## **SIEMENS**

Data sheet 3RT2026-1NF30

	power contactor, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 95-130 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	31112
size of contactor	\$0
product extension	30
function module for communication	No
auxiliary switch	Yes
power loss [W] for rated value of the current	165
at AC in hot operating state	5.7 W
at AC in not operating state     at AC in hot operating state per pole	1.9 W
without load current share typical	1.8 W
insulation voltage	1.0 VV
of main circuit with degree of pollution 3 rated value	690 V
	690 V
of auxiliary circuit with degree of pollution 3 rated value	090 V
surge voltage resistance  of main circuit rated value	6 kV
of main circuit rated value     of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
at AC	8,3g / 5 ms, 5,3g / 10 ms
• at DC	10g / 5 ms, 7,5g / 10 ms
	109 / 3 1118, 7,39 / 10 1118
shock resistance with sine pulse  • at AC	12 Fg / F mg 9 2g / 10 mg
	13,5g / 5 ms, 8,3g / 10 ms
• at DC	15g / 5 ms, 10g / 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)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during operation     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-3 rated value maximum     at AC-3e rated value maximum	690 V
operational current	000 V
at AC-1 at 400 V at ambient temperature 40 °C rated value     at AC-1	40 A
— up to 690 V at ambient temperature 40 °C rated	40 A

value	
<ul> <li>— up to 690 V at ambient temperature 60 °C rated value</li> </ul>	35 A
• at AC-3	
— at 400 V rated value	25 A
— at 400 V rated value  — at 500 V rated value	18 A
— at 690 V rated value	13 A
• at AC-3e	10 A
— at 400 V rated value	25 A
— at 400 V rated value  — 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
at AC-5a up to 690 V rated value	35.2 A
	20.7 A
<ul><li>at AC-5b up to 400 V rated value</li><li>at AC-6a</li></ul>	20.7 A
— up to 230 V for current peak value n=20 rated value	20.2 A
	20.2 A 20.2 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	20.2 A 20.2 A
up to 500 V for current peak value n=20 rated value      up to 690 V for current peak value n=20 rated value	20.2 A 12.9 A
up to 690 v for current peak value n=20 rated value     at AC-6a	12.0 A
up to 230 V for current peak value n=30 rated value	13.5 A
— up to 230 V for current peak value n=30 rated value  — up to 400 V for current peak value n=30 rated value	13.5 A
— up to 400 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value	13.5 A
— up to 690 V for current peak value n=30 rated value	13.5 A
minimum cross-section in main circuit at maximum AC-1 rated	10 mm <sup>2</sup>
value	10 111111
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	9 A
at 690 V rated value	9 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	20 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 60 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 60 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
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 60 V rated value	5 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
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> <li>— at 24 V rated value</li> </ul>	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
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 60 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-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
• at AC-3e	
— 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
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	8 kVA
• up to 400 V for current peak value n=20 rated value	13.9 kVA
up to 500 V for current peak value n=20 rated value	17.4 kVA
up to 690 V for current peak value n=20 rated value	15.4 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	5.3 kVA
• up to 400 V for current peak value n=30 rated value	9.3 kVA
• up to 500 V for current peak value n=30 rated value	11.6 kVA
• up to 690 V for current peak value n=30 rated value	15.5 kVA
short-time withstand current in cold operating state up to	
40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	375 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	300 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	210 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	144 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	118 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	1 500 1/h
• at DC	1 500 1/h
operating frequency	
at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
	100 1/11
	750 1/h
• at AC-3e maximum	750 1/h
at AC-3e maximum     at AC-4 maximum	750 1/h 250 1/h
at AC-3e maximum     at AC-4 maximum  Control circuit/ Control	250 1/h
at AC-3e maximum     at AC-4 maximum  Control circuit/ Control  type of voltage of the control supply voltage	
at AC-3e maximum     at AC-4 maximum  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC	250 1/h AC/DC
at AC-3e maximum     at AC-4 maximum  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC     at 50 Hz rated value	250 1/h  AC/DC  95 130 V
at AC-3e maximum  at AC-4 maximum  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  at 50 Hz rated value  at 60 Hz rated value	250 1/h AC/DC
at AC-3e maximum at AC-4 maximum  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC at 50 Hz rated value at 60 Hz rated value  control supply voltage at DC	250 1/h  AC/DC  95 130 V  95 130 V
at AC-3e maximum at AC-4 maximum  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC at 50 Hz rated value at 60 Hz rated value  control supply voltage at DC rated value	250 1/h  AC/DC  95 130 V
at AC-3e maximum at AC-4 maximum  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC at 50 Hz rated value at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of	250 1/h  AC/DC  95 130 V  95 130 V
at AC-3e maximum at AC-4 maximum  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC at 50 Hz rated value at 60 Hz rated value  control supply voltage at DC rated value	250 1/h  AC/DC  95 130 V  95 130 V

