## **SIEMENS**

Data sheet 3RT1276-6AP36



Vacuum contactor, AC-3 500 A, 250 kW / 400 V AC (50-60 Hz) / DC operation 220-240 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S12 Busbar connections Drive: conventional

product brand name	SIRIUS
product designation	Vacuum contactor
product type designation	3RT12
General technical data	
size of contactor	S12
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	96 W
• per pole	32 W
power loss [W] for rated value of the current without load current share typical	10 W
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 10 ms
mechanical service life (switching cycles)	
of contactor typical	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
of the contactor with added auxiliary switch block typical	10 000 000
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.05.2012 00:00:00
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
relative humidity minimum	10 %
relative humidity at 55 °C acc. to IEC 60068-2-30	95 %

Main circuit  number of poles for main current circuit number of NO contacts for main contacts operating voltage at AC-3 rated value maximum  1 000 V  operational current  • at AC-1 at 400 V at ambient temperature 40 °C rated value  • at AC-1  — up to 690 V at ambient temperature 60 °C rated value  — up to 1000 V at ambient temperature 40 °C rated value  — up to 1000 V at ambient temperature 40 °C rated value  — up to 1000 V at ambient temperature 60 °C rated value  — up to 1000 V at ambient temperature 40 °C rated value  — up to 1000 V at ambient temperature 40 °C rated value  — up to 1000 V at ambient temperature 40 °C rated value  — at 400 V rated value  • at AC-3  — at 400 V rated value  — at 500 V rated value  — at 500 V rated value  — at 690 V rated value  • at AC-6a  • at AC-6a  • at AC-6a  • up to 230 V for current peak value n=20 rated value  — up to 400 V for current peak value n=20 rated value  — up to 500 V for current peak value n=20 rated value  — up to 500 V for current peak value n=20 rated value  — up to 500 V for current peak value n=20 rated value  — up to 500 V for current peak value n=20 rated value  — up to 400 V for current peak value n=20 rated value  — up to 500 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V fo	
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<ul> <li>— at 1000 V rated value</li> <li>● at AC-4 at 400 V rated value</li> <li>● at AC-6a</li> <li>— up to 230 V for current peak value n=20 rated value</li> <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> <li>— up to 690 V for current peak value n=20 rated value</li> <li>— up to 1000 V for current peak value n=20 rated value</li> <li>— up to 1000 V for current peak value n=20 rated value</li> <li>— up to 230 V for current peak value n=30 rated value</li> <li>— up to 400 V for current peak value n=30 rated value</li> <li>— up to 500 V for current peak value n=30 rated value</li> <li>— up to 690 V for current peak value n=30 rated value</li> <li>— up to 690 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak</li></ul>	
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at AC-6a     — up to 230 V for current peak value n=20 rated value     — up to 400 V for current peak value n=20 rated value     — up to 500 V for current peak value n=20 rated value     — up to 690 V for current peak value n=20 rated value     — up to 1000 V for current peak value n=20 rated value     — up to 1000 V for current peak value n=20 rated value     — up to 230 V for current peak value n=30 rated value     — up to 400 V for current peak value n=30 rated value     — up to 500 V for current peak value n=30 rated value     — up to 690 V for current peak value n=30 rated value     — up to 690 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value	
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value — up to 500 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value — up to 1000 V for current peak value n=20 rated value — up to 1000 V for current peak value n=20 rated value  • at AC-6a — up to 230 V for current peak value n=30 rated value — up to 400 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value  minimum cross-section in main circuit at maximum AC-1 rated value  operational current for approx. 200000 operating	
value  — up to 690 V for current peak value n=20 rated value  — up to 1000 V for current peak value n=20 rated value  • at AC-6a  — up to 230 V for current peak value n=30 rated value  — up to 400 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value  — up to 690 V for current peak value n=30 rated value  — up to 690 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 690 V for current peak value n=30 rated value  — up to 690 V for current peak value n=30 rated value  — up to 690 V for current peak value n=30 rated value  — up to 690 V for current peak value n=30 rated value  — up to 690 V for current peak value n=30 rated value  — up to 690 V for current peak value n=30 rated value	
value  — up to 1000 V for current peak value n=20 rated value  ■ at AC-6a  — up to 230 V for current peak value n=30 rated value  — up to 400 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value  — up to 690 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value	
value      • at AC-6a      — up to 230 V for current peak value n=30 rated value      — up to 400 V for current peak value n=30 rated value      — up to 500 V for current peak value n=30 rated value      — up to 690 V for current peak value n=30 rated value      — up to 1000 V for current peak value n=30 rated value      — up to 1000 V for current peak value n=30 rated value      — up to 1000 V for current peak value n=30 rated value      — up to 1000 V for current peak value n=30 rated value      — up to 1000 V for current peak value n=30 rated value      — up to 1000 V for current peak value n=30 rated value      — up to 1000 V for current peak value n=30 rated value      — up to 1000 V for current peak value n=30 rated value      — up to 1000 V for current peak value n=30 rated value      — up to 1000 V for current peak value n=30 rated value      — up to 1000 V for current peak value n=30 rated value      — up to 1000 V for current peak value n=30 rated value      — up to 1000 V for current peak value n=30 rated value      — up to 1000 V for current peak value n=30 rated value      — up to 1000 V for current peak value n=30 rated value      — up to 1000 V for current peak value n=30 rated value	
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> <li>— up to 400 V for current peak value n=30 rated value</li> <li>— up to 500 V for current peak value n=30 rated value</li> <li>— up to 690 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value<td></td></li></ul>	
value  — up to 500 V for current peak value n=30 rated value  — up to 690 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  minimum cross-section in main circuit at maximum AC-1 rated value  operational current for approx. 200000 operating	
value  — up to 690 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  minimum cross-section in main circuit at maximum AC-1 rated value  operational current for approx. 200000 operating	
value  — up to 1000 V for current peak value n=30 rated value  minimum cross-section in main circuit at maximum AC-1 rated value  operational current for approx. 200000 operating	
value minimum cross-section in main circuit at maximum AC-1 rated value  operational current for approx. 200000 operating	
rated value operational current for approx. 200000 operating	
at 400 V rated value     215 A	
• at 690 V rated value 215 A	
operating power	
• at AC-3	
— at 230 V rated value 160 kW	
— at 400 V rated value 250 kW	
— at 500 V rated value 355 kW	
— at 690 V rated value 500 kW	
— at 1000 V rated value 710 kW	
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value 122 kW	
• at 690 V rated value 212 kW	
operating apparent power at AC-6a	

