SIEMENS

Data sheet 3RT2545-1NP30



power contactor, AC-3, 80 A, 37 kW / 400 V, 4-pole, 175-280 V AC/DC, 50/60 Hz, with integrated varistor, main contacts: 2 NO + 2 NC, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3

product brand name	SIRIUS
product designation	contactor
product type designation	3RT25
General technical data	
size of contactor	S3
product extension	
 function module for communication 	No
auxiliary switch	Yes
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
of main circuit rated value	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	6.7 g / 5 ms, 4.0 g / 10 ms
• at DC	6.7 g / 5 ms, 4g / 10 ms
shock resistance with sine pulse	
• at AC	10.6 g / 5 ms, 6.3 g / 10 ms
• at DC	10.6 g / 5 ms, 6.3 g / 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)	09/01/2017
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	4
number of NO contacts for main contacts	2
number of NC contacts for main contacts	2

operational current • at AC-1 up to 690 V	
•	105 A
— at ambient temperature 40 °C rated value	125 A
— at ambient temperature 60 °C rated value	105 A
• at AC-2 at AC-3 at 400 V	00.4
— per NO contact rated value	80 A
— per NC contact rated value	80 A
minimum cross-section in main circuit at maximum AC-1 rated value	50 mm ²
operational current	
at 1 current path at DC-1	
— at 24 V rated value	100 A
— at 110 V rated value	9 A
— at 220 V rated value	2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.4 A
with 2 current paths in series at DC-1	
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	10 A
— at 440 V rated value	1.8 A
• at 1 current path at DC-3 at DC-5	
— at 24 V per NC contact rated value	40 A
— at 24 V per NO contact rated value	40 A
 at 110 V per NC contact rated value 	2.5 A
 at 110 V per NO contact rated value 	2.5 A
— at 220 V per NC contact rated value	1 A
— at 220 V per NO contact rated value	1 A
— at 440 V per NC contact rated value	0.15 A
— at 440 V per NO contact rated value	0.15 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V per NC contact rated value	100 A
— at 24 V per NO contact rated value	100 A
— at 110 V per NC contact rated value	100 A
— at 110 V per NO contact rated value	100 A
— at 220 V per NC contact rated value	7 A
— at 220 V per NO contact rated value	7 A
— at 440 V per NC contact rated value	0.42 A
— at 440 V per NO contact rated value	0.42 A
operating power at AC-2 at AC-3	
at 230 V per NC contact rated value	22 kW
at 230 V per NO contact rated value	22 kW
at 400 V per NC contact rated value	37 kW
at 400 V per NO contact rated value	37 kW
short-time withstand current in cold operating state up to	
40 °C • limited to 1 s switching at zero current maximum	1 080 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 1's switching at zero current maximum Iimited to 5 s switching at zero current maximum	1 080 A; Use minimum cross-section acc. to AC-1 rated value
-	851 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum 	538 A; Use minimum cross-section acc. to AC-1 rated value
<u> </u>	423 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum power loss [W] at AC-3 at 400 V for rated value of the	5.3 W
operational current per conductor	0.0 11
no-load switching frequency	
• at AC	1 000 1/h
• at DC	1 000 1/h
operating frequency	
• at AC-1 maximum	900 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	

at 60 Hz rated value	175 280 V
control supply voltage at DC	200 V
• rated value	175 280 V
	110 200 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
inrush current peak	65 A
duration of inrush current peak	5 μs
locked-rotor current mean value	0.44 A
locked-rotor current peak	1.2 A
duration of locked-rotor current	150 ms
holding current mean value	10 mA
apparent pick-up power of magnet coil at AC	163 VA
• at 50 Hz	163 VA
• at 60 Hz	163 VA
inductive power factor with closing power of the coil	0.95
• at 50 Hz	0.95
• at 60 Hz	0.95
apparent holding power of magnet coil at AC	3.1 VA
• at 50 Hz	3.1 VA
• at 60 Hz	3.1 VA
inductive power factor with the holding power of the coil	0.95
• at 50 Hz	0.95
• at 60 Hz	0.95
closing power of magnet coil at DC	76 W
holding power of magnet coil at DC	1.8 W
closing delay	
• at AC	50 70 ms
• at DC	50 70 ms
opening delay	
• at AC	38 57 ms
• at DC	38 57 ms
arcing time	10 20 ms
control version of the switch operating mechanism	UC
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	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	
• at 24 V rated value	10 A
at 48 V rated value	2 A