• full scale value or parating range factor control supply voltage rated value of magnet coll at AC at 50 htz		
### 10 11/2		1.3
ear 10 Hz		
design of the surge suppressor         with vertebra           muration of finash current peak         35 A           duration of finash current peak         0.33 A           locked-rotor current mean value         0.39 A           duration of locked-rotor current         180 ms           holding current mean value         19 mA           apparent plack-up power of magnet coil at AC         11 9 VA           at 80 Hz         180 Ms           inductive power factor with closing power of the coil         4 50 Hz           in at 50 Hz         0.98           a st 50 Hz         16 VA           a 180 Hz         16 VA           a 180 Hz         18 VA           inductive power factor with the holding power of the coil         4 KY           inductive power factor with the holding power of the coil         4 KY           inductive power factor with the holding power of magnet coil at DC         1.92 W           a 180 Hz         0.79           a 180 Hz         1.00           b at BO         50 .80 ms           a 1DC         50 .80 ms           a 1DC         30 .50 ms           a 2DC         30 .50 ms           a croup time         4 AC           a 1 SO V rade value         10 A <tr< td=""><td>● at 50 Hz</td><td>0.7 1.3</td></tr<>	● at 50 Hz	0.7 1.3
design of the surge suppressor         with vertebra           muration of finash current peak         35 A           duration of finash current peak         0.33 A           locked-rotor current mean value         0.39 A           duration of locked-rotor current         180 ms           holding current mean value         19 mA           apparent plack-up power of magnet coil at AC         11 9 VA           at 80 Hz         180 Ms           inductive power factor with closing power of the coil         4 50 Hz           in at 50 Hz         0.98           a st 50 Hz         16 VA           a 180 Hz         16 VA           a 180 Hz         18 VA           inductive power factor with the holding power of the coil         4 KY           inductive power factor with the holding power of the coil         4 KY           inductive power factor with the holding power of magnet coil at DC         1.92 W           a 180 Hz         0.79           a 180 Hz         1.00           b at BO         50 .80 ms           a 1DC         50 .80 ms           a 1DC         30 .50 ms           a 2DC         30 .50 ms           a croup time         4 AC           a 1 SO V rade value         10 A <tr< td=""><td></td><td></td></tr<>		
Mrush current peak   35 A   30 µs		
duration of inrush current peak   0.018   0.18		
locked-rotor current peak         0.19 A           duration of locked-rotor current         180 ms           holding current mean value         19 mA           a at 50 Hz         1.9 VA           a 4 50 Hz         12 VA           Inductive power factor with closing power of the coll         1.8 VA           a 4 50 Hz         0.98           a 150 Hz         1.6 VA           a 150 Hz         1.8 VA           a 150 Hz         1.8 VA           a 150 Hz         1.8 VA           a 150 Hz         0.79           a 150 Hz         0.74           a 150 Hz         0.74           a 150 Hz         0.79           a 150 Hz         0.74           closing power of magnet coll at DC         0.74           bolding power of magnet coll at DC         1.3 W           a 150 C         5080 ms	<u> </u>	
locked-votor current pack   0.19 A   180 ms	·	
duration of locked-rotor current   190 ms   19 mA		
Modding current mean value   19 mA   20 maparent pick-up power of magnet coil at AC   2 maximum of NC contacts for auxiliary contacts instantaneous of NC contacts for auxiliary contacts instantaneous operational current at AC-15 maximum of NC contacts for auxiliary contacts instantaneous operational current at AC-15 maximum of NC contacts for auxiliary contacts instantaneous of AC 16 maximum of NC contacts for auxiliary contacts instantaneous of AC-12 maximum of NC contacts for auxiliary contacts instantaneous of AC-12 maximum of NC contacts for auxiliary contacts instantaneous of AC-12 maximum of NC contacts for auxiliary contacts instantaneous of AC-12 maximum of NC contacts for auxiliary contacts instantaneous of AC-12 maximum of NC contacts for auxiliary contacts instantaneous of AC-12 maximum of AC-13 maximum of AC-13 maximum of AC-13 maximum of AC-14 maximum of AC-15 maximum of AC-15 maximum of AC-14 maximum of AC-15 m	·	
apparent pick-up power of magnet coil at AC		
* 150 Hz		19 IIIA
• al 60 Hz	-	44.0.1/A
Inductive power factor with closing power of the coil		
	****	12 VA
		0.00
a 150 Hz		
• at 50 Hz • at 60 Hz  Closing power of magnet coil at DC  10 Ly W holding power of magnet coil at DC  13 W  closing delay • at AC • at DC • at AC •		0.98
Inductive power factor with the holding power of the coil		4014
Inductive power factor with the holding power of the coil   0.79   0.79   0.79   0.74   0.74   0.75   0.7		
• at 50 Hz • ot 60 Hz • ot 60 Hz • ot 60 Hz • ot 60 Hz closing power of magnet coil at DC  toloing golary • at AC • at DC • opening delay • at AC • at DC • a		1.8 VA
• at 60 Hz   10.2 W   10.2 W   10.5		
closing power of magnet coil at DC		
