC	30 55 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 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	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 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	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	40 A
at 600 V rated value	41 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp
• for 3-phase AC motor	
— at 200/208 V rated value	10 hp
— at 220/230 V rated value	15 hp

at 490/480 V rated value at 575-800 V rated value at 575-800 V rated value at 575-800 V rated value 400 / P000 Stand-circuit profession of the rash circuit 400 / P000		
contact rating of auxillary contacts according to U.S. Associ Activation protection design of the fuse link - with type of coordination 1 required - with type of assignment 2 required - with type of sasignment 2 required - with sale of the same of the	— at 460/480 V rated value	30 hp
Send-recircul protection of the main chault	— at 575/600 V rated value	40 hp
design of the fuse link for short-circuit protection of the main circuit — with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required so in short-circuit protection of the auxiliary switch required so in short-circuit protection of the auxiliary switch required so in short-circuit protection of the auxiliary switch required so in short-circuit protection of the auxiliary switch required standing, on horizontal mounting surface. standing, on horizontal mounting onto 35 mm DIN rail according to DIN EN 66715 yes height 114 mm width 55 mm fequired spacing • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • forwards — upwards — ownwards — ownwar	contact rating of auxiliary contacts according to UL	A600 / P600
• for short-circul protection of the main circuit — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required fastellation in mountainy dimensions mounting position fastening method • for short-circuit protection of the auxiliary switch required fastellation in mountainy dimensions mounting position fastening method • for short-circuit protection of the auxiliary switch required fastellation in mountainy dimensions mounting position fastening method • for short-circuit protection of the auxiliary switch required specify yes width feight 114-mm 114-mm 119-mm 110-mm 110-mm - downwards - upwards - upwards - of the side - of ownwards - ownwards	Short-circuit protection	
	design of the fuse link	
- with type of assignment 2 required 90: 80A (660V.100A), alic. 50A (690V.100AA), 888: 63A (415V.80NA) 96: 10A (600V.1 NA) mounting position fastering method 90: 80A (600V.1 NA) 134 mm 90: 114 mm 90: 115 mm 9	• for short-circuit protection of the main circuit	
# of short-circuit protection of the auxiliary switch required installation/ mounting dictionarians mounting position fastenting method ### auxiliary switch ### auxiliary s	— with type of coordination 1 required	
mounting position standing position statening method side-by-side mounting Position state-by-side mounting solid-by-side mounting width depth 130 mm required spacing - with side-by-side mounting - upwards - upwards - upwards - o-downwards - of rorwards - if rorwards - of rorwards -	 — with type of assignment 2 required 	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
mounting position fastening method side-by-side mounting yes leight side-by-side mounting yes width 55 mm depth 130 mm required spacing - with side-by-side mounting - forwards - downwards - downwards - at the side - forwards - forwards - forwards - forwards - mounting - forwards - forw	 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
Astendard Screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	Installation/ mounting/ dimensions	
• side-by-side mounting height with depth 130 mm required spacing • with side-by-side mounting - forwards — upwards — downwards — of main aurent circuit — of auxillary contacts • of magnet coal type of connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-sections • for auxillary contacts — sold or stranded • for auxillary contacts • for auxillary contacts • for faming stranded with core end processing • for auxillary contacts • for auxillary contacts • for auxillary contacts • finely stranded with core end processing • for auxillary contacts • for auxillary contacts • finely stranded with core end processing • for auxillary contacts • finely stranded with core end processing • for auxillary contacts • finely stranded with core end processing • for auxillary contacts • finely stranded with core end processing • for auxillary contacts • finely stranded with core end processing • for auxillary contacts • finely stranded with core end processing • for auxillary contacts • finely stranded with core end processing • for auxillary contacts • finely stranded with core end processing • for auxillary contacts • finely stranded with core end processing • for auxillary contacts • finely stranded with core end processing • for auxillary contacts • finely stranded with core end processing • for auxillary contacts • for auxillary contacts • finely stranded with core end processing • for auxillary contacts	mounting position	standing, on horizontal mounting surface
Neight 114 mm 144 mm 145 mm 1	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
width depth 130 mm required spacing	• side-by-side mounting	Yes
depth 130 mm required spacing • with side-ty-side mounting - forwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 0 mm - downwards 10 mm downwards 10 mm - downwards 10 mm - downwards 10 mm downwards 10 mm - downwards 10 mm - downwards 10 mm d	height	114 mm