a 11 10 V rated value 1 A 0.3 A		
** at 128 V rated value ** at 229 V rated value	at 60 V rated value	2 A
e. at 220 V rated value	at 110 V rated value	1 A
e. 80.00 V releaf value contact reliability of auxiliary contacts	at 125 V rated value	0.9 A
Contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V.1 mA) 10 CSA ratings yielded mechanical performance (tip) • for 3 phase AC motor at 4804480 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection • 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 • for short-circuit protection of the auxiliary switch required * for short-circuit protection of the auxiliary switch required * for short-circuit protection of the auxiliary switch required * fastering method • sude-by-side mounting * fastering method • sude-by-side mounting • vith side by side mounting • required spacing • vith side by side mounting • lowwards • programd parts • forwards • backwards • upwards • In mm • at the side • on mm • for live parts • for wards • for live parts • for mean current circuit. • for main current circuit. • for main current circuit. • for main current circuit. • of mayers contacts • of mayers contacts • of mayers contacts • for maxiliary and control circuit. • at the side • of mayers contacts • of mayers contacts • for maxiliary and control circuit. • of maxiliary contacts • for maxiliary and control circuit. • action for stranded • action for stranded • action for stranded • for open contacts and contacts • for maxiliary contacts • for maxiliary contacts • for maxiliary and contr	at 220 V rated value	0.3 A
yelded mechanical performance (hg) • for 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to UL A600 / P600 Stond-first protection of the main circuit • with type of controllation in required — with type of assignment 2 required — socked by with required — socked by with required — socked by with required socked by with required socked by with required socked by with required specing — with sick-by-side mounting — forwards — forwards — on mm — forwards — on mm — downwards — on mm — downwards — on mm — odownwards — odownwards — odownwards — odownw	at 600 V rated value	0.1 A
yielded mechanical performance (hg) • for 3-phese AC motor at 460489 V reled value contact rating of auxiliary contacts according to UL Short-circuit protection • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of condination 1 required — side by-side mounting • with side-by-side mounting • formands — althe side — downwards — on mn • forwards — on mn • for leve parts — forwards — on mn • for main current circuit •	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
** for 3-phase AC monor at 460480 Y rated value **contact rating of auxiliary contacts according to U. Short-circum protection design of the fuse link **of whort-circuit protection of the main circuit **-with type of coordination 1 required **protection of the substance o	UL/CSA ratings	
AB00 / P000	yielded mechanical performance [hp]	
Short-circuit protection design of the fuse link of short-circuit protection of the main circuit with type of coordination 1 required -with type of coordination 2 required of to short-circuit protection of the auxiliary switch required fuse first post of stort-circuit protection of the auxiliary switch required fuse first short-circuit protection of the auxiliary switch required fuse first short-circuit protection of the auxiliary switch required fuse first short-circuit protection of the auxiliary switch required sole-by-side mounting dimensions witch 140 mm width 170 mm 152 mm 15	·	
design of the fuse link of ration-circuit protection of the main circuit —with type of coordination 1 required —with type of consistentiation 1 required —with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required first circuit protection of the auxiliary switch required first circuit protection of the auxiliary switch required first circuit possible on vertical mounting surface, can be titled forward and backward by +f-22.5" on vertical mounting surface, can be titled forward and backward by +f-22.5" on vertical mounting surface, can be titled forward and backward by +f-22.5" on vertical mounting surface, can be titled forward and backward by +f-22.5" on vertical mounting surface, can be titled forward and backward by +f-22.5" on vertical mounting surface, can be titled forward and backward by +f-22.5" on vertical mounting surface, can be titled forward and backward by +f-22.5" on vertical mounting surface, can be titled forward and backward by +f-22.5" on vertical mounting surface, can be titled forward and backward by +f-22.5" on vertical mounting surface, can be titled forward and backward by +f-22.5" on vertical mounting surface, can be titled forward and backward by +f-22.5" on vertical mounting surface, can be titled forward and backward by +f-22.5" on vertical mounting surface, can be titled forward and backward by +f-22.5" on vertical mounting surface, can be titled forward and backward by +f-22.5" on vertical mounting surface, can be titled forward and backward by +f-22.5" on vertical mounting surface, can be titled forward and backward by +f-22.5" on vertical mounting surface, can be titled forward and backward by +f-22.5" on vertical mounting surface, can be titled forward and backward by +f-22.5" on vertical mounting surface, can be titled forward and backward by +f-22.5" on vertical mounting surface, can be titled forward and backward by +f-22.5" on vertical mounting surface, can be titled forward		A600 / P600
