## **SIEMENS**

Data sheet 3RT2518-1AK60



Contactor, 2NO + 2NC, AC-3, 7.5 kW, 110 V AC, 50 Hz, 120 V, 60Hz, 4-pole, 2NO + 2NC, Size S00, Screw terminal

product brand name	SIRIUS
product designation	contactor
product type designation	3RT25
General technical data	
size of contactor	S00
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (switching cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2009 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 maximum	95 %
Main circuit	
number of poles for main current circuit	4

Immitter of NC contacts for man contacts   2	number of NO contacts for main contacts	2			
### Committed State					
al AC-1 up to 690 V		4			
— at ambient temperature 40 "C rated value	•				
- at ambient temperature 60 °C rated value	·	22 A			
A AC-2 at AC-3 at AC-9 v   AC-2					
— per NO contact rated value	·	2071			
per NC contact rated value  operational current  at 24 V rated value  at 220 V rated value  at 240 V rated value  at 240 V rated value  at 220 V rated value  at 240 V rated value  at 220 V rated value  at 110 V rated value  at 240 V rated value  at 240 V rated value  at 240 V rated value  at 24 V per NC contact rated value  at 24 V per NC contact rated value  at 110 V per NC contact rated value  at 110 V per NC contact rated value  at 110 V per NC contact rated value  at 220 V per NC contact rated value  at 110 V per NC contact rated valu		16 A			
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	operational current				
- at 110 V rated value	<ul><li>at 1 current path at DC-1</li></ul>				
	— at 24 V rated value	20 A			
with 2 current paths in series at DC-1	— at 110 V rated value	2.1 A			
• with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 420 P rated value  operational current  • at 1 current path at DC-3 at DC-5 — at 24 V per NC contact rated value — at 24 V per NC contact rated value — at 210 V per NC contact rated value — at 110 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 24 V per NC contact rated value — at 24 V per NC contact rated value — at 24 V per NC contact rated value — at 24 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 230 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value  • at 230 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 60 A S switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero c	— at 220 V rated value	0.8 A			
- at 24 V rated value	— at 440 V rated value	0.6 A			
- at 110 V rated value	<ul> <li>with 2 current paths in series at DC-1</li> </ul>				
- at 220 V rated value	— at 24 V rated value	20 A			
operational current  • at 1 current path at DC-3 at DC-5  — at 24 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 24 V per NC contact rated value — at 24 V per NC contact rated value — at 24 V per NC contact rated value — at 24 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 230 V per NC contact rated value • at 230 V per NC contact rated value • at 230 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • limited to 50 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 50 s switchi	— at 110 V rated value	12 A			
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<ul> <li>at 220 V per NO contact rated value</li> <li>with 2 current paths in series at DC-3 at DC-5</li> <li>at 24 V per NC contact rated value</li> <li>at 24 V per NC contact rated value</li> <li>at 110 V per NC contact rated value</li> <li>at 110 V per NC contact rated value</li> <li>at 110 V per NC contact rated value</li> <li>operating power at AC-2 at AC-3</li> <li>at 230 V per NC contact rated value</li> <li>at 230 V per NC contact rated value</li> <li>at 400 V per NC contact rated value</li> <li>at 400 V per NC contact rated value</li> <li>bimited to 1 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s sw</li></ul>	<ul> <li>at 110 V per NO contact rated value</li> </ul>	0.15 A			
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- at 24 V per NO contact rated value - at 110 V per NC contact rated value 0.175 A 0.35 A  operating power at AC-2 at AC-3 • at 230 V per NC contact rated value 2.2 kW • at 230 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NO contact rated value • at 400 V per NO contact rated value • at 400 V per NO contact rated value • at 400 V per NO contact rated value • at 400 V per NO contact rated value • at 400 V per NO contact rated value • at 400 V per NO contact rated value • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum  output to the control at 22 kW  2.2 W  2.2 W  control current per conductor  no-load switching frequency • at AC • at DC • at Control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value • 110 V • at 60 Hz rated value					
- at 24 V per NO contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value 0.175 A 0.35 A  operating power at AC-2 at AC-3 • at 230 V per NC contact rated value • at 230 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NO contact rated value • at 400 V per NO contact rated value • at 400 V per NO contact rated value • at 400 V per NO contact rated value • at 400 V per NO contact rated value • bimited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 80 s switching at zero current maximum  • limited to 80 s switching at zero current maximum  • limited to 80 s switching at zero current maximum  • limited to 80 s switching at zero current maximum  • limited to 80 s switching at zero current maximum  • limited to 80 s switching at zero current maximum  • limited to 80 s switching at zero current maximum  • limited to 80 s switching at zero current maximum  • limited to 80 s switching at zero current maximum  • limited to 80 s switching at zero current maximum  • limited to 80 s switching at zero current maximum  • limited to 80 s switching at zero current maximum  • limited to 80 s switching at zero current maximum  • limited to 80 s swit	— at 24 V per NC contact rated value	20 A			
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o at 230 V per NC contact rated value         at 400 V per NC contact rated value	— at 110 V per NC contact rated value				
o at 230 V per NC contact rated value         at 400 V per NC contact rated value	at 110 V per NO contact rated value	0.35 A			
• at 230 V per NC contact rated value • at 230 V per NO contact rated value • at 400 V per NC contact rated value • at 400 V per NO contact rated value • at 400 V per NO contact rated value • at 400 V per NO contact rated value  **short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum  **Power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor  **no-load switching frequency • at AC • at DC  **operating frequency at AC-1 maximum  **power loss fw] at AC-2 maximum  **power loss fw] at AC-3 at 400 V for rated value of the operating frequency at AC-1 maximum  **power loss fw] at AC-3 at 400 V for rated value of the operating frequency  **power loss fw] at AC-3 at 400 V for rated value of the operating frequency  **power loss fw] at AC-3 at 400 V for rated value of the operating frequency  **power loss fw] at AC-3 at 400 V for rated value of the operating frequency  **power loss fw] at AC-3 at 400 V for rated value of the operating frequency  **power loss fw] at AC-3 at 400 V for rated value of the operating frequency  **power loss fw] at AC-3 at 400 V for rated value of the operating frequency  **power loss fw] at AC-3 at 400 V for rated value of the operating frequency  **power loss fw] at AC-3 at 400 V for rated value of the operating frequency  **power loss fw] at AC-3 at 400 V for rated value of the operating fwar loss fw at AC-1 rated value  **power loss fw] at AC-3 at 400 V for					
