## SIEMENS

## **Product data sheet**

## 3RT2016-2AB02-ZW97



CONTACTOR, AC-3, 4KW/400V, 1NC, AC 24V, 50/60 HZ, 3-POLE, SZ S00 SPRING-LOADED TERMINAL MULTI-UNIT PACKAGING PACKAGE = 32 UNITS

General technical data:		
product brand name		SIRIUS
Size of the contactor		S00
Product extension / auxiliary switch		Yes
Product extension / function module for communication		No
Protection class IP / on the front		IP20
Protection against electrical shock	_	finger-safe
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
during storage	°C	-55 +80
during operating	°C	-25 +60
Shock resistance		
• at rectangular impulse		
• at AC		6,7g / 5 ms, 4,2g / 10 ms
• at sine pulse		
• at AC		10,5g / 5 ms, 6,6g / 10 ms
Impulse voltage resistance / rated value	kV	6
Insulation voltage / rated value	V	690

Maximum permissible voltage for protective separation /	V	400
between coil and main contacts / in accordance with EN 60947-1		
Mechanical operating cycles as operating time		
of the contactor / typical		30,000,000
<ul> <li>of the contactor with added auxiliary switch block / typical</li> </ul>		10,000,000
<ul> <li>of the contactor with added electronics-compatible auxiliary switch block / typical</li> </ul>		5,000,000
Main circuit:		
Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts	-	3
Operating current / at AC-1 / at 400 V	-	
• at 40 °C ambient temperature / rated value	А	22
• at 60 °C ambient temperature / rated value	А	20
Connectable conductor cross-section / in main circuit	-	
• at AC-1		
• at 40 °C / minimum permissible	m²	4
• at 60 °C / minimum permissible	m²	2.5
Operational current		
• at AC-2 / at 400 V / rated value	А	9
• at AC-3		
• at 400 V / rated value	А	9
• at 500 V / rated value	А	7.7
• at 690 V / rated value	А	6.7
• at AC-4 / at 400 V / rated value	А	8.5
Operational current		
• with 1 current path / at DC-1		
• at 24 V / rated value	А	20
• at 110 V / rated value	А	2.1
• at 220 V / rated value	А	0.8
• at 440 V / rated value	А	0.6
• at 600 V / rated value	А	0.6
<ul> <li>with 2 current paths in series / at DC-1</li> </ul>		
• at 24 V / rated value	А	20
• at 110 V / rated value	А	12
• at 220 V / rated value	А	1.6
• at 440 V / rated value	А	0.8
• at 600 V / rated value	А	0.7
<ul> <li>with 3 current paths in series / at DC-1</li> </ul>		
• at 24 V / rated value	А	20
• at 110 V / rated value	А	20

• al 220 V/ rated value       A       20         • al 400 V/ rated value       A       1.3         • at 600 V/ rated value       A       1         • with 1 current path / at DC-3 / at DC-5       A       20         • at 110 V/ rated value       A       0.1         • with 2 current paths in series / at DC-3 / at DC-5       A       20         • at 110 V/ rated value       A       0.35         • with 3 current paths in series / at DC-3 / at DC-5       A       20         • at 110 V/ rated value       A       0.35         • with 3 current paths in series / at DC-3 / at DC-5       F       F         • at 24 V/ rated value       A       20         • at 110 V/ rated value       A       20         • at 24 V/ rated value       A       20         • at 24 V/ rated value       A       20         • at 40 V/ rated value       A       20         • at 400 V/ rated value       KW       75         • at 400 V/ rated value       KW       10         • at 400 V/ rated value       KW			
• at 600 V / rated valueA1Operational currentA0• with 1 current path / at DC-3 / at DC-5A0• at 14 V / rated valueA0• with 2 current paths in series / at DC-3 / at DC-5A0• at 24 V / rated valueA0• with 3 current paths in series / at DC-3 / at DC-5-• with 3 current paths in series / at DC-3 / at DC-5-• with 3 current paths in series / at DC-3 / at DC-5A20• with 3 current paths in series / at DC-3 / at DC-5• at 240 V / rated valueA20• with 3 current paths in series / at DC-3 / at DC-5• at 220 V / rated valueA20• at 220 V / rated valueA20• at 220 V / rated valueA20• at 230 V / rated valueA20• at 320 V / rated valueKW7.5• at AC-1• at 320 V / rated valueKW13• at 320 V / rated valueKW22• at AC-2/ at 400 V / rated valueKW22• at AC-3KW4• at AC-3KW4• at 320 V / rated valueKW5.5• at AC-1KW5.5• at AC-1KW5.5• at AC-1KW4• at AC-3 / at 400 V / rated valueKW6.5• at AC-1KW10,000• at AC-1KW10,000• at AC-1KW10,000• at AC-1	• at 220 V / rated value	А	20
