## SIEMENS

## Data sheet

## 3RT2316-2AK60



contactor AC-1, 18 A, 400 V / 40  $^\circ\text{C},$  4-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, spring-loaded terminal, size: S00

and the second sec	
product brand name	SIRIUS
product designation	Contactor
product type designation	3RT23
General technical data	
size of contactor	S00
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	4.4 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.1 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of the auxiliary and control 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
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
shock resistance at rectangular impulse	
• at AC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	4
number of NO contacts for main contacts	4
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	18 A

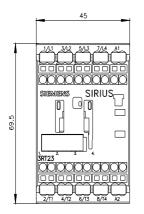
vulue         19 A           - up to 680 V at ambent temperature 80° C raded vulue         19 A           - at 400 V rate vulue         9 A           - at 600 V rate vulue         8.5 A           minimum cross-section in main circuit at maximum AC-1 rated value         2.5 mm²           operating pover         4 W           - at 400 V rate vulue         0 or 4 m           - at 400 V rate vulue         10 000 1 fn           - at 50 Hz rated vulue         10 000 1 fn<		
value     value       - af 400 V rated value     9 A       • al AC-4 af 400 V rated value     8 5 A       remainmen cross-section in rain circuit at maximum AC-1 rated value     25 mm²       • af AC-4 af 400 V rated value     4 WV       • af AC-4 af 400 V rated value     4 WV       • af AC-4 af 400 V rated value     4 WV       • af AC-4 af 400 V rated value     4 WV       • af AC-4 af 400 V rated value     4 WV       • af AC-4 af 400 V rated value     4 WV       • indied to 15 soutching at zero current maximum     Use minimum coss-section acc to AC-1 rated value       • indied to 15 soutching at zero current maximum     Use minimum coss-section acc to AC-1 rated value       • indied to 16 soutching at zero current maximum     Use minimum coss-section acc to AC-1 rated value       • indied to 16 soutching at zero current maximum     Use minimum coss-section acc to AC-1 rated value       • indied to 16 soutching at zero current maximum     Use minimum coss-section acc to AC-1 rated value       • indied to 16 soutching at zero current maximum     Use minimum coss-section acc to AC-1 rated value       • indied to 16 soutching at zero current maximum     Use minimum coss-section acc to AC-1 rated value       • indied to 16 soutching at zero current maximum     Use minimum coss-section acc to AC-1 rated value       • at AC     indicate prove at AC-1       • at AC     indicate prove at AC-1		18 A
	value	16 A
• a1 AC-4 at 400 V rated value     # 5 A       operating power     2.5 mm²       • a1 AC-4 at 400 V rated value     4 kW       • a1 AC-3 at 400 V rated value     4 kW       • a1 AC-4 at 400 V rated value     4 kW       • a1 AC-4 at 400 V rated value     4 kW       • a1 AC-4 at 400 V rated value     4 kW       • a1 AC-4 at 400 V rated value     4 kW       • a1 AC-4 at 400 V rated value     4 kW       • a1 AC-4 at 400 V rated value     4 kW       • a1 AC-4 at 400 V rated value     4 kW       • a1 AC-5 at 400 V rated value     4 kW       • a1 AC-5 at 400 V rated value     4 kW       • a1 AC-5 at 400 V rated value     4 kW       • a1 AC-5 at 400 V rated value     4 kW       • a1 AC-5 at 400 V rated value     4 kW       • a1 AC-5 at 400 V rated value     4 kW       • a1 AC-5 at 400 V rated value     4 kW       • a1 AC-5 at 400 Value     100 00 1/n       operating frequency at AC-1 maximum     100 00 1/n       operating range factor control supply voltage     AC       • a1 50 Hz     0 kC       • a1 50 Hz     0 kC       • a1 50 Hz     0 kL 11       • a1 50 Hz     0 kL 12	• at AC-3	
minimum cross-section in main circuit at maximum AC-1 rated visual         2.5 mm²           operating power • at AC-3 at 400 V rated value • at AC-3 at AC-4 value • at AC-	— at 400 V rated value	9 A
value         operating prover           • at ACS at 400 V rated value         4 kW           • at ACS at 400 V rated value         4 kW           • initiad to 1 s witching at zero current maximum         Use minimum cross-section acc. to AC-1 rated value           • initiad to 1 s witching at zero current maximum         Use minimum cross-section acc. to AC-1 rated value           • initiad to 0 s witching at zero current maximum         Use minimum cross-section acc. to AC-1 rated value           • initiad to 0 s witching at zero current maximum         Use minimum cross-section acc. to AC-1 rated value           • initiad to 0 s witching at zero current maximum         Use minimum cross-section acc. to AC-1 rated value           • initiad to 0 s witching at zero current maximum         Use minimum cross-section acc. to AC-1 rated value           • initiad to 0 s witching at zero current maximum         Use minimum cross-section acc. to AC-1 rated value           • at AC         10000 1/h           operating frequency #AC         1000 1/h           operating range factor control supply voltage         AC           • at 60 htz         0.8 . 1.1           • at 60 htz         0.8 . 1.1      <	• at AC-4 at 400 V rated value	8.5 A