• up to 230 V for current peak value n=20 rated value	170 000 kV·A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	300 000 V·A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	380 000 V·A
• up to 690 V for current peak value n=20 rated value	520 000 V·A
• up to 1000 V for current peak value n=20 rated	760 000 V·A
value	700 000 77
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	110 000 V·A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	200 000 V·A
• up to 500 V for current peak value n=30 rated value	250 000 V·A
• up to 690 V for current peak value n=30 rated value	350 000 V·A
• up to 1000 V for current peak value n=30 rated	500 000 V·A
value	000 000 V /1
no-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency	
• at AC-1 maximum	700 1/h
• at AC-2 maximum	250 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	NOIDO
at 50 Hz rated value	220 240 V
at 60 Hz rated value	220 240 V
control supply voltage at DC	220 240 V
• rated value	220 240 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	
specialing range ractor control supply voltage rated	
value of magnet coil at AC	
	0.8 1.1
value of magnet coil at AC	0.8 1.1 0.8 1.1
value of magnet coil at AC	
value of magnet coil at AC  • at 50 Hz  • at 60 Hz	0.8 1.1
value of magnet coil at AC  • at 50 Hz  • at 60 Hz  design of the surge suppressor	0.8 1.1
value of magnet coil at AC  • at 50 Hz  • at 60 Hz  design of the surge suppressor  apparent pick-up power of magnet coil at AC	0.8 1.1 with varistor
value of magnet coil at AC  • at 50 Hz  • at 60 Hz  design of the surge suppressor  apparent pick-up power of magnet coil at AC  • at 50 Hz	0.8 1.1 with varistor  830 V·A
value of magnet coil at AC  • at 50 Hz  • at 60 Hz  design of the surge suppressor  apparent pick-up power of magnet coil at AC  • at 50 Hz  • at 60 Hz	0.8 1.1 with varistor  830 V·A
value of magnet coil at AC  • at 50 Hz  • at 60 Hz  design of the surge suppressor  apparent pick-up power of magnet coil at AC  • at 50 Hz  • at 60 Hz  inductive power factor with closing power of the coil  • at 50 Hz  • at 60 Hz	0.8 1.1 with varistor  830 V·A 830 V·A
value of magnet coil at AC  • at 50 Hz  • at 60 Hz  design of the surge suppressor  apparent pick-up power of magnet coil at AC  • at 50 Hz  • at 60 Hz  inductive power factor with closing power of the coil  • at 50 Hz	0.8 1.1 with varistor  830 V·A 830 V·A
value of magnet coil at AC  • at 50 Hz  • at 60 Hz  design of the surge suppressor  apparent pick-up power of magnet coil at AC  • at 50 Hz  • at 60 Hz  inductive power factor with closing power of the coil  • at 50 Hz  • at 60 Hz	0.8 1.1 with varistor  830 V·A 830 V·A
value of magnet coil at AC  • at 50 Hz  • at 60 Hz  design of the surge suppressor  apparent pick-up power of magnet coil at AC  • at 50 Hz  • at 60 Hz  inductive power factor with closing power of the coil  • at 50 Hz  • at 60 Hz  apparent holding power of magnet coil at AC	0.8 1.1 with varistor  830 V·A 830 V·A  0.9 0.9
value of magnet coil at AC  • at 50 Hz • at 60 Hz  design of the surge suppressor  apparent pick-up power of magnet coil at AC  • at 50 Hz • at 60 Hz  inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz  apparent holding power of magnet coil at AC  • at 50 Hz • at 60 Hz  inductive power factor with the holding power of the	0.8 1.1 with varistor  830 V·A 830 V·A  0.9 0.9
value of magnet coil at AC  • at 50 Hz • at 60 Hz  design of the surge suppressor  apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz  inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz  apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz  inductive power factor with the holding power of the coil	0.8 1.1 with varistor  830 V·A 830 V·A  0.9 0.9  9.2 V·A 9.2 V·A
value of magnet coil at AC  • at 50 Hz • at 60 Hz  design of the surge suppressor  apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz  inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz  apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz  inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz	0.8 1.1 with varistor  830 V·A 830 V·A  0.9 0.9  9.2 V·A 9.2 V·A
value of magnet coil at AC  • at 50 Hz • at 60 Hz  design of the surge suppressor  apparent pick-up power of magnet coil at AC  • at 50 Hz • at 60 Hz  inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz  apparent holding power of magnet coil at AC  • at 50 Hz • at 60 Hz  inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz  inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz	0.8 1.1 with varistor  830 V·A 830 V·A  0.9 0.9 9.2 V·A 9.2 V·A  0.9 0.9
value of magnet coil at AC  • at 50 Hz • at 60 Hz  design of the surge suppressor  apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz  inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz  apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz  inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz  closing power of magnet coil at DC	0.8 1.1 with varistor  830 V·A 830 V·A  0.9 0.9 9.2 V·A 9.2 V·A  0.9 9.9 V·A
value of magnet coil at AC  • at 50 Hz • at 60 Hz  design of the surge suppressor  apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz  inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz  apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz  inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz  inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC	0.8 1.1 with varistor  830 V·A 830 V·A  0.9 0.9 9.2 V·A 9.2 V·A  0.9 0.9
value of magnet coil at AC  • at 50 Hz • at 60 Hz  design of the surge suppressor  apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz  inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz  apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz  inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz  inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay	0.8 1.1 with varistor  830 V·A 830 V·A  0.9 0.9  9.2 V·A 9.2 V·A  0.9 0.9  9.09  0.9  0.9
value of magnet coil at AC  • at 50 Hz • at 60 Hz  design of the surge suppressor  apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz  inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz  apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz  inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz  inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay • at AC	0.8 1.1 with varistor  830 V·A 830 V·A  0.9 0.9  9.2 V·A 9.2 V·A  0.9  0.9  920 W 10 W  45 100 ms
value of magnet coil at AC  • at 50 Hz • at 60 Hz  design of the surge suppressor  apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz  inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz  apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz  inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz  inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay • at AC • at DC	0.8 1.1 with varistor  830 V·A 830 V·A  0.9 0.9  9.2 V·A 9.2 V·A  0.9 0.9  9.09  0.9  0.9
value of magnet coil at AC  • at 50 Hz • at 60 Hz  design of the surge suppressor  apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz  inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz  apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz  inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay • at AC • at DC  opening delay	0.8 1.1 with varistor  830 V·A 830 V·A  0.9 0.9  9.2 V·A 9.2 V·A  0.9  0.9  10 W  45 100 ms 45 100 ms
value of magnet coil at AC  • at 50 Hz • at 60 Hz  design of the surge suppressor  apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz  inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz  apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz  inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz  inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay • at AC • at DC  opening delay • at AC	0.8 1.1 with varistor  830 V·A 830 V·A  0.9 0.9  9.2 V·A 9.2 V·A  0.9 9.0 W  10 W  45 100 ms 45 100 ms
value of magnet coil at AC  • at 50 Hz • at 60 Hz  design of the surge suppressor  apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz  inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz  apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz  inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay • at AC • at DC  opening delay	0.8 1.1 with varistor  830 V·A 830 V·A  0.9 0.9  9.2 V·A 9.2 V·A  0.9  0.9  10 W  45 100 ms 45 100 ms