Operational current • with 1 current path / at DC-3 / at DC-5 • at 24 V / rated value • at 110 V / rated value • at 110 V / rated value • ut at 24 v / rated value • at at 20 • at 110 V / rated value • at at 20 • at 110 V / rated value • at at 20 • at 110 V / rated value • at 24 V / rated value • at 20 • at 24 V / rated value • at 25 V / rated value • at 20 V / rated value • at 300 V / rated value	• at 440 V / rated value	А	1.3
• with 1 current path / at DC-3 / at DC-5         A         20           • at 24 V / rated value         A         0.1           • with 2 current paths in series / at DC-3 / at DC-5         -         -           • at 24 V / rated value         A         0.35           • with 3 current paths in series / at DC-3 / at DC-5         -         -           • with 3 current paths in series / at DC-3 / at DC-5         -         -           • at 24 V / rated value         A         20           • at 10 V / rated value         A         20           • at 20 V / rated value         A         20           • at 20 V / rated value         A         20           • at 200 V / rated value         A         20           • at 400 V / rated value         A         20           • at 200 V / rated value         A         20           • at 200 V / rated value         A         20           • at 200 V / rated value         KW         13           • at 200 V / rated value         KW         13           • at 200 V / rated value         KW         22           • at AC-3         KW         14           • at 200 V / rated value         KW         2           • at AC-3 / at 400 V / rated value	• at 600 V / rated value	А	1
+ at 24 V / rated value       A       0         • at 110 V / rated value       A       0.1         • with 2 current paths in series / at DC-3 / at DC-5       -       -         • at 24 V / rated value       A       0.35         • with 3 current paths in series / at DC-3 / at DC-5       -       -         • at 24 V / rated value       A       20         • at 24 V / rated value       A       20         • at 24 V / rated value       A       20         • at 20 V / rated value       A       20         • at 20 V / rated value       A       0.2         • at 20 V / rated value       A       0.2         • at 20 V / rated value       A       0.2         • at 20 V / rated value       A       0.2         • at 20 V / rated value       A       0.2         • at 20 V / rated value       KW       1.5         • at 20 V / rated value       KW       1.5         • at 20 V / rated value       KW       1.5         • at 20 V / rated value       KW       1.5         • at 20 V / rated value       KW       2.2         • at 20 V / rated value       KW       2.2         • at 20 V / rated value       KW       5.5	Operational current		
• at 110 V/ rated value       A       0.1         • with 2 current paths in series / at DC-3 / at DC-5       -         • at 24 V/ rated value       A       0.35         • with 3 current paths in series / at DC-3 / at DC-5       -         • at 24 V/ rated value       A       0.35         • with 3 current paths in series / at DC-3 / at DC-5       -       -         • at 24 V/ rated value       A       0.2         • at 24 V/ rated value       A       0.2         • at 230 V/ rated value       A       0.2         • at 230 V/ rated value       A       0.2         • at A00 V/ rated value       A       0.2         • at A00 V/ rated value       KW       7.5         • at A00 V/ rated value       KW       13         • at A00 V/ rated value       KW       14         • at A00 V/ rated value       KW       12         • at A00 V/ rated value       KW       22         • at A00 V/ rated value       KW       4         • at A00 V/ rated value       KW       4         <	• with 1 current path / at DC-3 / at DC-5		