required spacing with side-by-side mounting — forwards — upwards — 10 mm — downwards — 10 mm — at the side — 0 mm — for grounded parts — forwards — upwards — 10 mm — upwards — 10 mm — the side — downwards — 10 mm — of the side — downwards — 10 mm — of live parts — forwards — 10 mm — of live parts — forwards — 10 mm — odwnwards — upwards — 10 mm — odwnwards — 10 mm — odwnwards — 10 mm — odwnwards — of live parts — for live parts — forwards — odwnwards — odwnwards — odwnwards — of mmin current circuit — of ro auxillary and control circuit — of ro auxillary and control circuit — of a downdard or for auxillary contacts — sold or stranded — finely stranded with core end processing connectable conductor cross-section for main contacts — finely stranded with core end processing connectable conductor cross-section for main contacts — finely stranded with core end processing connectable conductor cross-section for main contacts — finely stranded with core end processing connectable conductor cross-section for main contacts — finely stranded with core end processing connectable conductor cross-section for main contacts — sold or stranded — finely stranded with core end processing connectable conductor cross-sections — for auxillary contacts — sold or stranded — incelly stranded with core end processing — sold or stranded — finely stranded with core end processing — for MVC acables for auxillary contacts — sold or stranded — finely stranded with core end processing — for MVC acables for auxillary contacts — sold or stranded — finely stranded with core end processing — for MVC acables for auxillary contacts — sold or stranded — finely stranded with core end processing — for MVC acables for auxillary contacts — sold or stranded — finely stranded with core end processing — for MVC acables for auxillary contacts — sold or stranded — finely stranded with core end processing — for MVC acables for auxillary contacts — sold or stranded — finely stranded with core end processing — for MVC acables for auxillary contacts — so	width	55 mm
	depth	130 mm
forwards upwards upwards 10 mm 1	required spacing	
- upwards	with side-by-side mounting	
- downwards - at the side	— forwards	10 mm
- at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards • for live parts - forwards - downwards - downwards - downwards - downwards - downwards - at the side - downwards - downwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at conlactor for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • for auxiliary contacts • for auxiliary contacts AWG number as coded connectable conductor cross-sections • for far AWG cables for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts • for ma	— upwards	10 mm
• for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — upwards — upwards — downwards — upwards — downwards — at the side — downwards — at the side — for main current circuit — for auxiliary contact oconductor — for main current circuit — at contactor for auxiliary contacts — of magnet coil type of connectable conductor cross-sections for main contacts — solid or stranded — finely stranded with core end processing connectable conductor cross-section for main contacts — finely stranded with core end processing connectable conductor cross-section for main contacts — finely stranded with core end processing connectable conductor cross-section for main contacts — finely stranded with core end processing connectable conductor cross-section for main contacts — finely stranded with core end processing connectable conductor cross-section for auxiliary contacts — solid or stranded — finely stranded with core end processing connectable conductor cross-sections — for auxiliary contacts — solid or stranded — finely stranded with core end processing connectable conductor cross-sections — for auxiliary contacts — solid or stranded — finely stranded with core end processing a for AWG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing a for auxiliary contacts — solid or stranded — finely stranded with core end processing a for auxiliary contacts — solid or stranded — finely stranded with core end processing a for auxiliary contacts — solid or stranded — finely stranded with core end processing a for auxiliary contacts — solid or stranded — finely stranded with core end processing a for auxiliary contacts — solid or stranded — finely stranded with core end processing a for auxiliary contacts — solid or stranded — finely stranded with core end processing a for auxiliary contacts — solid or stranded — finely stranded with core end processing a for auxilia	— downwards	10 mm
- forwards 10 mm 1	— at the side	0 mm
- upwards - at the side - downwards • for live parts - forwards - qwards - downwards - qwards - downwards - downwards - downwards - downwards - downwards - at the side - downwards - at the side - downwards - at the side Connections/ Terminals Type of electrical connection • 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 or stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing tor auxiliary contacts - solid or stranded - finely stranded with core end processing vipe of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing vipe of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing vipe of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing vipe of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing vipe of connectable conductor constants - solid or stranded - finely stranded with core end processing vipe of connectable conductor constants - solid or	 for grounded parts 	
- at the side - downwards - for live parts - forwards - upwards - upwards - upwards - downwards - downwards - at the side - downwards - at the side - domnoctions/ Terminals 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 or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded	— forwards	10 mm
- downwards - for live parts - forwards - upwards - upwards - downwards - downwards - at the side - at the side - at the side - at the side - for awdilary and control circuit - at contactor for awdilary contacts - of magnet coil type of connectable conductor cross-sections for main contacts - solid or stranded - finely stranded with core end processing - connectable conductor cross-section for awdilary contacts - solid or stranded - finely stranded with core end processing - solid or stranded - solid or stranded - solid or stranded - solid or stran	— upwards	10 mm
• for live parts — forwards — upwards — downwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • at contactor for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coll type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts • for of connectable conductor cross-sections • for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for main contacts • for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts • for auxiliary contacts • for auxiliary contacts 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 14 Safety related data product function • mirror contact according to IEC 60947-8-1 • positively driven operation according to IEC 60947-8-1	— at the side	6 mm
- forwards	— downwards	10 mm
- upwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-sections • finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts - for auxiliary contacts - fo	 for live parts 	