at 400 V per NC contact rated value at 400 V per NO contact rated value  short-time withstand current in cold operating state up to 40 °C  ilimited to 1 s switching at zero current maximum ilimited to 5 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 30 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum verificational current per conductor  no-load switching frequency at AC at DC  operating frequency at AC-1 maximum  type of voltage of the control supply voltage at 60 Hz rated value  4 kW 7.5 kW  165 A; Use minimum cross-section acc. to AC-1 rated value 128 A; Use minimum cross-section acc. to AC-1 rated value 92 A; Use minimum cross-section acc. to A		2.2 kW			
• at 400 V per NO contact rated value  short-time withstand current in cold operating state up to 40 °C  • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum  power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor  no-load switching frequency • at AC • at DC  operating frequency at AC-1 maximum  type of voltage of the control supply voltage  at 50 Hz rated value  110 V  110 V  120 V	·	4 kW			
• at 400 V per NO contact rated value  short-time withstand current in cold operating state up to 40 °C  • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum  power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor  no-load switching frequency • at AC • at DC  operating frequency at AC-1 maximum  type of voltage of the control supply voltage  at 50 Hz rated value  110 V  110 V  120 V	•				
short-time withstand current in cold operating state up to 40 °C  • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum  power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor  no-load switching frequency • at AC • at DC  operating frequency at AC-1 maximum  10 000 1/h  control circuit/ Control  type of voltage of the control supply voltage • at 50 Hz rated value • at 60 Hz rated value					
<ul> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor</li> <li>no-load switching frequency</li> <li>at AC</li> <li>at DC</li> <li>operating frequency at AC-1 maximum</li> <li>10 000 1/h</li> <li>control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>128 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>22 2 W</li> <li>32 2 W</li> <li>34 3 4 400 V for rated value of the operational current per conductor</li> <li>10 000 1/h</li> <li>10 000</li></ul>	short-time withstand current in cold operating state				
<ul> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor</li> <li>no-load switching frequency</li> <li>at AC</li> <li>at DC</li> <li>10 000 1/h</li> <li>operating frequency at AC-1 maximum</li> <li>10 000 1/h</li> <li>control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>128 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>22 W</li> <li>22 W</li> <li>30 000 1/h</li> <li>40 000 1/h</li></ul>		165 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor</li> <li>no-load switching frequency</li> <li>at AC</li> <li>at DC</li> <li>operating frequency at AC-1 maximum</li> <li>10 000 1/h</li> <li>operating frequency at AC-1 maximum</li> <li>10 000 1/h</li> <li>control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>128 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>92 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>AC -1 rated value</li> <li>AC -2 W</li> </ul>					
<ul> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor</li> <li>no-load switching frequency</li> <li>at AC</li> <li>at DC</li> <li>operating frequency at AC-1 maximum</li> <li>type of voltage of the control supply voltage</li> <li>at 50 Hz rated value</li> <li>limited to 30 s switching at zero current maximum</li> <li>22 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>10 000 1/h</li> <li>10 000 1/h</li> <li>10 000 1/h</li> <li>AC</li> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>120 V</li> </ul>	_				
<ul> <li>limited to 60 s switching at zero current maximum</li> <li>power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor</li> <li>no-load switching frequency         <ul> <li>at AC</li> <li>at DC</li> <li>10 000 1/h</li> </ul> </li> <li>operating frequency at AC-1 maximum</li> <li>type of voltage of the control supply voltage</li> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul> <li>AC Use minimum cross-section acc. to AC-1 rated value</li> <li>AC Use minimum cross-section acc. to AC-1 rated value</li> <li>AC Use minimum cross-section acc. to AC-1 rated value</li> <li>AC Use minimum cross-section acc. to AC-1 rated value</li> <li>AC Use minimum cross-section acc. to AC-1 rated value</li> <li>AC Use minimum cross-section acc. to AC-1 rated value</li> <li>AC Use minimum cross-section acc. to AC-1 rated value</li> <li>AC Use minimum cross-section acc. to AC-1 rated value</li> <li>AC Use minimum cross-section acc. to AC-1 rated value</li> <li>AC Use minimum cross-section acc. to AC-1 rated value</li> <li>AC Use minimum cross-section acc. to AC-1 rated value</li> <li>AC Use minimum cross-section acc. to AC-1 rated value</li> <li>AC Use minimum cross-section acc. to AC-1 rated value</li> <li>AC Use minimum cross-section acc. to AC-1 rated value</li> <li>AC Use minimum cross-section acc. to AC-1 rated value</li> <li>AC Use minimum cross-section acc. to AC-1 rated value</li> <li>AC Use minimum cross-section acc. to AC-1 rated value</li> <li>AC Use minimum cross-section acc. to AC-1 rated value</li> <li>AC Use minimum cross-section acc. to AC-1 rated value</li> <li>AC Use minimum cross-section acc.</li> <li>AC Use minimum</li>					
power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor  no-load switching frequency  • at AC  • at DC  10 000 1/h  operating frequency at AC-1 maximum  1 000 1/h  Control circuit/ Control  type of voltage of the control supply voltage  • at 50 Hz rated value  • at 60 Hz rated value  12.2 W  2.2 W  2.2 W  10 000 1/h  AC  10 000 1/h					
operational current per conductor  no-load switching frequency  • at AC  • at DC  10 000 1/h  operating frequency at AC-1 maximum  1 000 1/h  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  120 V					
■ at AC     ■ at DC     10 000 1/h     operating frequency at AC-1 maximum     1 000 1/h  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     120 V	•				
● at DC  operating frequency at AC-1 maximum  1 000 1/h  Control circuit/ Control  type of voltage of the control supply voltage  AC  control supply voltage at AC  ● at 50 Hz rated value  ● at 60 Hz rated value  120 V	no-load switching frequency				
operating frequency at AC-1 maximum  1 000 1/h  Control circuit/ Control  type of voltage of the control supply voltage  AC  control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  120 V					
type of voltage of the control supply voltage  control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  120 V		10 000 1/h			
type of voltage of the control supply voltage  control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  120 V		1 000 1/h			
control supply voltage at AC	Control circuit/ Control				
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>110 V</li> <li>120 V</li> </ul>	type of voltage of the control supply voltage	AC			
• at 60 Hz rated value 120 V	control supply voltage at AC				
	<ul> <li>at 50 Hz rated value</li> </ul>	110 V			
operating range factor control supply voltage rated	at 60 Hz rated value	120 V			
	operating range factor control supply voltage rated				