• with 2 current paths in series / at DC-3 / at DC-5         A         20           • at 110 V / rated value         A         0.35           • with 3 current paths in series / at DC-3 / at DC-5         -         -           • at 24 V / rated value         A         20           • at 110 V / rated value         A         20           • at 24 V / rated value         A         20           • at 24 V / rated value         A         20           • at 24 V / rated value         A         20           • at 24 V / rated value         A         20           • at 240 V / rated value         A         0.2           • at 230 V / rated value         A         0.2           • at 230 V / rated value         KW         7.5           • at 230 V / rated value         KW         17           • at 230 V / rated value         KW         17           • at 690 V / rated value         KW         12           • at 400 V / rated value         KW         22           • at AC-2 / at 400 V / rated value         KW         22           • at AC-3 / at 400 V / rated value         KW         4           • at AC-1 / at 400 V / rated value         KW         4           • at AC-1 / at 400 V / rated val	• at 24 V / rated value	А	20
• at 24 V / rated value       A       20         • at 110 V / rated value       A       0.35         • at 24 V / rated value       A       20         • at 24 V / rated value       A       20         • at 220 V / rated value       A       20         • at 220 V / rated value       A       20         • at 400 V / rated value       A       0.2         • at 400 V / rated value       KW       7.5         • at 230 V / rated value       KW       13         • at 230 V / rated value       KW       13         • at 320 V / rated value       KW       13         • at 320 V / rated value       KW       12         • at 320 V / rated value       KW       12         • at 320 V / rated value       KW       13         • at 320 V / rated value       KW       12         • at 320 V / rated value       KW       12         • at 320 V / rated value       KW       12         • at 320 V / rated value       KW       12         • at 320 V / rated value       KW       22         • at 400 V / rated value       KW       5.5         • at 400 V / rated value       KW       4         • at 690 V / rated value </td <td>• at 110 V / rated value</td> <td>А</td> <td>0.1</td>	• at 110 V / rated value	А	0.1
• at 110 V / rated value       A       0.35         • at 24 V / rated value       A       20         • at 24 V / rated value       A       20         • at 20 V / rated value       A       20         • at 20 V / rated value       A       20         • at 20 V / rated value       A       20         • at 200 V / rated value       A       20         • at 800 V / rated value       A       20         • at 200 V / rated value       A       20         • at 200 V / rated value       A       20         • at 200 V / rated value       A       20         • at 200 V / rated value       KW       7.5         • at 200 V / rated value       KW       13         • at 200 V / rated value       KW       22         • at 600 V / rated value       KW       22         • at 600 V / rated value       KW       22         • at 600 V / rated value       KW       4         • at 800 V / rated value       KW       4         • at 800 V / rated value       KW       4         • at 800 V / rated value       KW       4         • at 800 V / rated value       KW       4         • at 800 V / rated value <t< td=""><td>• with 2 current paths in series / at DC-3 / at DC-5</td><td></td><td></td></t<>	• with 2 current paths in series / at DC-3 / at DC-5		