holding power of magnet coil at DC         1.3 W           closing delay         50 80 ms           opening delay         61 AC         30 50 ms           • at DC         30 50 ms         60 80 ms           • at DC         30 50 ms         60 10 ms           control version of the switch operating mechanism         Standard A1 - A2           Auxiliary circuit         70 10 ms           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-12 maximum         10 A           operational current at AC-12 maximum         10 A           • at 230 V rated value         1 A           • at 650 V rated value         1 A           • at 84 V rated value         1 A           • at 84 V rated value         6 A           • at 125 V rated value         1 A           • at 120 V rated value         1 A           • at 120 V rated value         1 A           • at 24 V rat		
closing delay		
• at AC • at DC • at DC • at DC • at AC • at AC • at DC • at	holding power of magnet coil at DC	1.3 W
● at DC  opening delay  ● at AC  ● at DC  30 50 ms  arcing time  10 10 ms  Standard A1 - A2  Auxillary circuit  number of NC contacts for auxillary contacts instantaneous contact  number of NC contacts for auxillary contacts instantaneous contact  number of NC contacts for auxillary contacts instantaneous contact  number of NO contacts for auxillary contacts instantaneous contact  operational current at AC-12 maximum  10 A  operational current at AC-13 maximum  10 A  operational current at AC-14 maximum  10 A  at 400 V rated value  at 4500 V rated value  at 4500 V rated value  10 A  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 48 V rated value  at 48 V rated value  at 110 V rated value  at 110 V rated value  at 220 V rated value  at 24 V rated value  at 220 V rated value  at 220 V rated value  at 24 V rated value  at 25 V rated value  at 220 V rated value  at 24 V rated value  at 220 V rated value  at 34 W rated value  at 34 W rated value  at 34 W rated value  at 220 V rated value  at 24 V rated value  at 220 V rated value  at 34 W rated value  at 48 V rated value  at 48 V rated value  at 410 V rated value  at	closing delay	
oen ing delay         at AC         30 50 ms           at DC         30 50 ms           arcing time         10 10 ms           control version of the switch operating mechanism         Standard A1 - A2           Auxiliary circuit         10 ms           number of NC contacts for auxiliary contacts instantaneous contact         1           outcontact         10 A           operational current at AC-12 maximum         10 A           operational current at AC-15         10 A           at 230 V rated value         3 A           at 400 V rated value         2 A           at 500 V rated value         1 A           operational current at DC-12         1 A           at 480 V rated value         6 A           at 100 V rated value         6 A           at 480 V rated value         6 A           at 110 V rated value         3 A           at 125 V rated value         1 A           at 220 V rated value         2 A           at 220 V rated value         2 A           at 220 V rated value         1 A           at 220 V rated value         2 A           at 24 V rated value         2 A           at 48 V rated value         2 A           at 48 V rated value	• at AC	50 80 ms
	• at DC	50 80 ms
• at DC         30 50 ms           arcing time         10 10 ms           control version of the switch operating mechanism         Standard A1 - A2           Auxiliary circuit         10 ms           number of NC contacts for auxiliary contacts instantaneous contact         1           number of NO contacts for auxiliary contacts instantaneous contact         1           operational current at AC-15 maximum         10 A           operational current at AC-15         10 A           • at 230 V rated value         3 A           • at 500 V rated value         2 A           • at 500 V rated value         10 A           • at 48 V rated value         10 A           • at 48 V rated value         6 A           • at 48 V rated value         6 A           • at 110 V rated value         3 A           • at 125 V rated value         2 A           • at 125 V rated value         1 A           • at 220 V rated value         1 A           • at 48 V rated value         2 A           • at 48 V rated value         2 A           • at 48 V rated value         1 A           • at 48 V rated value         2 A           • at 48 V rated value         2 A           • at 48 V rated value         2 A	opening delay	
arcing time         10 10 ms           control version of the switch operating mechanism         Standard A1 - A2           Auxiliary circuit         Total contacts           number of NC contacts for auxiliary contacts instantaneous contact         1           outcomber of NC contacts for auxiliary contacts instantaneous contact         1           operational current at AC-12 maximum         10 A           operational current at AC-15         10 A           e at 230 V rated value         3 A           e at 400 V rated value         2 A           e at 500 V rated value         1 A           operational current at DC-12         10 A           e at 48 V rated value         6 A           e at 48 V rated value         6 A           e at 10 V rated value         6 A           e at 110 V rated value         3 A           e at 22 V rated value         1 A           e at 22 V rated value         1 A           e at 600 V rated value         2 A           e at 600 V rated value         2 A           e at 600 V rated value         1 A           e at 24 V rated value         10 A           e at 48 V rated value         2 A           e at 48 V rated value         2 A           e at 60 V rated value	• at AC	30 50 ms
