## **SIEMENS**

## Data sheet

## 3RT2026-1NF30

power contactor, AC-3 25 A, 11 kW / 400 V 1 NO + 1 NC, AC (50-60 Hz) DC operation 95-130 V AC/DC, 3-pole, Size S0, screw terminal



Product brand name	SIRIUS
Product designation	Power contactor
Product type designation	3RT2
General technical data	
Size of contactor	SO
Product extension	
<ul> <li>function module for communication</li> </ul>	No
Auxiliary switch	Yes
Surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for safe isolation	
<ul> <li>between coil and main contacts acc. to EN</li> </ul>	400 V
60947-1	
Protection class IP	
• on the front	IP20
• of the terminal	IP20

 • of the terminal
 IP20

 Shock resistance at rectangular impulse
 • at AC
 8,3g / 5 ms, 5,3g / 10 ms

● at DC	10g / 5 ms, 7,5g / 10 ms
Shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
● at DC	15g / 5 ms, 10g / 10 ms
Mechanical service life (switching cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronics-</li> </ul>	5 000 000
compatible auxiliary switch block typical	
<ul> <li>of the contactor with added auxiliary switch</li> </ul>	10 000 000
block typical	
Reference code acc. to DIN 40719 extended	К
according to IEC 204-2 acc. to IEC 750 Reference code acc. to DIN EN 81346-2	Q
Reference code acc. to Din EN 01340-2	Q
Ambient conditions	
Installation altitude at height above sea level	
• maximum	2 000 m
Ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
Number of poles for main current circuit	3
Number of NO contacts for main contacts	3
Operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	40 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	40 A
— up to 690 V at ambient temperature 60 °C rated value	35 A
• at AC-2 at 400 V rated value	25 A
• at AC-3	
— at 400 V rated value	25 A
— at 500 V rated value	18 A
— at 690 V rated value	13 A
• at AC-4 at 400 V rated value	15.5 A
Connectable conductor cross-section in main circuit	
at AC-1	
• at 60 °C minimum permissible	10 mm <sup>2</sup>
• at 40 °C minimum permissible	10 mm <sup>2</sup>

Operating current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	9 A
• at 690 V rated value	9 A
Operating current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	35 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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
Operating current	
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 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	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 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	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A

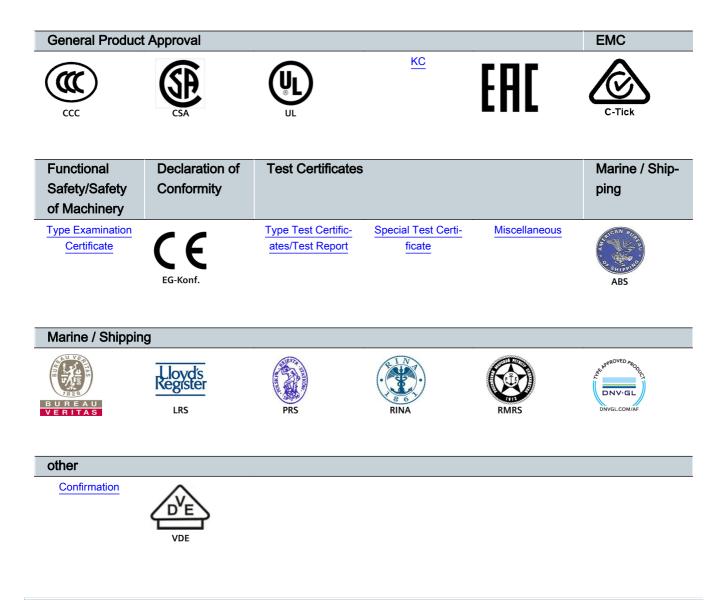
— at 600 V rated value	0.6 A
Operating power	
• at AC-1	
— at 230 V rated value	13.3 kW
— at 230 V at 60 °C rated value	13.3 kW
— at 400 V rated value	23 kW
— at 400 V at 60 °C rated value	23 kW
— at 690 V rated value	40 kW
— at 690 V at 60 °C rated value	40 kW
• at AC-2 at 400 V rated value	11 kW
• at AC-3	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	11 kW
Operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	4.4 kW
• at 690 V rated value	7.7 kW
Thermal short-time current limited to 10 s	200 A
Power loss [W] at AC-3 at 400 V for rated value of	1.6 W
the operating current per conductor	
No-load switching frequency	5 000 1/h
• at AC	1 500 1/h
at DC     Operating frequency	1 500 1/11
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
Type of voltage of the control supply voltage	AC/DC
Control supply voltage at AC	05 420.1/
• at 50 Hz rated value	95 130 V
at 60 Hz rated value	95 130 V
Control supply voltage at DC	95 130 V
rated value     Operating range factor control supply voltage rated	95 130 V
value of magnet coil at DC	
• initial value	0.7
• Full-scale value	1.3
-	

Operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.7 1.3
● at 60 Hz	0.7 1.3
Design of the surge suppressor	with varistor
Inrush current peak	
• at 110 V	19 A
Duration of inrush current peak	
• at 110 V	30 µs
Apparent pick-up power of magnet coil at AC	
● at 50 Hz	11.9 V·A
• at 60 Hz	12 V·A
Inductive power factor with closing power of the coil	
● at 50 Hz	0.98
• at 60 Hz	0.98
Apparent holding power of magnet coil at AC	
● at 50 Hz	1.6 V·A
● at 60 Hz	1.8 V·A
Inductive power factor with the holding power of the coil	
• at 50 Hz	0.79
• at 60 Hz	0.74
Closing power of magnet coil at DC	10.2 W
Holding power of magnet coil at DC	1.3 W
Closing delay	
• at AC	50 70 ms
• at DC	50 70 ms
Opening delay	
● at AC	35 45 ms
• at DC	35 45 ms
Arcing time	10 10 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	
<ul> <li>instantaneous contact</li> </ul>	1
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	3 A

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       1 A         at 220 V rated value       1 A         at 220 V rated value       0.15 A         Operating current at DC-13       0 A         at 24 V rated value       10 A         at 48 V rated value       2 A         at 48 V rated value       0.15 A         Operating current at DC-13       0 A         at 48 V rated value       2 A         at 60 V rated value       2 A         at 110 V rated value       0.9 A         at 125 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       7         Full-load current (FLA) for three-phase AC motor       1 A         at 600 V rated value       21 A         at 480 V rated value       21 A         at 480 V rated value       2 hp         - at 200/208 V rated value       3 hp         • for three-phase AC motor       5 hp         - at 200/208 V rated value       5 h	• at 690 V rated value	1 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         Operating current at DC-13       10 A         at 48 V rated value       10 A         at 48 V rated value       2 A         at 40 V rated value       10 A         at 48 V rated value       2 A         at 60 V rated value       2 A         at 60 V rated value       2 A         at 110 V rated value       0.9 A         at 220 V rated value       0.3 A         at 220 V rated value       0.1 A         Contact reliability of auxiliary contacts       1 faulty switching per 100 million (17 V, 1 mA)         U/COSA ratings       7         Full-load current (FLA) for three-phase AC motor       1 faulty switching per 100 million (17 V, 1 mA)         U/COSA ratings       21 A         val 600 V rated value       2 hp         - at 480 V rated value       2 hp         - at 101/120 V rated value       2 hp         - at 200/208 V rated value       5 hp         - at 200/208 V rated value       5 hp         - at	Operating current at DC-12	
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         Operating current at DC-13       •         • at 24 V rated value       10 A         • at 24 V rated value       2 A         • at 60 V rated value       2 A         • at 60 V rated value       2 A         • at 60 V rated value       2 A         • at 10 V rated value       0.9 A         • at 220 V rated value       0.3 A         • at 220 V rated value       0.1 A         Contact reliability of auxiliary contacts       1 faulty switching per 100 million (17 V, 1 mA)         U/CSA ratings       Full-load current (FLA) for three-phase AC motor         • at 600 V rated value       21 A         • at 600 V rated value       21 A         • at 600 V rated value       2 hp         • for single-phase AC motor       -         - at 200 Z08 V rated value       5 hp         - at 200208 V rated value       5 hp         - at 200208 V rated value       5 hp         - at 200208 V rated value       20 hp         Contact rating of auxiliary contacts according to UL       <	• at 24 V rated value	10 A
at 110 V rated value       3 A         at 125 V rated value       2 A         at 220 V rated value       1 A         at 220 V rated value       0.15 A         Operating current at DC-13       0 A         at 24 V rated value       10 A         at 24 V rated value       2 A         at 48 V rated value       2 A         at 10 V rated value       2 A         at 110 V rated value       2 A         at 110 V rated value       0.9 A         at 220 V rated value       0.3 A         at 220 V rated value       0.1 A         Contact reliability of auxiliary contacts       1 faulty switching per 100 million (17 V, 1 mA)         UL/CSA ratings       1         Full-load current (FLA) for three-phase AC motor       21 A         at 600 V rated value       21 A         at 600 V rated value       22 A         Vielded mechanical performance [tp]       • for single-phase AC motor         - at 230 V rated value       3 hp         • for three-phase AC motor       - at 220/230 V rated value         - at 200/208 V rated value       7.5 hp         - at 460/480 V rated value       2 hp         - at 460/480 V rated value       2 hp         - at 450/480 V rated value       2 h	• at 48 V rated value	6 A
at 125 V rated value       2 A         at 220 V rated value       1 A         • at 600 V rated value       0.15 A         Operating current at DC-13       10 A         • at 24 V rated value       2 A         • at 80 V rated value       2 A         • at 60 V rated value       2 A         • at 60 V rated value       2 A         • at 60 V rated value       0.9 A         • at 125 V rated value       0.3 A         • at 220 V rated value       0.1 A         Contact reliability of auxiliary contacts       1 faulty switching per 100 million (17 V, 1 mA)         U/CSA ratings       Full-load current (FLA) for three-phase AC motor         • at 460 V rated value       21 A         • at 600 V rated value       2 hp         • at 600 V rated value       2 hp         • at 230 V rated value       3 hp         • for three-phase AC motor       -         - at 230 V rated value       5 hp         - at 200/208 V rated value       5 hp         - at 460/480 V rated value       2 hp         - at 460/480 V rated value       2 hp      <	• at 60 V rated value	6 A