with 3 current paths in series / at DC-3 / at DC-5         A         20           • at 24 V / rated value         A         20           • at 110 V / rated value         A         20           • at 220 V / rated value         A         0.2           • at 400 V / rated value         A         0.2           • at 600 V / rated value         A         0.2           • at 600 V / rated value         KW         7.5           • at 230 V / rated value         KW         7.5           • at 230 V / rated value         KW         13           • at 230 V / rated value         KW         13           • at 200 V / rated value         KW         14           • at 200 V / rated value         KW         14           • at 200 V / rated value         KW         14           • at 200 V / rated value         KW         14           • at 200 V / rated value         KW         14           • at 200 V / rated value         KW         14           • at 200 V / rated value         KW         14           • at 200 V / rated value         KW         14           • at 200 V / rated value         KW         14           • at 200 V / rated value         KW         14	• at 24 V / rated value	А	20
• at 24 V / rated value       A       20         • at 110 V / rated value       A       20         • at 220 V / rated value       A       0.2         • at 400 V / rated value       A       0.2         • at 600 V / rated value       A       0.2         • at AC-1       -       -         • at AC-1       -       -         • at 230 V / rated value       KW       7.5         • at 400 V / rated value       KW       13         • at 600 V / rated value       KW       17         • at 600 V / rated value       KW       22         • at 600 V / rated value       KW       22         • at 600 V / rated value       KW       22         • at 230 V / rated value       KW       22         • at 600 V / rated value       KW       22         • at AC-3       -       -         • at 320 V / rated value       KW       4         • at 600 V / rated value       KW       4         • at 600 V / rated value       KW       4         • at 600 V / rated value       KW       4         • at 600 V / rated value       KW       4         • at AC-4 / at 400 V / with rated operation       V       4<	• at 110 V / rated value	А	0.35
+ at 110 V/ rated valueA20• at 220 V/ rated valueA1.5• at 440 V/ rated valueA0.2• at 600 V/ rated valueA0.2• at AC-1• at 230 V/ rated valueKW7.5• at 400 V/ rated valueKW13• at 500 V/ rated valueKW13• at 600 V/ rated valueKW22• at 230 V/ rated valueKW22• at 230 V/ rated valueKW4• at 230 V / rated valueKW5.5• at 400 V/ rated valueKW5.5• at 400 V/ rated valueKW4• at 600 V/ rated valueKW4• at 600 V/ rated valueKW4• at 600 V/ rated valueKW5.5• at 600 V/ rated valueKW4• at 600 V/ rated valueKW6.5• at 600 V/ rated va	• with 3 current paths in series / at DC-3 / at DC-5		
+ at 220 V/ rated value       A       1.5         + at 440 V/ rated value       A       0.2         • at 600 V/ rated value       A       0.2         service power       -       -         • at 230 V/ rated value       KW       7.5         • at 400 V/ rated value       KW       13         • at 500 V/ rated value       KW       17         • at 600 V/ rated value       KW       22         • at 600 V/ rated value       KW       4         • at 230 V/ rated value       KW       2.2         • at 230 V/ rated value       KW       2.2         • at 230 V/ rated value       KW       4         • at 200 V/ rated value       KW       4         • at 600 V/ rated value       KW       5.5         • at 600 V/ rated value       KW       4         • at 600 V/ rated value       W       0.7         • at 600 V/ rated value       W       0.7         • at 600 V/ rated value       W       0.000         • at 600 V/ rated value       W       0.000         • at 600 V/ rated value       M       0.000         • at 600 V/ rated value       M       1.000         • at 62 / according to IEC 60947-6-2	• at 24 V / rated value	А	20