Control version of the switch operating mechanism         Standard A1 - A2           Auxiliary circuit         Improvement 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         Image: Contact of the c	• at DC	30 50 ms
Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value • at 120 V rated value • at 100 V rated value • at 100 V rated value • at 100 V rated value • at 125 V rated value • at 110 V rated value • at 125 V rated value • at 120 V rated value • at 100 V rated value	arcing time	10 10 ms
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         10 A           • at 230 V rated value         3 A           • at 500 V rated value         2 A           • at 690 V rated value         1 A           operational current at DC-12         1 A           • at 24 V rated value         6 A           • at 48 V rated value         6 A           • at 110 V rated value         3 A           • at 250 V rated value         1 A           • at 220 V rated value         2 A           • at 220 V rated value         1 A           • at 220 V rated value         0.15 A           operational current at DC-13         10 A           • at 24 V rated value         2 A           • at 24 V rated value         2 A           • at 48 V rated value         2 A           • at 24 V rated value         2 A           • at 10 V rated value         2 A           • at 25 V rated value         2 A           • at 10 V rated value         2 A           • at 10 V rated value         3 A	control version of the switch operating mechanism	Standard A1 - A2
contact         number of NO contacts for auxiliary contacts instantaneous contact           operational current at AC-12 maximum         10 A           Operational current at AC-15         at 230 V rated value         10 A           a at 400 V rated value         3 A           at 500 V rated value         1 A           operational current at DC-12         1 A           at 24 V rated value         6 A           at 48 V rated value         6 A           at 10 V rated value         6 A           at 110 V rated value         2 A           at 220 V rated value         1 A           at 220 V rated value         1 A           at 600 V rated value         1 A           at 600 V rated value         0.15 A           Operational current at DC-13         1 A           at 24 V rated value         2 A           at 24 V rated value         2 A           at 600 V rated value         2 A           at 110 V rated value         3 A           at 125 V rated value         3 A           at 125 V rated value         3 A           at 220 V rated value<	Auxiliary circuit	
contact           operational current at AC-12 maximum         10 A           operational current at AC-15         10 A           • at 230 V rated value         10 A           • at 400 V rated value         2 A           • at 690 V rated value         1 A           operational current at DC-12         10 A           • at 24 V rated value         6 A           • at 48 V rated value         6 A           • at 110 V rated value         3 A           • at 110 V rated value         2 A           • at 220 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         10 A           • at 24 V rated value         2 A           • at 48 V rated value         2 A           • at 60 V rated value         2 A           • at 110 V rated value         1 A           • at 27 V rated value         2 A           • at 27 V rated value         2 A           • at 29 V rated value         1 A           • at 20 V rated value         0.9 A           • at 220 V rated value         0.9 A           • at 200 V rated value         0.9 A           • at 200 V rated value	· · · ·	1
operational current at AC-15	•	1
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         6 A           • at 48 V rated value         6 A           • at 60 V rated value         3 A           • at 110 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         2 A           • at 48 V rated value         2 A           • at 60 V rated value         2 A           • at 60 V rated value         1 A           • at 110 V rated value         2 A           • at 24 V rated value         2 A           • at 25 V rated value         2 A           • at 25 V rated value         3 A     <	operational current at AC-12 maximum	10 A
<ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>3 A</li> <li>at 500 V rated value</li> <li>2 A</li> <li>at 690 V rated value</li> <li>1 A</li> </ul> Operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>6 A</li> <li>at 48 V rated value</li> <li>6 A</li> <li>at 110 V rated value</li> <li>at 25 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 10 A</li> <li>at 48 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 125 V rated value</li> <li>at 125 V rated value</li> <li>at 20 V rated value</li> <li>at 600 V rated value</li> <li>at 70 A</li> <li>at 70 A</li> <li>at 70 A</li> <li>at 70 A<td>· · · · · · · · · · · · · · · · · · ·</td><td></td></li></ul>	· · · · · · · · · · · · · · · · · · ·	