ait 220 V rated value       1 A         • ait 220 V rated value       0.15 A         Operating current at DC-13       10 A         • at 24 V rated value       10 A         • at 48 V rated value       2 A         • at 10 V rated value       2 A         • at 10 V rated value       0.9 A         • at 125 V rated value       0.9 A         • at 220 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 three-phase AC motor         • at 480 V rated value       21 A         • at 600 V rated value       2 hp         • at 200 V rated value       3 hp         • for three-phase AC motor       - at 200/208 V rated value         • at 200/208 V rated value       5 hp         - at 200/208 V rated value       5 hp         - at 460/480 V rated value       20 hp         Contact rating of auxiliary contacts according to UL       A600 / Q600	• at 110 V rated value	3 A
at 800 V rated value       0.15 A         Operating current at DC-13       10 A         • at 24 V rated value       10 A         • at 48 V rated value       2 A         • at 60 V rated value       2 A         • at 10 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 three-phase AC motor         • at 800 V rated value       21 A         • at 600 V rated value       22 A         Yielded mechanical performance [hp]       • for single-phase AC motor         • at 100/120 V rated value       2 hp         • at 200/208 V rated value       3 hp         • for three-phase AC motor       - at 220/230 V rated value         • at 200/208 V rated value       5 hp         - at 200/208 V rated value       5 hp         - at 460/480 V rated value       20 hp         Contact rating of auxiliary contacts according to UL       A600 / Q600         Short-circuit protection       20 hp         Contact rating of auxiliary contacts according to UL       A600 / Q600         Short-circuit protection of the main circuit       -	• at 125 V rated value	2 A
Operating current at DC-13       10 A         • 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       0.1 A         Contact reliability of auxiliary contacts       1 faulty switching per 100 million (17 V, 1 mA)         UL/CSA ratings         Full-load current (FLA) for three-phase AC motor         • at 480 V rated value       21 A         • at 600 V rated value       22 A         Vielded mechanical performance [hp]         • for single-phase AC motor       - at 110/120 V rated value         • at 200 V rated value       2 hp         - at 200/208 V rated value       3 hp         • for three-phase AC motor       - at 220/230 V rated value         - at 200/208 V rated value       5 hp         - at 460/480 V rated value       2 hp         - at 460/480 V rated value       2 hp         - at 65/600 V rated value       2 hp         - at 65/600 V rated value       2 hp         - at 60/480 V rated value       2 hp         - at 460/480 V rated value       2 hp         - at 460/480 V r	• at 220 V rated value	1 A
<ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>2 A</li> <li>at 60 V rated value</li> <li>2 A</li> <li>at 10 V rated value</li> <li>1 A</li> <li>at 125 V rated value</li> <li>0.9 A</li> <li>0.3 A</li> <li>at 600 V rated value</li> <li>0.1 A</li> <li>Contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UUCSA ratings</li> <li>Full-load current (FLA) for three-phase AC motor         <ul> <li>at 480 V rated value</li> <li>21 A</li> <li>at 600 V rated value</li> <li>22 A</li> </ul> </li> <li>Full-load current (FLA) for three-phase AC motor         <ul> <li>at 480 V rated value</li> <li>21 A</li> <li>at 600 V rated value</li> <li>22 A</li> </ul> </li> <li>Yielded mechanical performance [hp]         <ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>2 hp</li> <li>at 200/201 V rated value</li> <li>3 hp</li> </ul> </li> <li>for three-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>5 hp</li> <li>at 200/208 V rated value</li> <li>5 hp</li> <li>at 480/0 V rated value</li> <li>75 hp</li> <li>at 600/480 V rated value</li> <li>20 hp</li> </ul> </li> <li>Contact rating of auxillary contacts according to UL</li> </ul> <li>Store-circuit protection of the main circuit         <ul> <li>with type of coordination 1 required</li> <li>GG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), IA (415 V, 80 kA)</li> <li>with type of assignment 2 required</li> <li>GG: 35A (690V, 100 kA), aM: 20A (690V, 100 kA), B888</li> </ul> </li>	• at 600 V rated value	0.15 A
<ul> <li>et al 48 V rated value</li> <li>et 48 V rated value</li> <li>et 60 V rated value</li> <li>at 10 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>21 A</li> <li>at 600 V rated value</li> <li>22 A</li> <li>Yielded mechanical performance [hp]</li> <li>for single-phase AC motor <ul> <li>at 200 V rated value</li> <li>2 hp</li> <li>at 200 V rated value</li> <li>3 hp</li> </ul> </li> <li>for three-phase AC motor <ul> <li>at 200/208 V rated value</li> <li>5 hp</li> <li>at 200/208 V rated value</li> <li>5 hp</li> <li>at 200/208 V rated value</li> <li>5 hp</li> <li>at 480/80 V rated value</li> <li>20 hp</li> </ul> </li> <li>Contact rating of auxiliary contacts according to UL.</li> <li>A600 / Q600</li> </ul> <li>Short-circuit protection of the main circuit <ul> <li>with type of coordination 1 required</li> <li>gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), B888</li> </ul> </li>	Operating current at DC-13	