• at 440 V/rated value       A       0.2         • at 600 V/rated value       A       0.2         • at AC-1       -       -         • at 230 V/rated value       KW       7.5         • at 400 V/rated value       KW       13         • at 400 V/rated value       KW       17         • at 600 V/rated value       KW       22         • at 600 V/rated value       KW       22         • at AC-2 / at 400 V/rated value       KW       4         • at 230 V/rated value       KW       2.2         • at AC-3       -       -         • at 230 V/rated value       KW       4         • at 230 V/rated value       KW       2.2         • at AC-3 / at 400 V/rated value       KW       4         • at 400 V/rated value       KW       4         • at 400 V/rated value       KW       5.5         • at AC-4 / at 400 V/rated value       KW       6.5         • at AC-4 / at 400 V/rated value       KW       6.5         • at AC-4 / at 400 V/rated value       KW       6.5         • at AC-4 / at 400 V/rated value       KW       6.5         • at AC-4 / at 400 V/rated value       KW       6.5         • at AC-4 / at 60	• at 110 V / rated value	А	20
A 600 V/ rated valueA0.2Service power	• at 220 V / rated value	А	1.5
Service power         Image: service power           • at AC-1         KW         7.5           • at 230 V / rated value         KW         13           • at 400 V / rated value         KW         13           • at 600 V / rated value         KW         12           • at 600 V / rated value         KW         22           • at 600 V / rated value         KW         22           • at 600 V / rated value         KW         4           • at 230 V / rated value         KW         22           • at AC-3         KW         4           • at 230 V / rated value         KW         2.2           • at 230 V / rated value         KW         4           • at 230 V / rated value         KW         4           • at 230 V / rated value         KW         4           • at 600 V / rated value         KW         4           • at 600 V / rated value         KW         4           • at 600 V / rated value         KW         4           • at 62-4 / at 400 V / rated value         W         0.7           • at 62-4 / at 400 V / with rated operational         M         10,000           • at AC         1/h         10,000           • at AC         1/A </td <td>• at 440 V / rated value</td> <td>А</td> <td>0.2</td>	• at 440 V / rated value	А	0.2
• at 230 V/ rated value       kW       7.5         • at 230 V/ rated value       kW       13         • at 400 V/ rated value       kW       17         • at 690 V/ rated value       kW       22         • at 690 V/ rated value       kW       4         • at 230 V/ rated value       kW       4         • at 400 V/ rated value       kW       4         • at 690 V/ rated value       kW       4         • at 690 V/ rated value       kW       4         • at 600 V/ rated value       kW       4         • at 600 V/ rated value       kW       4         • at 600 V/ rated value       kW       10,000         • at AC       1/h       10,000       1         • at AC       1/h       10,000       1         • at AC-1 / according to IEC 60947-6-2       1/h       1,000         • at AC-2 / accord	• at 600 V / rated value	А	0.2
• at 230 V/ rated value       KW       7.5         • at 400 V/ rated value       KW       13         • at 500 V/ rated value       KW       17         • at 690 V/ rated value       KW       22         • at AC-2 / at 400 V/ rated value       KW       4         • at 230 V/ rated value       KW       4         • at 230 V/ rated value       KW       4         • at 230 V/ rated value       KW       22         • at 400 V/ rated value       KW       4         • at 230 V/ rated value       KW       4         • at 230 V/ rated value       KW       4         • at 400 V/ rated value       KW       4         • at 400 V/ rated value       KW       4         • at 690 V/ rated value       KW       4         • at 690 V/ rated value       KW       4         • at AC-4 / at 400 V/ rated value       KW       4         • at AC-4 / at 400 V/ rated value       KW       4         • at AC-4 / at 400 V/ rated value       KW       4         • at AC-4 / at 400 V/ rated value       KW       10,000         • at AC       1/h       10,000       1         • at AC-1 / according to IEC 60947-6-2       1/h       1,000	Service power		