<ul> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>2 A</li> <li>at 690 V rated value</li> <li>1 A</li> </ul> Operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>6 A</li> <li>at 60 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 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 10 A</li> <li>at 48 V rated value</li> <li>at 10 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 125 V rated value</li> <li>at 220 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> </ul>	-	10 A
<ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>1 A</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>6 A</li> <li>at 60 V rated value</li> <li>6 A</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>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 100 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 120 V rated</li></ul>		
• at 690 V rated value 10 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 3 A • at 110 V rated value 2 A • at 220 V rated value 1 A • at 600 V rated value 1 A • at 600 V rated value 2 A • at 220 V rated value 1 A • at 600 V rated value 2 A • at 24 V rated value 10.15 A  operational current at DC-13 • at 24 V rated value 2 A • at 80 V rated value 2 A • at 110 V rated value 2 A • at 110 V rated value 2 A • at 110 V rated value 2 A • at 125 V rated value 3 A • at 220 V rated value 4 A • at 125 V rated value 5 A • at 125 V rated value 6 A • at 125 V rated value 7 A • at 125 V rated value 9 A • at 125 V rated value 10.9 A • at 125 V rated value 10.3 A • at 600 V rated value 10.3 A • at 600 V rated value 10.3 A • at 600 V rated value 10.3 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       3 A         • at 110 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		
<ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 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 600 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 24 V rated value</li> <li>at 25 V rated value</li> <li>at 27 V rated value</li> <li>at 28 V rated value</li> <li>at 29 V rated value</li> <li>at 20 V rated value</li> <li>at 3 A</li> <li>at 600 V rated value</li> </ul>		
<ul> <li>at 48 V rated value</li> <li>at 60 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 600 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 10 A</li> <li>at 48 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 125 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>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul>	•	10 A
<ul> <li>at 60 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 600 V rated value</li> <li>ot 600 V rated value</li> <li>operational current at DC-13</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <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 125 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul>		
<ul> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>operational current at DC-13</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 120 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul>		
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>operational current at DC-13</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul>		
<ul> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>0.15 A</li> </ul> Operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 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 600 V rated value</li> <li>at 125 V rated value</li> <li>at 200 V rated value</li> <li>at 600 V rated value</li> </ul>		
<ul> <li>at 600 V rated value</li> <li>operational current at DC-13</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 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 600 V rated value</li> <li>0.3 A</li> <li>at 600 V rated value</li> </ul>		
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		
<ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 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 600 V rated value</li> </ul>		0.10 A
<ul> <li>at 48 V rated value</li> <li>at 60 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 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul>	operational current at OC-13	
<ul> <li>at 60 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 600 V rated value</li> <li>1 A</li> <li>2 A</li> <li>3 A</li> <li>4 600 V rated value</li> <li>1 A</li> <li>2 A</li> <li>3 A</li> <li>4 600 V rated value</li> <li>1 A</li> </ul>	•	40.0
<ul> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>1 A</li> <li>0.9 A</li> <li>0.3 A</li> <li>1 A</li> </ul>	• at 24 V rated value	
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>0.3 A</li> <li>1 A</li> </ul>	<ul><li>at 24 V rated value</li><li>at 48 V rated value</li></ul>	2 A
<ul> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>0.3 A</li> <li>0.1 A</li> </ul>	<ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> </ul>	2 A 2 A
• at 600 V rated value 0.1 A	<ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul>	2 A 2 A 1 A
	<ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul>	2 A 2 A 1 A 0.9 A
contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA)	<ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> </ul>	2 A 2 A 1 A 0.9 A
	<ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 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> </ul>	2 A 2 A 1 A 0.9 A 0.3 A