value of magnet coil at AC  at 160 Hz  at 16				
■ a16 Hz apparent pick-up power of magnet coil at AC ■ a15 0 Hz ■	value of magnet coil at AC			
apparent pick-up power of magnet coil at AC	● at 50 Hz	0.8 1.1		
	• at 60 Hz	0.8 1.1		
eat 60 Hz	apparent pick-up power of magnet coil at AC	43 V·A		
Inductive power factor with closing power of the coil   0.8   0.77   0	● at 50 Hz	43 V·A		
	• at 60 Hz			
	inductive power factor with closing power of the coil	0.8		
apparent holding power of magnet coil at AC  • at 50 Hz  • at 60 Hz  finductive power factor with the holding power of the coil  • at 50 Hz  • at 60 Hz  • at 80 Hz  • at AC  • at 30 Hz  • at AC  • at AC at 230 V maximum permissible  • at 230 V rated value  • at 230 V rated value  • at 430 V rated value  • at 64 A  • at 110 V rated value  • at 110 V rated value • at 220 V rated value • at 24 V rated value • at 600 V rated value • at 48 V rated value • at 400 V rated value		0.77		
apparent holding power of magnet coil at AC  • at 50 Hz  • at 60 Hz  finductive power factor with the holding power of the coil  • at 50 Hz  • at 60 Hz  • at 80 Hz  • at AC  • at 30 Hz  • at AC  • at AC at 230 V maximum permissible  • at 230 V rated value  • at 230 V rated value  • at 430 V rated value  • at 64 A  • at 110 V rated value  • at 110 V rated value • at 220 V rated value • at 24 V rated value • at 600 V rated value • at 48 V rated value • at 400 V rated value	• at 60 Hz	0.77		
at 50 Hz at 60 Hz at 60 Hz binductive power factor with the holding power of the coil at 50 Hz at 50 Hz at 60 Hz binductive power factor with the holding power of the coil at 50 Hz at 60 Hz binductive power factor with the holding power of the coil at 60 Hz binductive power factor with the holding power of the coil at 60 Hz binductive power factor with the holding power of the coil at 60 Hz binductive power factor with the holding power of the coil at 60 Hz binductive power factor with the holding power of the coil at 60 Hz binductive power factor with the holding power of the coil at 60 Hz binductive power factor with the holding power of the coil at 60 Hz binductive power factor with the holding power of the coil at 60 Hz binductive power factor with the holding power of the coil at 60 Hz binductive power factor with the holding power of the coil at 60 Hz binductive power factor with the holding power of the coil at 60 Hz binductive power factor with the holding power of the coil at 60 Hz binductive power factor with the holding power of the coil at 60 Hz binductive power factor with the holding power of the coil at 60 Hz binductive power factor with the holding power of the coil at 60 Hz binductive power factor with the holding power of the coil at 60 Hz binductive power factor with the factor of the sust link binductive power factor with the holding power of the factor of the auxiliary switch by of 50 Ab (60 Hz) binductive power factor with the factor of the binductive holding power of the factor of the auxiliary switch by of 50 Ab (60 Hz) binductive power factor with the holding power of the factor of the auxiliary switch by of 50 Ab (60 Hz) binductive power factor with the holding power of the factor of the auxiliary switch by of 50 Ab (60 Hz) binductive power factor with the holding power of the factor of the auxiliary switch by of 50 Ab (60 Hz) binductive power factor of the auxiliary switch by of 50 Ab (60 Hz) binductive power factor of the factor of the factor of the binductive power factor of the fac				
• at 80 Hz				
inductive power factor with the holding power of the coll  at 50 Hz at 60 Hz 0.25 closing delay at AC opening delay at AC T 13 ms arcing time residual current of the electronics for control with signal-00 at AC at 230 V maximum permissible 0.004 A  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational c		6.5 V·A		
e at 50 Hz e at 60 Hz				
● at 60 Hz  closing delay  ● at AC  opening delay  ● at AC  arcing time  residual current of the electronics for control with signal <0> ● at AC at 230 V maximum permissible  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact unumber of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum  operational current at AC-15  ● at 230 V rated value  • at 400 V rated value  • at 45 V rated value  • at 45 V rated value  • at 110 V rated value  • at 220 V rated value  • at 220 V rated value  • at 220 V rated value  • at 45 V rated value  • at 20 V rated value  • at 40 V rated value  • at 20 V				
closing delay	● at 50 Hz	0.25		
e at AC opening delay at AC arcing time residual current of the electronics for control with signal <-O> at AC at 230 V maximum permissible  at AC at AC at 230 V maximum permissible  at AC at 230 V maximum permissible  number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum  operational current at AC-15 at 230 V rated value at 400 V rated value at 400 V rated value at 48 V rated value at 110 V rated value at 220 V rated value at 48 V rated value at 220 V rated value at 48 V rated value at 220 V rated value at 24 V rated value at 250 V rated value at 27 V rated value at 28 V rated value at 29 V rated value at 30 V rated value at 48 V rated value at 49 V rated value at 40 V rated value at 50 V rated value at 50 V rated value at 50 V rated v	● at 60 Hz	0.25		