• at 400 V / rated valuekW13• at 500 V / rated valuekW17• at 690 V / rated valuekW22• at AC-2 / at 400 V / rated valuekW4• at AC-3• at 230 V / rated valuekW2.2• at 400 V / rated valuekW4• at 690 V / rated valuekW4• at 690 V / rated valuekW5.5• at 690 V / rated valuekW4• at 690 V / rated valuekW6.7• at 690 V / rated valuekW6.7• at AC-4 / at 400 V / rated valuekW6.7• at AC-4 / at 400 V / rated valuekW6.7• at AC-4 / at 400 V / rated valuekW6.7• at AC-4 / at 400 V / rated valuekW6.7• at AC-4 / at 400 V / rated valuekW6.7• at AC-4 / at 00 V / rated valuekW6.7• at AC10 / 0.0001.1• at AC1.110,000• at AC-1 / according to IEC 60947-6-21.11.000• at AC-2 / according to IEC 60947-6-21.1750• at AC-3 / according to IEC 60947-6-21.1750• at AC-4 / according to IEC 60947-6-21.1750 <td>• at AC-1</td> <td></td> <td></td>	• at AC-1		
• at 500 V / rated valuekW17• at 690 V / rated valuekW22• at AC-2 / at 400 V / rated valuekW4• at AC-3kW2.2• at 230 V / rated valuekW2.2• at 400 V / rated valuekW4• at 690 V / rated valuekW5.5• at AC-4 / at 400 V / rated valuekW6• at AC-4 / at 400 V / rated valuekW0.7• at AC-4 / at 400 V / rated valuef0.000• at AC-4 / at 400 V / rated value1/h10,000• at AC1/h10,000• at AC1/h10,000• at AC1/h10,000• at AC-1 / according to IEC 60947-6-21/h1,000• at AC-2 / according to IEC 60947-6-21/h750• at AC-3 / according to IEC 60947-6-21/h750• at AC-4 / according to IEC 60947-6-21/h750• at	• at 230 V / rated value	kW	7.5
• at 690 V/ rated valuekW22• at AC-2 / at 400 V/ rated valuekW4• at AC-3kW2.2• at 230 V/ rated valuekW2.2• at 600 V/ rated valuekW4• at 600 V/ rated valuekW5.5• at 600 V/ rated valuekW4• at 600 V/ rated valuekW6.5• at 600 V/ rated valuekW0.7• at AC-4 / at 400 V/ rated valueW0.7• at AC-4 / at 400 V/ rated value1/h10,000• at AC1/h10,000• at AC1/h10,000• at AC1/h1,000• at AC-1 / according to IEC 60947-6-21/h1,000• at AC-1 / according to IEC 60947-6-21/h750• at AC-2 / according to IEC 60947-6-21/h50• at AC-4 / according to IEC 60947-6-21/h50	• at 400 V / rated value	kW	13
+ at AC-2 / at 400 V / rated valueRW4+ at AC-3RW2.2- at 230 V / rated valueRW4- at 400 V / rated valueRW4- at 600 V / rated valueRW5.5- at AC-4 / at 400 V / rated valueRW4- at AC-4 / at 400 V / rated valueRW6.7- at AC-4 / at 400 V / rated valueRW6.7- at AC-4 / at 400 V / rated valueRW6.7- at AC-4 / at 400 V / with rated operational current value / per conductorW6.7Off-load operating frequency at AC1/h10,000- at AC1/h10,000- at AC-1 / according to IEC 60947-6-21/h1,000- at AC-2 / according to IEC 60947-6-21/h750- at AC-3 / according to IEC 60947-6-21/h550- at AC-4 / according to IEC 60947-6-21/h750- at AC-4 / according to IEC 60947-6-21/h750	• at 500 V / rated value	kW	17
• at AC-3Image: constraint of the second	• at 690 V / rated value	kW	22
• at 230 V / rated valuekW2.2• at 400 V / rated valuekW4• at 690 V / rated valuekW5.5• at AC-4 / at 400 V / rated valuekW4Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductorW0.7Off-load operating frequency• at AC1/h10,000• at AC1/h10,000• at AC1/h10,000• at AC-1 / according to IEC 60947-6-21/h1,000• at AC-2 / according to IEC 60947-6-21/h750• at AC-3 / according to IEC 60947-6-21/h750• at AC-3 / according to IEC 60947-6-21/h750• at AC-4 / according to IEC 60947-6-2 <t< td=""><td>• at AC-2 / at 400 V / rated value</td><td>kW</td><td>4</td></t<>	• at AC-2 / at 400 V / rated value	kW	4
• at 400 V / rated valuekW4• at 690 V / rated valuekW5.5• at AC-4 / at 400 V / rated valuekW4Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductorW0.7Off-load operating frequency	• at AC-3		