control version of the switch operating mechanism	Standard A1 - A2			
Auxiliary circuit				
number of NC contacts for auxiliary contacts instantaneous contact	2			
number of NO contacts for auxiliary contacts instantaneous contact	2			
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				
<ul> <li>at 24 V rated value</li> </ul>	10 A			
<ul> <li>at 48 V rated value</li> </ul>	6 A			
<ul> <li>at 60 V rated value</li> </ul>	6 A			
<ul> <li>at 110 V rated value</li> </ul>	3 A			
<ul> <li>at 125 V rated value</li> </ul>	2 A			
<ul> <li>at 220 V rated value</li> </ul>	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			
<ul> <li>at 60 V rated value</li> </ul>	2 A			
<ul> <li>at 110 V rated value</li> </ul>	1 A			
<ul> <li>at 125 V rated value</li> </ul>	0.9 A			
at 220 V rated value	0.3 A			
at 600 V rated value	0.1 A			
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
at 480 V rated value	477 A			
at 600 V rated value	472 A			
yielded mechanical performance [hp]				
<ul> <li>for 3-phase AC motor</li> </ul>				
— at 200/208 V rated value	150 hp			
— at 220/230 V rated value	200 hp			
— at 460/480 V rated value	400 hp			
— at 575/600 V rated value	500 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: 800 A (690 V, 100 kA)			
— with type of assignment 2 required	gG: 800 A (690 V, 50 kA), aM: 630 A (690 V, 50 kA), BS88: 800 A (415 V, 50 kA)			
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)			
Installation/ mounting/ dimensions				
mounting position	+/-22,5° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface			
fastening method	screw fixing			
side-by-side mounting	Yes			
height	214 mm			
width	160 mm			
depth	225 mm			
required spacing				