e at AC 713 ms arcing time residual current of the electronics for control with signal <0> e at AC at 230 V maximum permissible 0.004 A  Auxiliary circuit number of NC contacts for auxiliary contacts mistantaneous confact number of NC contacts for auxiliary contacts mistantaneous confact number of NC contacts for auxiliary contacts mistantaneous confact number of NC contacts for auxiliary contacts noperational current at AC-12 maximum 10 A  operational current at AC-15 e at 230 V rated value 3 A  operational current at DC-12 e at 48 V rated value 6 A e at 100 V rated value 9 A e at 60 V rated value 9 A e at 125 V rated value 1 A e at 125 V rated value 1 A e at 125 V rated value 1 A e at 220 V rated value 1 A e at 220 V rated value 1 A e at 220 V rated value 1 A e at 24 V rated value 1 A e at 25 V rated value 1 A e at 26 V rated value 1 A e at 26 V rated value 1 A e at 27 V rated value 1 A e at 28 V rated value 1 A e at 28 V rated value 2 A e at 29 V rated value 2 A e at 40 V rated value 1 A e at 40 V rated value 2 A e at 40 V rated value 2 A e at 40 V rated value 1 A e at 40 V rated value 2 A e at 40 V rated value 1 A e at 20 V rated value 1 A e at 20 V rated value 2 A e at 40 V rated value 1 A e at 20 V rated value 2 A e at 40 V rated value 2 A e at 40 V rated value 3 A e at 40 V rated value 4 A e at 40 V rated value 4 A e at 60 V rated value 6	closing delay			
e at AC 713 ms arcing time residual current of the electronics for control with signal <0> e at AC at 230 V maximum permissible 0.004 A  Auxiliary circuit number of NC contacts for auxiliary contacts mistantaneous confact number of NC contacts for auxiliary contacts mistantaneous confact number of NC contacts for auxiliary contacts mistantaneous confact number of NC contacts for auxiliary contacts noperational current at AC-12 maximum 10 A  operational current at AC-15 e at 230 V rated value 3 A  operational current at DC-12 e at 48 V rated value 6 A e at 100 V rated value 9 A e at 60 V rated value 9 A e at 125 V rated value 1 A e at 125 V rated value 1 A e at 125 V rated value 1 A e at 220 V rated value 1 A e at 220 V rated value 1 A e at 220 V rated value 1 A e at 24 V rated value 1 A e at 25 V rated value 1 A e at 26 V rated value 1 A e at 26 V rated value 1 A e at 27 V rated value 1 A e at 28 V rated value 1 A e at 28 V rated value 2 A e at 29 V rated value 2 A e at 40 V rated value 1 A e at 40 V rated value 2 A e at 40 V rated value 2 A e at 40 V rated value 1 A e at 40 V rated value 2 A e at 40 V rated value 1 A e at 20 V rated value 1 A e at 20 V rated value 2 A e at 40 V rated value 1 A e at 20 V rated value 2 A e at 40 V rated value 2 A e at 40 V rated value 3 A e at 40 V rated value 4 A e at 40 V rated value 4 A e at 60 V rated value 6		9 35 ms		
arcing time	opening delay			
arcing time residual current of the electronics for control with signal <0>		7 13 ms		
residual current of the electronics for control with signal <0> at AC at 230 V maximum permissible 0.004 A  Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts operational current at AC-12 maximum 10 A operational current at AC-15 at 230 V rated value 10 A at 400 V rated value 3 A operational current at DC-12 at 48 V rated value 6 A at 60 V rated value 3 A at 125 V rated value 2 A at 220 V rated value 1 A at 220 V rated value 1 A at 600 V rated value 2 A at 600 V rated value 1 A at 600 V rated value 2 A at 600 V rated value 1 A at 600 V rated value 2 A at 600 V rated value 2 A at 600 V rated value 1 A at 220 V rated value 2 A at 600 V rated value 1 A at 220 V rated value 2 A at 600 V rated value 2 A at 600 V rated value 1 A at 48 V rated value 2 A at 600 V rated value 2 A at 600 V rated value 3 A at 40 V rated value 4 A at 600 V rated value 5 A at 600 V rated value 1 A at 600 V ra	arcing time			
at AC at 230 V maximum permissible  Auxiliary circuit  rumber of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value  at 400 V rated value  at 400 V rated value  at 6A  at 110 V rated value  at 125 V rated value  at 125 V rated value  at 600 V rated value  at 600 V rated value  at 60 V rated value  at 10 V rated value  at 20 V rated value  at 10 V rated value  at 20 V rated value  at 60 V rated value  be 10 A  60 V rated value  at 60 V rated value  a	residual current of the electronics for control with			
Auxillary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 10 V rated value • at 10 V rated value • at 110 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 800 V rated value • at 600 V rated value • at 800 V rated value • at 600 V rated value • at 220 V rated value • at 320 V rated value • at 600 V rated Value • a		0.004 A		
number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 800 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 300 V rated value • at 300 V rated value • at 220 V rated value • at 300 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 40 V rated value • at 40 V rated value • at 40 V rated value • at 600 V rated value • at 300 V rated value • at 600 V r	· · · · · · · · · · · · · · · · · · ·			
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  operational current at DC-12  • at 48 V rated value 6 A  • at 50 V rated value 6 A  • at 110 V rated value 6 A  • at 110 V rated value 1 A  • at 110 V rated value 1 A  • at 220 V rated value 1 A  • at 220 V rated value 1 A  • at 220 V rated value 1 A  • at 24 V rated value 1 A  • at 24 V rated value 1 A  • at 24 V rated value 2 A  • at 48 V rated value 1 A  • at 60 V rated value 2 A  • at 110 V rated value 2 A  • at 24 V rated value 1 A  • at 60 V rated value 2 A  • at 30 V rated value 1 A  • at 60 V rated value 1 A  • at 110 V rated value 1 A  • at 110 V rated value 1 A  • at 20 V rated value 1 A  • at 30 V rated value 1 A  • at 40 V rated value 1 A  • at 60 V rated value 1 A  •	number of NC contacts for auxiliary contacts	0		
operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 40 V rated value • at 8 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 600 V rated value • at 110 V rated value • at 600 V rated value  Contact reliability of auxiliary contacts  UL/CSA ratings  yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value  Contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch	number of NO contacts for auxiliary contacts	0		
operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 600 V rated value • at 600 V rated value • at 100 V rated value • at 110 V rated value • at 220 V rated value • at 230 V rated value • at 200 V rated value • at 600 V rated value  contact reliability of auxiliary contacts  UL/CSA ratings  yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch		10 A		
at 230 V rated value at 400 V rated value  operational current at DC-12  at 48 V rated value at 60 V rated value at 100 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value be at 220 V rated value at 600 V rated value  operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 600 V rated value at 600 V rated value be at 600 V rated value at 600 V rated value at 600 V rated value be at 600 V rated value  at 600 V rated value be at 600 V rated value  contact reliability of auxiliary contacts  T faulty switching per 100 million (17 V, 1 mA)  UL/CSA ratings  yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  for short-circuit protection of the main circuit  with type of assignment 2 required be for short-circuit protection of the auxiliary switch fuse gG: 10 A  fuse gG: 10 A		1071		
• at 400 V rated value  operational current at DC-12  • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 60 V rated value • at 600 V rated value • at 70 V rated value • at 80 V rated value • at 80 V rated value • at 80 V rated value • at 600 V rat	•	10 A		
operational current at DC-12  • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 48 V rated value • at 600 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value  2 h  A600 / Q600  Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required • for short-circuit protection of the auxiliary switch				
at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 60 N at 60 N at 60 V rated value at 60 V rated value be at 60 V rated value at 60 V rated value at 60 V rated value be at 24 V rated value at 48 V rated value at 48 V rated value at 48 V rated value at 60 V rated value at 10 A at 220 V rated value at 10 V rated value at 20 V rated value at 60 V rated value be at 60 V rated value at 60 V rated value be at 60 V rated value at 60 V rated value be at 60 V rated value b				
<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 220 V rated value</li> <li>at 600 V rated value</li> <li>1 A</li> <li>out 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 60 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 600 V rated value</li> <li>at 700 V rate</li></ul>	•	6 A		
at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value  otat 600 V rated value  otat 80 V rated value  at 80 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 220 V rated value  at 600 V rated value  but 600 V rated value  contact reliability of auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)  UL/CSA ratings  yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  for short-circuit protection of the main circuit  with type of coordination 1 required with type of assignment 2 required  for short-circuit protection of the auxiliary switch  fuse gG: 10 A				
<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 80 V rated value</li> <li>at 600 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>contact ratings</li> <li>yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value</li> <li>contact rating of auxiliary contacts according to UL</li> <li>Short-circuit protection</li> <li>design of the fuse link</li> <li>of or short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> <li>— with type of assignment 2 required</li> <li>of or short-circuit protection of the auxiliary switch</li> </ul>				
at 220 V rated value at 600 V rated value  operational current at DC-13  at 24 V rated value at 48 V rated value at 60 V rated value at 60 V rated value at 60 V rated value at 20 V rated value but 20 V rated value at 20 V rated value at 20 V rated value but 20 V rated value but 20 V rated value contact reliability of auxiliary contacts  UL/CSA ratings  yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link after 690 V, 100 kA) but 40 V rated value and 50 V rated value and 600 V rated val				
operational current at DC-13     o at 24 V rated value     ot 48 V rated value     ot 46 0 V rated value     ot 46 0 V rated value     ot 47 V rated value     ot 48 V rated value     ot 50 V rated value     ot 50 V rated value     ot 60 V rated value     ot 60 V rated value     ot 70 V rated value  Contact reliability of auxiliary contacts  Vielded mechanical performance [hp] for single-phase AC motor at 230 V rated value  Contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link     of r short-circuit protection of the main circuit				
operational current at DC-13         • at 24 V rated value         • at 48 V rated value         • at 60 V rated value         • at 110 V rated value         • at 220 V rated value         • at 600 V rated value				