• for short-circuit protection of the main circuit — with type of assignment 2 required — with type of assignment 2 required for short-circuit protection of the auxiliary switch required saction possible on vertical mounting surface; can be titled forward and backward by 47-2.25" on vertical mounting surface; can be titled forward and saction possible on vertical mounting surface; can be titled forward and possible on vertical mounting surface; can be titled forward and possible on vertical mounting surface; can be titled forward and possible on vertical mounting surface; can be titled forward and possible on vertical mounting surface; can be titled forward and possible on vertical mounting surface; can be titled forward and possible on vertical mounting surface; can be titled forward and possible on vertical mounting surface; can be titled forward and possible on vertical mounting surface; can be titled forward and possible on vertical mounting surface; can be titled forward and possible on vertical mounting surface; can be titled forward and possible on vertical mounting surface; can be titled forward and possible on vertical mounting surface; can be titled forward and possible on vertical mounting surface; can be titled forward and possible on vertical mounting surface; can be titled forward and possible on vertical mounting surface; can be titled forward and possible on vertical mounting surface; can be titled forward and possible on vertical mounting surface; can be titled forward and possible on vertical mounting surface; can be titled forward and possible on vertical mounting surface; can be titled forward and possible on vertical mounting surface; can be titled forward and possible on vertical mou	Short-circuit protection	
with type of coordination 1 required with type of assignment 2 required for short-circuit protection the auxiliary switch required for switch protection surface, can be titled forward and backward by 4-/-2.25 for vertical mounting surface; can be titled forward and backward by 4-/-2.25 for vertical mounting surface; can be titled forward and backward by 4-/-2.25 for vertical mounting surface; can be titled forward and backward by 4-/-2.25 for vertical mounting surface; can be titled forward and backward by 4-/-2.25 for vertical mounting surface; can be titled forward and backward by 4-/-2.25 for vertical mounting surface; can be titled forward and backward by 4-/-2.25 for vertical mounting surface; can be titled forward and backward by 4-/-2.25 for vertical mounting surface; can be titled forward and backward by 4-/-2.25 for vertical mounting surface; can be titled forward and backward by 4-/-2.25 for vertical mounting surface; can be titled forward and backward by 4-/-2.25 for vertical mounting surface; can be titled forward and backward by 4-/-2.25 for members and surface; can be titled forward and backward by 4-/-2.25 for members and surface; can be titled forward and backward by 4-/-2.25 for members and surface; can be titled forward and backward by 4-/-2.25 for members and surface; can be titled forward and backward by 4-/-2.25 for members and surface; can be titled forward and backward by 4-/-2.25 for members and surface; can be titled forward and backward by 4-/-2.25 for members and surface; can be titled forward and backward by 4-/-2.25 for members and surface; can be titled forward and backward by 4-/-2.25 for members and surface; can be titled forward and backward by 4-/-2.25 for members and surface; can be titled forward and backward by 4-/-2.25	-	
- with type of assignment 2 required for short-circult protection of the auxiliary switch required fuse gis: 10 A ***H80" rotation possible on vertical mounting surface; can be titled forward and backward by +-2.2.5" on vertical mounting surface; can be titled forward and backward by +-2.2.5" on vertical mounting surface; can be titled forward and backward by +-2.2.5" on vertical mounting surface; can be titled forward and backward by +-2.2.5" on vertical mounting surface; can be titled forward and backward by +-2.2.5" on vertical mounting surface; can be titled forward and backward by +-2.2.5" on vertical mounting surface; can be titled forward and backward by +-2.2.5" on vertical mounting surface; can be titled forward and backward by +-2.2.5" on vertical mounting surface; can be titled forward and backward by +-2.2.5" on vertical mounting surface; can be titled forward and backward by +-2.2.5" on vertical mounting surface; can be titled forward and backward by +-2.2.5" on vertical mounting surface; can be titled forward and backward by2.5" on vertical mounting surface; can be titled forward and backward by2.5" on min surface; can be titled forward and backward by2.2.5" on min surface; can be titled forward and backward by2.2.5" on min surface; can be titled forward and backward by2.2.5" on min surface; can be titled forward and backward by2.2.5" on min surface; can be titled forward and backward by2.2.5" on min surface; can be titled forward and backward by2.2.5" on min surface; can be titled forward and backward by2.2.5" on min surface; can be titled forward and backward by2.2.5" on min surface; can be titled forward and backward by2.2.5" on min surface; can be titled forward and backward by2.2.5" on min surface; can be titled forward and backward by2.2.5" on min surface; can be titled forward and backward by2.2.5" on min surface; can be titled forward and backward by2.2.5" on min surface; can be titled forward and backward by2.2.5" on min surface; can be tit	*	