<ul> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 10 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>0.3 A</li> <li>at 600 V rated value</li> <li>0.1 A</li> </ul> Contact reliability of auxiliary contacts <ul> <li>I faulty switching per 100 million (17 V, 1 mA)</li> </ul> UL/CSA ratings Full-load current (FLA) for three-phase AC motor <ul> <li>at 480 V rated value</li> <li>21 A</li> <li>at 600 V rated value</li> <li>22 A</li> </ul> Yielded mechanical performance [hp] <ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>2 hp</li> <li>at 230 V rated value</li> <li>3 hp</li> <li>for three-phase AC motor</li> <li>at 200/208 V rated value</li> <li>5 hp</li> <li>at 200/208 V rated value</li> <li>5 hp</li> <li>at 480/480 V rated value</li> <li>20 hp</li> </ul> Contact rating of auxiliary contacts according to UL <ul> <li>A600 / Q600</li> </ul> Short-circuit protection of the main circuit <ul> <li>with type of coordination 1 required</li> <li>GS: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), IA (415 V, 80 kA)</li> <li>with type of assignment 2 required</li> <li>gG: 35A (690V, 100 kA), aM: 20A (690V, 100 kA), BS88</li> </ul>	• at 24 V rated value	10 A
<ul> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>0.1 A</li> <li>Contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UL/CSA ratings</li> <li>Full-load current (FLA) for three-phase AC motor <ul> <li>at 480 V rated value</li> <li>21 A</li> <li>at 600 V rated value</li> <li>22 A</li> </ul> </li> <li>Yielded mechanical performance [hp] <ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>2 hp</li> <li>at 230 V rated value</li> <li>3 hp</li> </ul> </li> <li>for three-phase AC motor <ul> <li>at 200/208 V rated value</li> <li>5 hp</li> <li>at 200/208 V rated value</li> <li>5 hp</li> <li>at 480/480 V rated value</li> <li>20 hp</li> </ul> </li> <li>Contact rating of auxiliary contacts according to UL</li> <li>A600 / Q600</li> </ul> <li>Short-circuit protection of the main circuit <ul> <li>with type of coordination 1 required</li> <li>GS: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), IA (415 V, 80 kA)</li> <li>with type of assignment 2 required</li> <li>gG: 35A (690V, 100kA), aM: 20A (690V, 100 kA), BS88</li> </ul></li>	• at 48 V rated value	2 A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>be for single-phase AC motor</li> <li>at 101/120 V rated value</li> <li>be for single-phase AC motor</li> <li>at 200/208 V rated value</li> <li>be for three-phase AC motor</li> <li>at 200/208 V rated value</li> <li>contact rating of auxiliary contacts according to UL</li> <li>A600 V (ated value</li> <li>be for short-circuit protection</li> <li>at 460/480 V rated value</li> <li>be for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), 1 A (415 V, 80 kA)</li> <li>with type of assignment 2 required</li> <li>gG: 35A (690V, 100 kA), aM: 20A (690V, 100 kA), B888</li> </ul>	• at 60 V rated value	2 A
<ul> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>0.3 A</li> <li>0.1 A</li> <li>Contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UL/CSA ratings</li> <li>Full-load current (FLA) for three-phase AC motor <ul> <li>at 480 V rated value</li> <li>21 A</li> <li>at 600 V rated value</li> <li>22 A</li> </ul> </li> <li>Yielded mechanical performance [hp] <ul> <li>for single-phase AC motor</li> <li>at 10/120 V rated value</li> <li>2 hp</li> <li>at 230 V rated value</li> <li>3 hp</li> </ul> </li> <li>for three-phase AC motor <ul> <li>at 200/208 V rated value</li> <li>5 hp</li> <li>at 200/208 V rated value</li> <li>5 hp</li> <li>at 200/208 V rated value</li> <li>5 hp</li> <li>at 460/480 V rated value</li> <li>20 hp</li> </ul> </li> <li>Contact rating of auxiliary contacts according to UL</li> <li>A600 / Q600</li> </ul> <li>Short-circuit protection <ul> <li>bioth fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), IA A (415 V, 80 kA)</li> <li>with type of assignment 2 required</li> <li>gG: 35A (690V, 100 kA), aM: 20A (690V, 100 kA), B888</li> </ul></li>	• at 110 V rated value	1 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 three-phase AC motor       21 A         • at 480 V rated value       21 A         • at 600 V rated value       22 A         Yielded mechanical performance [hp]       • for single-phase AC motor         - at 110/120 V rated value       2 hp         - at 230 V rated value       3 hp         • for three-phase AC motor       - at 200/208 V rated value         - at 200/208 V rated value       5 hp         - at 220/230 V rated value       5 hp         - at 220/230 V rated value       15 hp         - at 460/480 V rated value       20 hp         Contact rating of auxiliary contacts according to UL       A600 / Q600         Short-circuit protection       - with type of coordination 1 required         - with type of assignment 2 required       gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), I         - with type of assignment 2 required       gG: 35A (690V, 100 kA), aM: 20A (690V, 100 kA), BS88	• at 125 V rated value	0.9 A