<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 220 V rated value</li> <li>at 600 V rated value</li> <li>bi faulty switching per 100 million (17 V, 1 mA)</li> <li>at 600 V rated value</li> <li>bi faulty switching per 100 million (17 V, 1 mA)</li> <li>bi faulty switching per 100 million (17 V, 1 mA)</li> <li>bi faulty switching per 100 million (17 V, 1 mA)</li> <li>bi faulty switching per 100 million (17 V, 1 mA)</li> <li>bi faulty switching per 100 million (17 V, 1 mA)</li> <li>bi faulty switching per 100 million (17 V, 1 mA)</li> <li>bi faulty switching per 100 million (17 V, 1 mA)</li> <li>bi faulty switching per 100 million (17 V, 1 mA)</li> <li>contact rating of auxiliary contacts according to UL</li> <li>contact rating of auxiliary contacts according to UL</li> <li>A600 / Q600</li> <li>A600 / Q600</li> <li>Short-circuit protection</li> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>gG: 35 A (690 V, 100 kA)</li> <li>gG: 20A (690V, 100kA)</li> <li>fuse gG: 10 A</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 220 V rated value</li> <li>at 600 V rated value</li> <li>b 1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UL/CSA ratings</li> <li>yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value</li> <li>contact rating of auxiliary contacts according to UL</li> <li>Short-circuit protection</li> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> <li>gG: 35 A (690 V, 100 kA)</li> <li>gG: 20A (690V, 100kA)</li> <li>for short-circuit protection of the auxiliary switch</li> <li>fuse gG: 10 A</li> </ul>	•	10 Δ		
at 10 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 600 V rated value  outside the first simple of auxiliary contacts  I faulty switching per 100 million (17 V, 1 mA)  UL/CSA ratings  yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  for short-circuit protection of the main circuit  with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch  fuse gG: 20A (690 V, 100 kA) fuse gG: 10 A				
<ul> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UL/CSA ratings</li> <li>yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value</li> <li>contact rating of auxiliary contacts according to UL</li> <li>Short-circuit protection</li> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch</li> <li>fuse gG: 10 A</li> </ul>				
<ul> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>0.1 A</li> <li>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UL/CSA ratings</li> <li>yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value</li> <li>contact rating of auxiliary contacts according to UL</li> <li>Short-circuit protection</li> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch</li> <li>fuse gG: 10 A</li> </ul>				
■ at 600 V rated value     Contact reliability of auxiliary contacts      UL/CSA ratings  Vielded mechanical performance [hp] for single-phase AC motor at 230 V rated value  Contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link      ● for short-circuit protection of the main circuit      — with type of coordination 1 required     — with type of assignment 2 required      ● for short-circuit protection of the auxiliary switch      ● for short-circuit protection of the auxiliary switch      ● for short-circuit protection of the auxiliary switch      ■ for short-circuit protection of the auxiliary switch				
contact reliability of auxiliary contacts  UL/CSA ratings  yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch  • for short-circuit protection of the auxiliary switch  1 faulty switching per 100 million (17 V, 1 mA)  2 hp  A600 / Q600  Short-circuit protection  4600 / Q600  GG: 35 A (690 V, 100 kA)  GG: 20A (690 V, 100 kA)  • for short-circuit protection of the auxiliary switch  fuse gG: 10 A				
yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch  • for short-circuit protection of the auxiliary switch   yielded mechanical performance [hp] for single-phase AC  2 hp  A600 / Q600  A600 / Q600				
yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch  • for short-circuit protection of the auxiliary switch  2 hp  A600 / Q600  A600 / Q600		Fraulty Switching per 100 million (17 V, 1 mA)		
motor at 230 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch  fuse gG: 10 A	-			
Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch  Short-circuit protection  gG: 35 A (690 V, 100 kA)  gG: 20A (690V, 100kA)  fuse gG: 10 A	motor at 230 V rated value			
design of the fuse link		A600 / Q600		
<ul> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> <li>— with type of assignment 2 required</li> <li>gG: 35 A (690 V, 100 kA)</li> <li>gG: 20A (690V, 100kA)</li> <li>for short-circuit protection of the auxiliary switch</li> </ul>	Short-circuit protection			
<ul> <li>— with type of coordination 1 required</li> <li>— with type of assignment 2 required</li> <li>• for short-circuit protection of the auxiliary switch</li> <li>gG: 35 A (690 V, 100 kA)</li> <li>gG: 20A (690V, 100kA)</li> <li>fuse gG: 10 A</li> </ul>	design of the fuse link			
<ul> <li>— with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch</li> <li>gG: 20A (690V, 100kA)</li> <li>fuse gG: 10 A</li> </ul>	<ul> <li>for short-circuit protection of the main circuit</li> </ul>			
• for short-circuit protection of the auxiliary switch fuse gG: 10 A	<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 35 A (690 V, 100 kA)		
• for short-circuit protection of the auxiliary switch fuse gG: 10 A	<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 20A (690V, 100kA)		
	required			