• at 690 V / rated valueKW5.5• at AC-4 / at 400 V / rated valueKW4Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductorW0.7Off-load operating frequencyV1/h10,000• at AC1/h10,0001/h10,000• at AC1/h10,0001/h10,000• at AC-1 / according to IEC 60947-6-21/h1,0001/h• at AC-2 / according to IEC 60947-6-21/h750• at AC-3 / according to IEC 60947-6-21/h750• at AC-4 / according to IEC 60947-6-21/h250	• at 230 V / rated value	kW	2.2
• at AC-4 / at 400 V / rated valueKW4Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductorW0.7Off-load operating frequency• at AC1 /h10,000• at DC1 /h10,000Frequency of operation1/h10,000• at AC-1 / according to IEC 60947-6-21 /h1,000• at AC-2 / according to IEC 60947-6-21 /h750• at AC-3 / according to IEC 60947-6-21 /h250	• at 400 V / rated value	kW	4
Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductorW0.7Off-load operating frequencyV• at AC1/h10,000• at DC1/h10,000Frequency of operationV• at AC-1 / according to IEC 60947-6-21/h1,000• at AC-2 / according to IEC 60947-6-21/h750• at AC-3 / according to IEC 60947-6-21/h750• at AC-4 / according to IEC 60947-6-21/h250	• at 690 V / rated value	kW	5.5
current value / per conductorImage: conductorOff-load operating frequencyImage: conductor• at AC1/h10,000• at DC1/h10,000Frequency of operationImage: conductor• at AC-1 / according to IEC 60947-6-21/h1,000• at AC-2 / according to IEC 60947-6-21/h750• at AC-3 / according to IEC 60947-6-21/h750• at AC-4 / according to IEC 60947-6-21/h250	• at AC-4 / at 400 V / rated value	kW	4
• at AC       1/h       10,000         • at DC       1/h       10,000         Frequency of operation       1/h       10,000         • at AC-1 / according to IEC 60947-6-2       1/h       1000         • at AC-2 / according to IEC 60947-6-2       1/h       750         • at AC-3 / according to IEC 60947-6-2       1/h       250		W	0.7
• at DC       1/h       10,000         Frequency of operation       -       -         • at AC-1 / according to IEC 60947-6-2       1/h       1,000         • at AC-2 / according to IEC 60947-6-2       1/h       750         • at AC-3 / according to IEC 60947-6-2       1/h       750         • at AC-4 / according to IEC 60947-6-2       1/h       250	Off-load operating frequency		
Frequency of operation         Image: mail of the second seco	• at AC	1/h	10,000
• at AC-1 / according to IEC 60947-6-2       1/h       1,000         • at AC-2 / according to IEC 60947-6-2       1/h       750         • at AC-3 / according to IEC 60947-6-2       1/h       750         • at AC-4 / according to IEC 60947-6-2       1/h       250	• at DC	1/h	10,000
• at AC-2 / according to IEC 60947-6-2       1/h       750         • at AC-3 / according to IEC 60947-6-2       1/h       750         • at AC-4 / according to IEC 60947-6-2       1/h       250	Frequency of operation		
• at AC-3 / according to IEC 60947-6-2       1/h       750         • at AC-4 / according to IEC 60947-6-2       1/h       250	• at AC-1 / according to IEC 60947-6-2	1/h	1,000
• at AC-4 / according to IEC 60947-6-2 1/h 250	• at AC-2 / according to IEC 60947-6-2	1/h	750
	• at AC-3 / according to IEC 60947-6-2	1/h	750
Control circuit:	• at AC-4 / according to IEC 60947-6-2	1/h	250
	Control circuit:		

Type of voltage / of the controlled supply voltage	-	AC
Control supply voltage	_	
• at 50 Hz / at AC / rated value	V	24
• at 60 Hz / at AC / rated value	V	24
operating range factor control supply voltage rated value / of the magnet coil	_	
• at 50 Hz / for AC		0.8 1.1
• at 60 Hz / for AC		0.85 1.1
Apparent pull-in power / of the solenoid / for AC	V·A	27
Apparent holding power / of the solenoid / for AC	V·A	4.2
Inductive power factor		
• with the pull-in power of the coil		0.8
• with the pull-in power of the coil		0.25
Closing delay		
• at AC	ms	935
Opening delay		
• at AC	ms	3.5 14
Arcing time	ms	10 15
Residual current / of electronics / for control with signal <0>		
• at 230 V / with AC / maximum permissible	mA	3
• at 24 V / with DC / maximum permissible	mA	10
Auxiliary circuit:		
Contact reliability / of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)

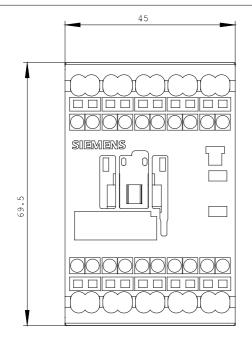