Contact reliability of auxiliary contacts       1 faulty switching per 100 million (17 V, 1 mA)         UL/CSA ratings         Full-load current (FLA) for three-phase AC motor       21 A         • at 480 V rated value       22 A         Yielded mechanical performance [hp]       6 for single-phase AC motor         • at 110/120 V rated value       2 hp         - at 230 V rated value       3 hp         • for three-phase AC motor       - at 200/208 V rated value         - at 200/208 V rated value       5 hp         - at 200/208 V rated value       5 hp         - at 200/208 V rated value       7.5 hp         - at 460/480 V rated value       15 hp         - at 575/600 V rated value       20 hp         Action V rated value       20 hp         - at 575/600 V rated value       20 hp         Contact rating of auxiliary contacts according to UL       A600 / Q600         Short-circuit protection       Design of the fuse link         • for short-circuit protection of the main circuit       - with type of coordination 1 required         - with type of assignment 2 required       gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88	• at 220 V rated value	0.3 A
UL/CSA ratings         Full-load current (FLA) for three-phase AC motor         • at 480 V rated value       21 A         • at 600 V rated value       22 A         Yielded mechanical performance [hp]         • for single-phase AC motor       2 hp         - at 110/120 V rated value       2 hp         - at 230 V rated value       3 hp         • for three-phase AC motor       - at 200/208 V rated value         - at 200/208 V rated value       5 hp         - at 220/230 V rated value       7.5 hp         - at 460/480 V rated value       15 hp         - at 575/600 V rated value       20 hp         Contact rating of auxiliary contacts according to UL         A600 / Q600         Short-circuit protection         Design of the fuse link         • for short-circuit protection of the main circuit       - with type of coordination 1 required         - with type of assignment 2 required       gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), IA	• at 600 V rated value	0.1 A
Full-load current (FLA) for three-phase AC motor       21 A         • at 480 V rated value       21 A         • at 600 V rated value       22 A         Yielded mechanical performance [hp]       • for single-phase AC motor         - at 110/120 V rated value       2 hp         - at 230 V rated value       3 hp         • for three-phase AC motor       - at 200/208 V rated value         - at 200/208 V rated value       5 hp         - at 220/230 V rated value       5 hp         - at 460/480 V rated value       15 hp         - at 575/600 V rated value       20 hp         Contact rating of auxiliary contacts according to UL       A600 / Q600         Short-circuit protection       Design of the fuse link         • for short-circuit protection of the main circuit       - with type of coordination 1 required         - with type of assignment 2 required       9G: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), I	Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
Full-load current (FLA) for three-phase AC motor       21 A         • at 480 V rated value       21 A         • at 600 V rated value       22 A         Yielded mechanical performance [hp]       • for single-phase AC motor         - at 110/120 V rated value       2 hp         - at 230 V rated value       3 hp         • for three-phase AC motor       - at 200/208 V rated value         - at 200/208 V rated value       5 hp         - at 220/230 V rated value       5 hp         - at 460/480 V rated value       15 hp         - at 575/600 V rated value       20 hp         Contact rating of auxiliary contacts according to UL       A600 / Q600         Short-circuit protection       Design of the fuse link         • for short-circuit protection of the main circuit       - with type of coordination 1 required         - with type of assignment 2 required       9G: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), I	III /CCA rotingo	
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>22 A</li> <li>Yielded mechanical performance [hp]</li> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>thp</li> <li>at 230 V rated value</li> <li>bp</li> </ul> </li> <li>for three-phase AC motor <ul> <li>at 200/208 V rated value</li> <li>5 hp</li> <li>at 220/230 V rated value</li> <li>5 hp</li> <li>at 220/230 V rated value</li> <li>5 hp</li> <li>at 460/480 V rated value</li> <li>bp</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Short-circuit protection</li> </ul> Contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection of the main circuit <ul> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> <li>gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), IA (415 V, 80 kA)</li> <li>with type of assignment 2 required</li> <li>gG: 35A (690V, 100 kA), aM: 20A (690V, 100 kA), BS88</li> </ul>		
<ul> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>22 A</li> <li>Yielded mechanical performance [hp]</li> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>bp</li> <li>at 230 V rated value</li> <li>cfor three-phase AC motor</li> <li>at 200/208 V rated value</li> <li>5 hp</li> <li>at 200/208 V rated value</li> <li>5 hp</li> <li>at 220/230 V rated value</li> <li>5 hp</li> <li>at 460/480 V rated value</li> <li>20 hp</li> </ul> </li> <li>Contact rating of auxiliary contacts according to UL</li> <li>A600 / Q600</li> </ul> Short-circuit protection Design of the fuse link <ul> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>G: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), IA (415 V, 80 kA)</li> <li>with type of assignment 2 required</li> <li>gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88</li> </ul>		21 A
Yielded mechanical performance [hp]         • for single-phase AC motor         - at 110/120 V rated value         - at 230 V rated value         • for three-phase AC motor         - at 200/208 V rated value         5 hp         - at 220/230 V rated value         - at 220/230 V rated value         - at 460/480 V rated value         - at 575/600 V rated value         2 hp         Contact rating of auxiliary contacts according to UL         A600 / Q600    Short-circuit protection          Design of the fuse link         • for short-circuit protection of the main circuit         - with type of coordination 1 required         gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), I         A (415 V, 80 kA)         - with type of assignment 2 required		