nstallation/ mounting/ dimensions mounting position	+/-180° rotation possible on	vertical mounting surface	ce: can be tilted	
a	forward and backward by +/			
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022			
• side-by-side mounting	Yes			
height	57.5 mm			
width	45 mm			
depth	73 mm			
required spacing				
<ul> <li>with side-by-side mounting</li> </ul>				
— forwards	0 mm			
— backwards	0 mm			
— upwards	0 mm			
— downwards	0 mm			
— at the side	0 mm			
for grounded parts				
— forwards	0 mm			
— backwards	0 mm			
— upwards	0 mm			
— at the side	6 mm			
— downwards	0 mm			
for live parts				
— forwards	0 mm			
— backwards	0 mm			
— upwards	0 mm			
— downwards	0 mm			
— at the side	6 mm			
connections/ Terminals				
type of electrical connection				
for main current circuit	screw-type terminals			
for auxiliary and control circuit	screw-type terminals			
type of connectable conductor cross-sections				
• for main contacts				
— solid	2x (0.5 1.5 mm²), 2x (0.75	5 2.5 mm²). 2x 4 mm²		
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²			
— finely stranded with core end processing		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
at AWG cables for main contacts	2x (20 16), 2x (18 14), 2x 12			
type of connectable conductor cross-sections		-^· ·-		
for auxiliary contacts				
— solid	2x (0.5 1.5 mm²), 2x (0.75	5 2.5 mm²) 2x 4 mm²		
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 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				
AWG number as coded connectable conductor cross section for main contacts	2x (20 16), 2x (18 14), 2x 12 20 12			
afety related data				
product function mirror contact acc. to IEC 60947-4-1	Yes; with 3RH29			
product function positively driven operation acc. to IEC 60947-5-1	No No			
T1 value for proof test interval or service life acc. to IEC 61508	20 y			
protection class IP on the front acc. to IEC 60529	IP20			
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front			
ertificates/ 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