UL/CSA ratings	
full-load current (FLA) for 3-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	
— at 110/120 V rated value	2 hp
— at 230 V rated value	3 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	5 hp
<ul> <li>at 220/230 V rated value</li> </ul>	7.5 hp
<ul> <li>— at 460/480 V rated value</li> </ul>	15 hp
— at 575/600 V rated value	20 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA)
— 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 required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
	backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
• side-by-side mounting	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
— upwards — downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
for main current circuit     for auxiliary and control circuit	screw-type terminals
for main current circuit	
for main current circuit     for auxiliary and control circuit	screw-type terminals
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> </ul>	screw-type terminals Screw-type terminals
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul>	screw-type terminals Screw-type terminals
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	screw-type terminals Screw-type terminals Screw-type terminals
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	screw-type terminals Screw-type terminals Screw-type terminals  2x (1 2.5 mm²), 2x (2.5 10 mm²)
for main current circuit     for auxiliary and control circuit     at contactor for auxiliary contacts     of magnet coil  type of connectable conductor cross-sections for main contacts     solid     solid or stranded	screw-type terminals Screw-type terminals Screw-type terminals  2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 10 mm²)
for main current circuit     for auxiliary and control circuit     at contactor for auxiliary contacts     of magnet coil  type of connectable conductor cross-sections for main contacts     solid     solid or stranded     finely stranded with core end processing	screw-type terminals Screw-type terminals Screw-type terminals  2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 10 mm²)
for main current circuit     for auxiliary and control circuit     at contactor for auxiliary contacts     of magnet coil  type of connectable conductor cross-sections for main contacts     solid     solid or stranded     finely stranded with core end processing  connectable conductor cross-section for main contacts	screw-type terminals Screw-type terminals Screw-type terminals  2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
for main current circuit     for auxiliary and control circuit     at contactor for auxiliary contacts     of magnet coil  type of connectable conductor cross-sections for main contacts     solid     solid or stranded     finely stranded with core end processing  connectable conductor cross-section for main contacts     solid     stranded	screw-type terminals Screw-type terminals  2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 10 mm²) 1 10 mm² 1 10 mm² 1 10 mm²
for main current circuit     for auxiliary and control circuit     at contactor for auxiliary contacts     of magnet coil  type of connectable conductor cross-sections for main contacts     solid     solid or stranded     finely stranded with core end processing  connectable conductor cross-section for main contacts     solid	screw-type terminals Screw-type terminals Screw-type terminals  2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²  1 10 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>	
<ul><li>— solid or stranded</li></ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>at AWG cables 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	
product function	
mirror contact according to IEC 60047 4 1	Vos

Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
B10 value with high demand rate according to SN 31920	450 000
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	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>



Functional

EMC Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Test Certificates Marine / Shipping

**Miscellaneous** 











Marine / Shipping other Railway Dangerous Good



Confirmation



Confirmation

Vibration and Shock

**Transport Information** 

## Further information

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

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$ 

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=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=er

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1NF30/char

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

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