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>bp</li> <li>at 230 V rated value</li> <li>bp</li> </ul> </li> <li>for three-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>bp</li> <li>at 220/230 V rated value</li> <li>bp</li> <li>at 460/480 V rated value</li> <li>cat 575/600 V rated value</li> <li>contact rating of auxiliary contacts according to UL</li> </ul> </li> <li>A600 / Q600</li> <li>Short-circuit protection</li> <li>Ge: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), 10 kA), 10 kA), aM: 50 A (690 V, 100 kA), aM: 20A (690V, 100 kA), BS88</li> <li>with type of assignment 2 required</li> <li>gG: 35A (690V, 100 kA), aM: 20A (690V, 100 kA), BS88</li> </ul>		
<ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for three-phase AC motor</li> <li>at 200/208 V rated value</li> <li>5 hp</li> <li>at 220/230 V rated value</li> <li>5 hp</li> <li>at 460/480 V rated value</li> <li>5 hp</li> <li>at 575/600 V rated value</li> <li>20 hp</li> <li>Contact rating of auxiliary contacts according to UL</li> <li>A600 / Q600</li> <li>Short-circuit protection</li> <li>Ge: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), I</li> <li>A (415 V, 80 kA)</li> <li>with type of assignment 2 required</li> <li>gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88</li> </ul>		
<ul> <li>at 230 V rated value</li> <li>for three-phase AC motor</li> <li>at 200/208 V rated value</li> <li>bp</li> <li>at 220/230 V rated value</li> <li>bp</li> <li>at 460/480 V rated value</li> <li>bp</li> <li>at 460/480 V rated value</li> <li>bp</li> <li>at 575/600 V rated value</li> <li>bp</li> <li>contact rating of auxiliary contacts according to UL</li> <li>A600 / Q600</li> </ul> Short-circuit protection           Short-circuit protection           - with type of coordination 1 required           - with type of assignment 2 required           GG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88		2 hp
<ul> <li>for three-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>bp</li> <li>at 220/230 V rated value</li> <li>fhp</li> <li>at 460/480 V rated value</li> <li>fhp</li> <li>at 460/480 V rated value</li> <li>fhp</li> <li>at 575/600 V rated value</li> <li>20 hp</li> </ul> </li> <li>Contact rating of auxiliary contacts according to UL</li> <li>A600 / Q600</li> </ul> Short-circuit protection           Design of the fuse link         a GG: 100 A (690 V, 100 kA), aM: 50 A (690 V		
<ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 220/230 V rated value</li> <li>bp</li> <li>at 460/480 V rated value</li> <li>bp</li> <li>at 575/600 V rated value</li> <li>20 hp</li> <li>Contact rating of auxiliary contacts according to UL</li> <li>A600 / Q600</li> </ul> Short-circuit protection Design of the fuse link <ul> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), I</li> <li>A (415 V, 80 kA)</li> <li>with type of assignment 2 required</li> </ul>		
<ul> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>bp</li> <li>at 575/600 V rated value</li> <li>20 hp</li> <li>Contact rating of auxiliary contacts according to UL</li> <li>A600 / Q600</li> </ul> Short-circuit protection           Short-circuit protection           0           e for short-circuit protection of the main circuit           - with type of coordination 1 required           - with type of assignment 2 required           GG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88		5 hp
<ul> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>20 hp</li> <li>20 hp</li> <li>A600 / Q600</li> </ul> Short-circuit protection Design of the fuse link <ul> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>G: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), I</li> <li>A (415 V, 80 kA)</li> <li>with type of assignment 2 required</li> </ul>		
Contact rating of auxiliary contacts according to UL       A600 / Q600         Short-circuit protection       Gesign of the fuse link       Gesign of the fuse link         • for short-circuit protection of the main circuit		
Short-circuit protection         Design of the fuse link       • for short-circuit protection of the main circuit         — with type of coordination 1 required       gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), I         — with type of assignment 2 required       gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88		
Design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), I         A (415 V, 80 kA)         — with type of assignment 2 required         gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88		
<ul> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), I</li> <li>A (415 V, 80 kA)</li> <li>gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88</li> </ul>		
— with type of coordination 1 required       gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), I         A (415 V, 80 kA)         — with type of assignment 2 required         gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88	-	
A (415 V, 80 kA) — with type of assignment 2 required gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88		
	<ul> <li>— with type of coordination 1 required</li> </ul>	
(+ IJV, OUNA)	— with type of assignment 2 required	gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 80kA)
• for short-circuit protection of the auxiliary switch fuse gG: 10 A required		fuse gG: 10 A