Marine / Shipping

other











Confirmation

other



## **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=3RT2518-1AK60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2518-1AK60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2518-1AK60

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

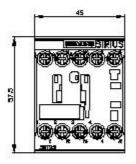
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2518-1AK60&lang=en

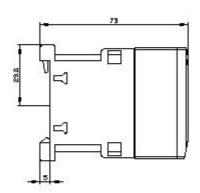
Characteristic: Tripping characteristics, I2t, Let-through current

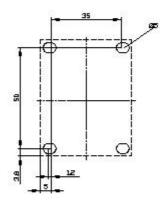
https://support.industry.siemens.com/cs/ww/en/ps/3RT2518-1AK60/char

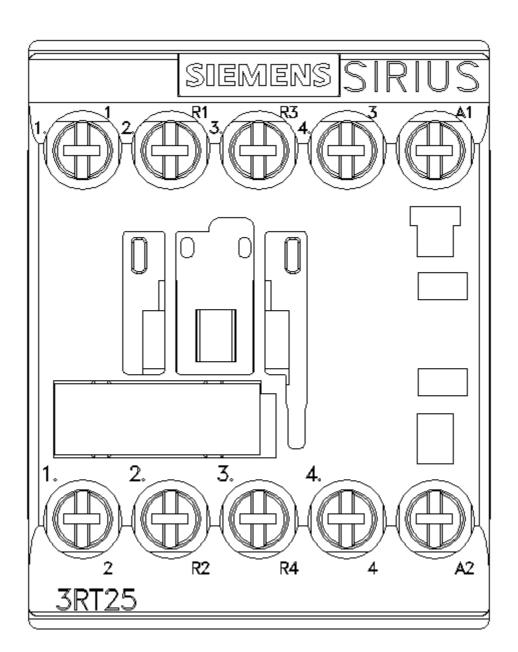
Further characteristics (e.g. electrical endurance, switching frequency)

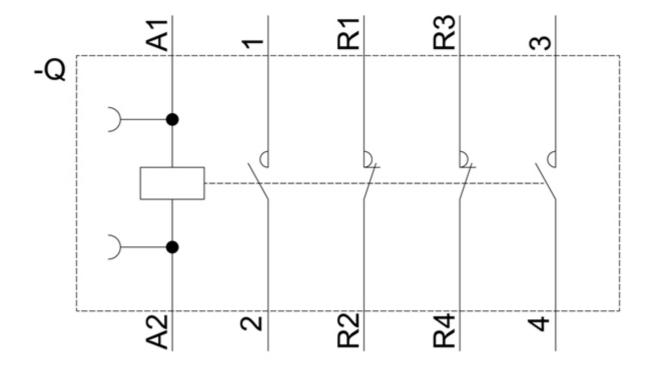
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2518-1AK60&objecttype=14&gridview=view1











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