famounda	00				
— forwards	20 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	0 mm				
<ul> <li>for grounded parts</li> </ul>					
— forwards	20 mm				
— upwards	10 mm				
— at the side	10 mm				
— downwards	10 mm				
• for live parts					
— forwards	20 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	10 mm				
Connections/ Terminals	10 111111	_	_		
	25				
width of connection bar thickness of connection bar	25 mm				
	6 mm				
diameter of holes	11 mm				
number of holes	1				
type of electrical connection					
for main current circuit	Connection bar				
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals				
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals				
of magnet coil	Screw-type terminals				
type of connectable conductor cross-sections					
at AWG cables for main contacts	2/0 500 kcmil				
connectable conductor cross-section for main contacts					
• stranded	70 240 mm²				
connectable conductor cross-section for auxiliary contacts					
<ul> <li>solid or stranded</li> </ul>	0.5 4 mm²				
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>				
type of connectable conductor cross-sections					
for auxiliary contacts					
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)				
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)				
finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12				
AWG number as coded connectable conductor cross section	ZX (20 10), ZX (10 14),	17.12			
for auxiliary contacts	18 14				
Safety related data					
product function mirror contact acc. to IEC 60947-4-1	Ves				
product function positively driven operation acc. to IEC	Yes				
60947-5-1	No				
protection class IP on the front acc. to IEC 60529	IP00; IP20 with box terminal		4		
touch protection on the front acc. to IEC 60529	finger-safe, for vertical conta	ict from the front with b	ox terminal/cover		
suitability for use					
safety-related switching OFF	Yes				
Certificates/ approvals					
General Product Approval		EMC	Functional Safety/Safety of Machinery		











Type Examination Certificate **Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping



UK Declaration of Conformity

Type Test Certificates/Test Report

Special Test Certificate





other Railway

<u>Confirmation</u> <u>Miscellaneous</u> <u>Confirmation</u> <u>Special Test Certificate</u>

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1276-6AP36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1276-6AP36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1276-6AP36

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

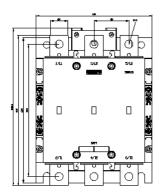
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1276-6AP36&lang=en

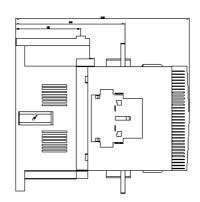
Characteristic: Tripping characteristics, I2t, Let-through current

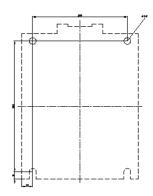
https://support.industry.siemens.com/cs/ww/en/ps/3RT1276-6AP36/char

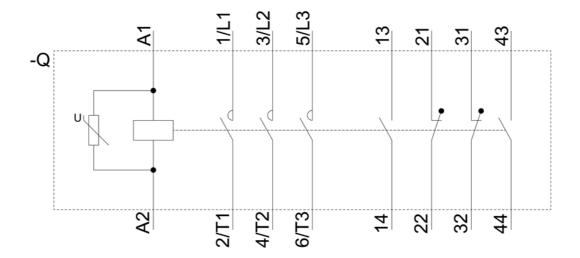
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1276-6AP36&objecttype=14&gridview=view1









last modified: 7/22/2021 🖸