Installation/ mounting/ dimensions	nstallation/ mounting/ dimensions	
Mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface	
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715	
<ul> <li>Side-by-side mounting</li> </ul>	Yes	
Height	85 mm	
Width	45 mm	
Depth	107 mm	
Required spacing		
<ul> <li>with side-by-side mounting</li> </ul>		
— forwards	10 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	0 mm	
<ul> <li>for grounded parts</li> </ul>		
— forwards	10 mm	
— upwards	10 mm	
— at the side	6 mm	
— downwards	10 mm	
• for live parts		
— forwards	10 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	6 mm	
Connections/Terminals		
Type of electrical connection		
<ul> <li>for main current circuit</li> </ul>	screw-type terminals	
<ul> <li>for auxiliary and control current circuit</li> </ul>	screw-type terminals	
Type of connectable conductor cross-sections		
<ul> <li>for main contacts</li> </ul>		
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)	
<ul> <li>— single or multi-stranded</li> </ul>	2x (1 2,5 mm²), 2x (2,5 10 mm²)	
— finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²	
<ul> <li>at AWG conductors for main contacts</li> </ul>	2x (16 12), 2x (14 8)	
Connectable conductor cross-section for main contacts		
• solid	1 10 mm²	
• stranded	1 10 mm²	
<ul> <li>finely stranded with core end processing</li> </ul>	1 10 mm²	