installation/mounting/dimensions mounting position fastening method side-by-side mounting with 140 mm with 70 mm depth - forwards - backwards - downwards - backwards - upwards - the side - of grounded parts - forwards - upwards - backwards - upwards - upwards - upwards - the side - upwards - upwards - upwards - upwards - the side - upwards - upwards - the side - upwards - upwards - upwards - upwards - upwards - the side - upwards - the side - upwards - the side - upwards - to mm - at the side - upwards - to mm - the side - the side - the side - the side - t	**	
mounting position mounting position fastening method side-by-side mounting height width formatic space - lowards - upwards - of orwards - upwards - upwards - the side - downwards - upwards - of orgounded parts - forwards - upwards - up		
mounting position +/-1807 'retation possible on vertical mounting surface; can be filted forward and backward by +/-22.5" on vertical mounting surface; can be filted forward and backward by +/-22.5" on vertical mounting surface; can be filted forward and backward by +/-22.5" on vertical mounting surface; can be filted forward and backwards apan on mounting onto 35 mm DIN rail according to DIN EN 60715 * side-by-side mounting - forwards - forwards - puwards - upwards - downwards - backwards - upwards - at the side - of mine and the side - of mine and the side - of mine and the side - of mine - downwards - of mine - of five parts - forwards - forwards - upwards - forwards - for main current circuit - for auxiliary and control circuit - for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing - for forwalting contacts - for formal courting contacts - for formal contactor contactor cross-sections - for formal courting contacts - for formal courting courting contacts		fuse gG: 10 A
backward by +f-22.5" on vertical mounting surface side-by-side mounting ves height 140 mm width 70 mm depth 152 mm required spacing with side-by-side mounting with side-by-side mounting with side-by-side mounting - forwards - puwards - upwards - downwards - downwards - at the side - for grounded parts - forwards - upwards - to mm - to fire yeards - to mm - backwards - upwards - o mm - for grounded parts - forwards - to mm - to fire yeards - to mm - backwards - upwards - to mm - backwards - upwards - to mm - backwards - upwards - to mm - to fire yeards - for five parts - forwards - for five parts - forwards - to mm - to the side - downwards - to mm - to the side - downwards - to mm - to the side - downwards - to mm - to the side - downwards - to mm - to the side - downwards - to mm - to the side - downwards - to mm - to the side - downwards - to mm - to the side - downwards - to mm - to the side - downwards - to mm - to reavaliany and control circuit - for auxiliary and control circuit - for main current circuit - for firely stranded with core end processing - solid or stranded - firely stranded with core end processing - 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
Neight	mounting position	
Neight 140 mm 152 mm 153 mm 1	fastening method	
width 70 mm depth 152 mm required spacing 152 mm • with side-by-side mounting 0 mm - forwards 0 mm - backwards 0 mm - downwards 0 mm - drowards 0 mm - for grounded parts 0 mm - backwards 0 mm - backwards 0 mm - downwards 10 mm - downwards 10 mm - for live parts 0 mm - downwards 0 mm - backwards 0 mm - upwards 0 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 10 mm connections/ Terminals type of electrical connection * for auxiliary and control circuit screw-type terminals * for auxiliary and control circuit screw-type terminals * of magnet coil 2x (2.5 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²) * spid 2x (6 16 mm²), 2x (10 50 mm²), 1x	side-by-side mounting	
depth	height	140 mm
Tequired spacing ■ with side-by-side mounting	width	70 mm
with side-by-side mounting	depth	152 mm
forwards 0 mm backwards 0 mm downwards 0 mm downwards 0 mm at the side 0 mm forwards 0 mm forwards 0 mm backwards 0 mm backwards 0 mm backwards 0 mm backwards 10 mm downwards 10 mm forwards 0 mm backwards 0 mm backwards 10 mm backwards 5 mm		
backwards upwards upwards downwards at the side or mm at the side or mm or		
- upwards		
- downwards - at the side • for grounded parts - forwards - backwards - upwards - at the side • for live parts - forwards - of main current circuit • for auxiliary and control circuit • for auxiliary contacts • solid • stranded • solid or stranded • for live part attes ide • for main current circuit • for main current circuit • screw-type terminals • screw-type terminals • screw-type terminals • screw-type terminals • type of connectable conductor cross-sections • for inely stranded • solid or stranded • for auxiliary contacts • solid • for auxiliary contacts • solid or stranded • for other stranded • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely 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		