- downwards — at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • at contactor for auxiliary contacts • at contactor for auxiliary contacts • of magnet coil screw-type terminals • of onnectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • solid or stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWC cables for auxiliary contacts • for auxiliary contacts - solid or stranded with core end processing • for auxiliary contacts - for auxiliary contacts - for auxiliary contacts - for auxiliary contacts - for auxiliary contacts - for auxiliary contacts - solid or stranded with core end processing - for auxiliary contacts - for auxiliary c	— forwards	10 mm
- at the side 6 mm Connections/ Terminals 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 or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • sincly stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing 2x (0.5 2.5 mm² type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 18 1 • for auxiliary contacts 2x (20 14 Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1	— upwards	10 mm
type of electrical connection • for main current circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 18 1 • for auxiliary contacts 2x (20 14 Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1	— downwards	10 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 or stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts • for auxiliary contacts — for auxiliary contacts • for main contacts • for main contacts • for main contacts • for main contacts • for auxiliary	— at the side	6 mm
• 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 or stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing vipe of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts • for main contacts • for auxiliary contacts • for auxiliar	Connections/ Terminals	
for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil Screw-type terminals volume of connectable conductor cross-sections for main contacts	type of electrical connection	
 at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts finely stranded with core end processing connectable conductor cross-section for auxiliary contacts finely stranded with core end processing solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded for auxiliary contacts for auxiliary contacts for aliance of auxiliary contacts for auxiliary contacts for AVVG cables for auxiliary contacts for main contacts for main contacts for main contacts for main contacts for auxiliary contacts for auxiliary contacts for main contacts for auxiliary contacts for auxiliary contacts for auxiliary contacts for main contacts for main contacts for auxiliary contacts <l< td=""><td>for main current circuit</td><td>screw-type terminals</td></l<>	for main current circuit	screw-type terminals
of magnet coil type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • for auxiliary contacts — solid or stranded — s	 for auxiliary and control circuit 	screw-type terminals
type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts - for main contacts - for auxiliary contacts - for a	 at contactor for auxiliary contacts 	Screw-type terminals
solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded solid or stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded solid or stranded solid or stranded	of magnet coil	Screw-type terminals
• finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing very of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing very of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing very of cables for auxiliary contacts very of connectable solid or stranded very of connectab	type of connectable conductor cross-sections for main contacts	
connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 18 1 • for auxiliary contacts 18 1 • for auxiliary contacts • for ouxiliary contacts • for	solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
• finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 18 1 • for auxiliary contacts Product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 No	finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)
connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing — solid or stranded — finely stranded with core end processing — for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 18 1 • for auxiliary contacts 20 14 Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 No	connectable conductor cross-section for main contacts	
 solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded with core end processing for AWG cables for auxiliary contacts for AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 No 	finely stranded with core end processing	1 35 mm²
• finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded with core end processing — for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts — for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 — positively driven operation according to IEC 60947-5-1 No	•	
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 for auxiliary contacts — solid or stranded — finely stranded with core end processing — for AWG cables for auxiliary contacts — for main contacts — for auxiliary contacts — solid or stranded — 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) — 2x (20 16), 2x (18 14) — for main contacts — for auxiliary contacts — for auxili		0.5 2.5 mm²
- solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 18 1 • for auxiliary contacts 20 14 Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 No		
— finely stranded with core end processing • for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 14 Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 No	•	
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AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 14 Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 No	· · · · · · · · · · · · · · · · · · ·	
section • for main contacts • for auxiliary contacts 20 14 Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 No	<u> </u>	2x (20 16), 2x (18 14)
● for auxiliary contacts 20 14 Safety related data product function ● mirror contact according to IEC 60947-4-1 ● positively driven operation according to IEC 60947-5-1 No	section	
Product function ■ mirror contact according to IEC 60947-4-1 ■ positively driven operation according to IEC 60947-5-1 No		
product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 No		20 14
 mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 No	Safety related data	
• positively driven operation according to IEC 60947-5-1	product function	
	 mirror contact according to IEC 60947-4-1 	Yes
B10 value with high demand rate according to SN 31920 1 000 000	 positively driven operation according to IEC 60947-5-1 	No
	B10 value with high demand rate according to SN 31920	1 000 000

proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
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
suitability for use	
 safety-related switching OFF 	Yes

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



	EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conformity	Test Certificates
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Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping other Railway Environment



Confirmation

Vibration and Shock

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RT2035-1KB40-1AA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-1KB40-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1KB40-1AA0

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

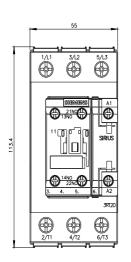
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2035-1KB40-1AA0\&lang=ender.pdf} \\ \underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2035-1KB40-1AA0\&lang=ender.pdf} \\ \underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx} \\ \underline{\text{http://www.automation.siemens.com$

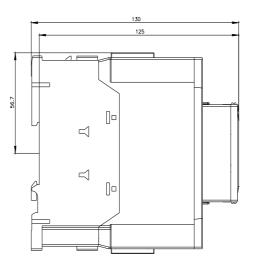
Characteristic: Tripping characteristics, I²t, Let-through current

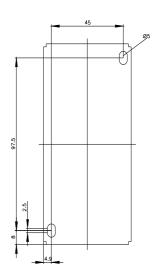
https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1KB40-1AA0/char

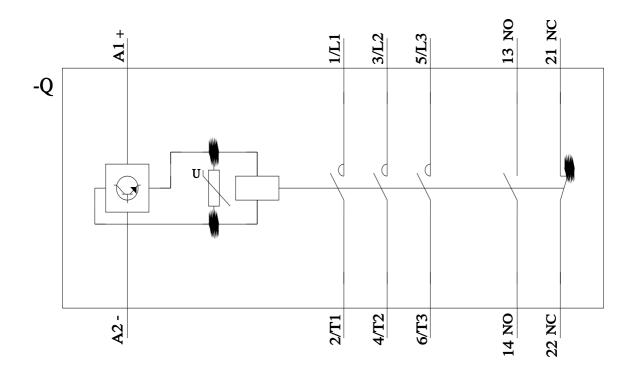
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-1KB40-1AA0&objecttype=14&gridview=view1









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2/10/2023