Contact reliability / of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
Number of NC contacts / for auxiliary contacts / instantaneous switching	-	1
Number of NO contacts / for auxiliary contacts / instantaneous switching		0
Operating current / of the auxiliary contacts		
• [nicht versorgt: PMD_ABP551_001_000]		
•	А	2
• at 690 V	А	1
III /CSA ratings:		

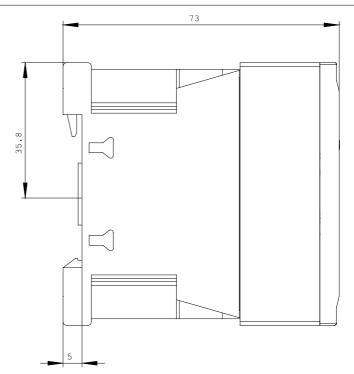
UL/CSA ratings:		
yielded mechanical performance (hp)		
<ul> <li>for single-phase squirrel cage motors</li> </ul>		
• at 110/120 V / rated value	hp	0.33
• at 230 V / rated value	hp	1
<ul> <li>for three-phase squirrel cage motors</li> </ul>		
• at 200/208 V / rated value	hp	2
• at 220/230 V / rated value	hp	3

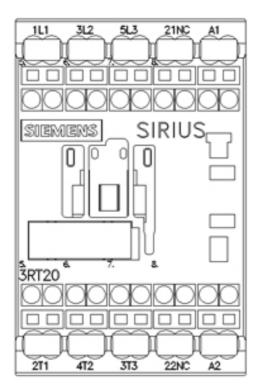
• at 460/480 V / rated value	hp	5
• at 575/600 V / rated value	hp	7.5
Operating current (FLA) / for three-phase squirrel cage motors		
• at 480 V / rated value	А	7.6
• at 600 V / rated value	А	9
Contact rating designation / for auxiliary contacts / according to UL		A600 / Q600
Short-circuit:		
Design of the fuse link		
<ul> <li>for short-circuit protection of the auxiliary switch / required</li> </ul>		fuse gL/gG: 10 A
for short-circuit protection of the main circuit		
<ul> <li>with type of assignment 1 / required</li> </ul>		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
at type of coordination 2 / required		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20A
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
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Type of fixing/fixation / series installation		Yes
Width	mm	45
Height	mm	70
Depth	mm	73
Distance, to be maintained, to the ranks assembly / sidewards	mm	0
Connections:		
Design of the electrical connection		
for main current circuit		spring-loaded terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>		spring-loaded terminals
Type of the connectable conductor cross-section	-	
for main contacts		
• solid		2x (0.5 4 mm²)
finely stranded		
with conductor end processing		2x (0.5 2.5 mm²)
without conductor final cutting		2x (0.5 2.5 mm²)
for AWG conductors / for main contacts		2x (20 12)
for auxiliary contacts		
• solid		2x (0.5 4 mm²)
finely stranded		

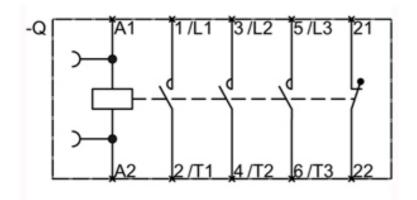
				0 (0 5	0.5 %	
	or end processing				2.5 mm²)	
	uctor final cutting				2.5 mm²)	
<ul> <li>for AWG conductor</li> </ul>	rs / for auxiliary contac	cts		2x (20 .	12)	
Sicherheitsrelevant	te Kenngrößen:					
B10 value / with high	demand rate					
<ul> <li>according to SN 31</li> </ul>	920			1,000,0	00	
T1 value / for proof te	st interval or service	life				
according to IEC 6	1508		а	20		
Proportion of dangero	ous failures					
<ul> <li>with low demand rate</li> </ul>	ate / according to SN 3	31920	%	40		
<ul> <li>with high demand r</li> </ul>	rate / according to SN	31920	%	73		
Failure rate (FIT value	) / with low demand	rate				
<ul> <li>according to SN 31</li> </ul>	920		FIT	100		
Product function						
mirror contact to IE	C 60947-4-1			Yes		
<ul> <li>positively driven op</li> </ul>	peration to IEC 60947-	5-1		No		
			_			
Certificates/approv	als:					
General Product Ap	proval				Functional Safety /	Declaration of
					Safety of Machinery	Conformity
	<b>SP</b> CSA	GOST				Conformity EG-Konf.
	CSA CSA	GOST	UL		Machinery	CE
CCC Shipping Approval		GOST GOST			Machinery	CE
Shipping Approval	CSA CSA D U R E A U V R I T A S	<b>Ĵ</b> Å DNV			Machinery Type Examination	CE
Shipping Approval		DNV DNV			Machinery Type Examination	CE
Shipping Approval ABS Shipping Approval Chipping Approval	RMRS	Conter	GL		Machinery Type Examination	CE
Shipping Approval	RMRS rnloadcenter (Catalog	other Confirmation	GL		Machinery Type Examination	CE
Shipping Approval	EXAMPLE A CONTRACT OF CONTRACT	other Confirmation	GL		Machinery Type Examination	CE
Shipping Approval	RMRS RMRS	other Confirmation	GL		Machinery Type Examination	CE

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RT2016-2AB02-ZW97









last change:

Feb 15, 2013