- at the side • for grounded parts - forwards 0 mm - backwards 0 mm - upwards 10 mm - at the side 10 mm - downwards • for live parts - forwards 0 mm • for live parts - forwards 0 mm - backwards 0 mm - backwards 0 mm - backwards 10 mm - downwards - the side 10 mm - connections/Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • screw-type terminals • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • stranded • solid or stranded • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing 2x (2.5 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²)] type of connectable conductor cross-sections • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing 2x (2.5 15 mm²), 2x (0.75 2.5 mm²) - solid or stranded - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - solid or stranded - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	•	
• for grounded parts — forwards — backwards — upwards — at the side — downwards — 10 mm • for live parts — forwards — backwards — 10 mm • for live parts — forwards — upwards — backwards — upwards — upwards — upwards — 10 mm • downwards — 10 mm • of mm • for auther side — 10 mm • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • solid • stranded • solid or stranded • finely stranded with core end processing • for auxiliary contacts • finely stranded • finely stranded — finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) — solid or stranded — finely stranded with core end processing		
- forwards		0 mm
- upwards - at the side - downwards 10 mm • for live parts - forwards - backwards - upwards - upwards - downwards - downwards - downwards - downwards - downwards - at the side - to mm Connections/ Terminals type of electrical connection • for main current circuit • screw-type terminals • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • stranded • stranded • stranded • stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid - solid - 2x (2.5 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²) type of connectable conductor cross-sections • for auxiliary contacts - solid - solid - 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - 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		
- at the side		
 downwards for live parts forwards backwards upwards downwards downwards at the side 10 mm at the side 10 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 stranded stranded stranded solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid 2x (2.5 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²) type of connectable conductor cross-sections finely stranded with core end processing 2x (2.5 16 mm²), [2x (6 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²) type of connectable conductor cross-sections for auxiliary contacts 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) finely stranded with core end processing 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 live parts forwards backwards upwards downwards mm at the side 10 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 stranded stranded solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded of incompany (2x (2.5 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²)) type of connectable conductor cross-sections for auxiliary contacts solid or stranded of incompany (2x (2.5 35 mm²), 1x (2.5 50 mm²) type of connectable conductor cross-sections for auxiliary contacts solid or stranded or stra		
forwards 0 mm backwards 0 mm upwards 10 mm downwards 10 mm at the side 10 mm at the side 10 mm Connections/ Terminals type of electrical connection		10 mm
- backwards - upwards - upwards - downwards - at the side 10 mm - at the side 10 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 • stranded • stranded • solid or stranded • finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts 2x (2.5 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²) 2x (2.5 35 mm²), 1x (2.5 50 mm²) type of connectable conductor cross-sections • for auxiliary contacts - solid - solid or stranded - solid or s	·	
- upwards - downwards - at the side 10 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 • stranded • stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts 2x (2.5 16 mm²) 2x (2.5 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²) type of connectable conductor cross-sections • for auxiliary contacts - solid - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - 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		
- downwards - at the side 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 • stranded • solid or stranded • finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts 2x (2.5 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²) 2x (2.5 16 mm²); [2x (6 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²)] 2x (2.5 35 mm²), 1x (2.5 50 mm²) type of connectable conductor cross-sections • for auxiliary contacts - solid - solid or stranded - 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) - finely stranded with core end processing		
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• for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14)		
AWG number as coded connectable conductor cross section for 10 2	·	