Connectable conductor cross-section for auxiliary	
contacts	
<ul> <li>single or multi-stranded</li> </ul>	0.5 2.5 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
Type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— single or multi-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)
<ul> <li>at AWG conductors for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross	
section	
<ul> <li>for main contacts</li> </ul>	16 8
<ul> <li>for auxiliary contacts</li> </ul>	20 14
Safety related data	
B10 value	
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	1 000 000
Proportion of dangerous failures	
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	73 %
Failure rate [FIT]	
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	100 FIT
Product function	
<ul> <li>Mirror contact acc. to IEC 60947-4-1</li> </ul>	Yes
T1 value for proof test interval or service life acc. to IEC 61508	20 у
Protection against electrical shock	finger-safe
Certificates/approvals	



## Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2026-1NF30

Cax online generator

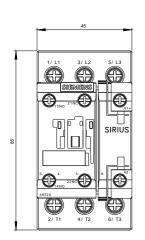
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2026-1NF30

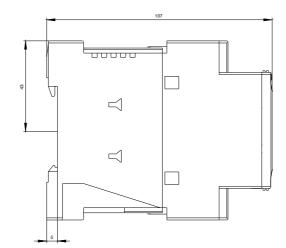
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1NF30

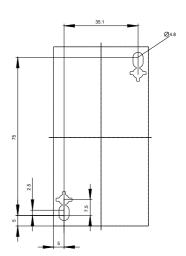
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2026-1NF30&lang=en

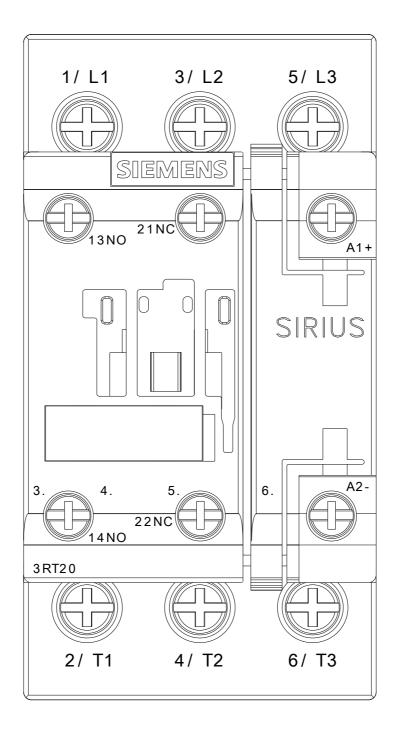
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1NF30/char

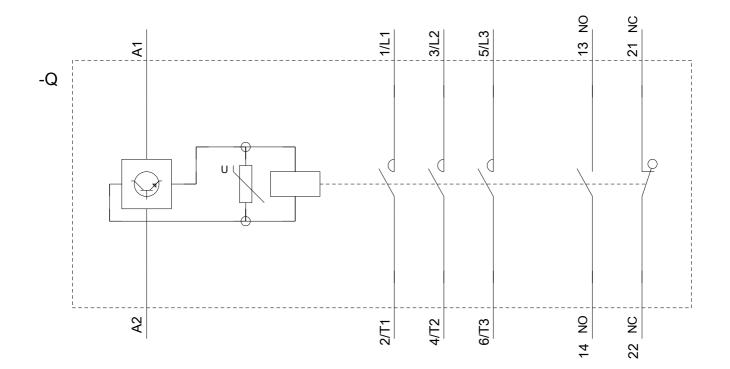
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-1NF30&objecttype=14&gridview=view1











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