main contacts		
Safety related data		
product function		
 mirror contact according to IEC 60947-4-1 	Yes	
 positively driven operation according to IEC 60947-5-1 	No	
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	

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>





Type Examination Certificate





Type Test Certificates/Test Report



Marine / Shipping other Railway









Confirmation

Vibration and Shock

Dangerous Good

Transport Information

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=3RT2545-1NP30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2545-1NP30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2545-1NP30

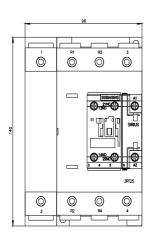
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

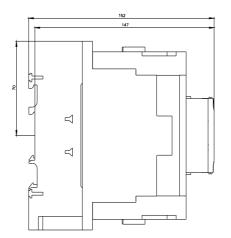
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2545-1NP30&lang=en

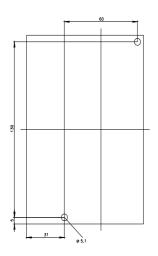
Characteristic: Tripping characteristics, I²t, Let-through current

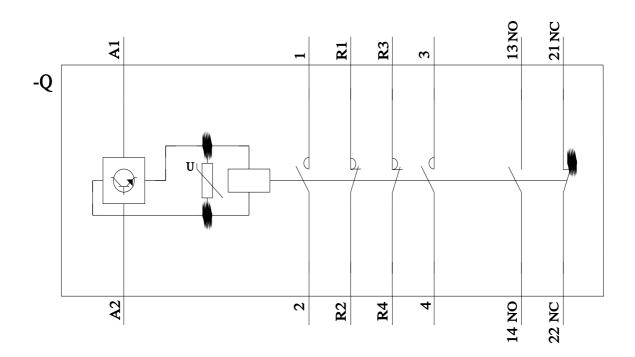
https://support.industry.siemens.com/cs/ww/en/ps/3RT2545-1NP30/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2545-1NP30&objecttype=14&gridview=view1

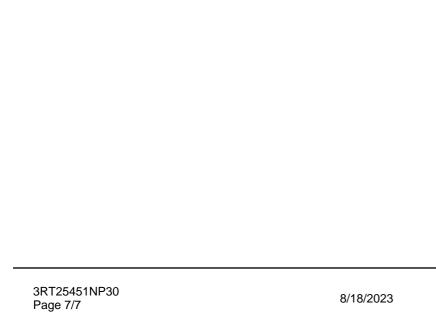








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