operating power         4 kW           • at AC-3 at 400 V rated value         4 kW           • at AC-3 at 400 V rated value         4 kW           ehort-time withstand current in cold operating state up to 40 °C         4 kW           • inmide to 1s switching at zero current maximum         Use minimum cross-section acc. to AC-1 rated value           • inmide to 30 switching at zero current maximum         Use minimum cross-section acc. to AC-1 rated value           • inmide to 30 switching at zero current maximum         Use minimum cross-section acc. to AC-1 rated value           • inmide to 80 switching at zero current maximum         Use minimum cross-section acc. to AC-1 rated value           • inmide to 80 switching at zero current maximum         Use minimum cross-section acc. to AC-1 rated value           • inmide to 80 switching at zero current maximum         Use minimum cross-section acc. to AC-1 rated value           • at 80 wrbs at AC         10 000 1/h           optical clear Use Control         1000 1/h           optical clear Use Control         1000 1/h           optical clear Use Control         100 1/h           optical clear Use Control         100 1/h           optical clear Use Control Supply voltage rated value of magnet clear at Clear at Value         100 1/h           optical clear Value         100 1/h           opting tabo triz         08 1.1		2.5 mm <sup>2</sup>
• at AC-4 at 400 V rated value     4 kW       ahort-Chew writestand current in cold operating state up to 0 °C     Version of the set of the		
short free withstand current in cold operating state up to 40°C         use minimum cross-section acc. to AC-1 rated value           use minimum cross-section acc. to AC-1 rated value         use minimum cross-section acc. to AC-1 rated value           use minimum cross-section acc. to AC-1 rated value         use minimum cross-section acc. to AC-1 rated value           use minimum cross-section acc. to AC-1 rated value         use minimum cross-section acc. to AC-1 rated value           use minimum cross-section acc. to AC-1 rated value         use minimum cross-section acc. to AC-1 rated value           notade switching frequency         10000 1/h           at AC         10000 1/h           operating frequency at AC-1 maximum         10000 1/h           operating frequency at AC-1 maximum         10000 1/h           operating respect of acc. to AC-1 rated value         10000 1/h           operating respect of acc. to AC-1 rated value         10000 1/h           operating respect of the control supply voltage         AC           control supply voltage rated value of magnet coll at AC         100V           at 60 Hz         0.8 1.1           operating respect for orron supply voltage rated value of magnet coll at AC         26.4 VA           ind to Hz         0.8 1.1           operating respect of the coll of AC         0.8	<ul> <li>at AC-3 at 400 V rated value</li> </ul>	4 kW
40 °C     Initiate to 1 s switching at zero current maximum     Use minimum cross-section acc. to AC-1 rated value       • Initiate to 1 s switching at zero current maximum     Use minimum cross-section acc. to AC-1 rated value       • Initiate to 3 s switching at zero current maximum     Use minimum cross-section acc. to AC-1 rated value       • Initiate to 3 s switching at zero current maximum     Use minimum cross-section acc. to AC-1 rated value       • Initiate to 3 s switching at zero current maximum     Use minimum cross-section acc. to AC-1 rated value       • Initiate to 3 s switching at zero current maximum     Use minimum cross-section acc. to AC-1 rated value       • at AC     1000 1/h       operating frequency at AC-1 maximum     1000 1/h       • at 50 Hz     AC       • at 50 Hz rated value     110 V       • at 50 Hz rated value     110 V       • at 50 Hz     0.8 1.1       • at 50 Hz     0.8	<ul> <li>at AC-4 at 400 V rated value</li> </ul>	4 kW
<ul> <li>limited to 5 s exitching at zero current maximum</li> <li>Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 3 s switching at zero current maximum</li> <li>Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 3 s switching at zero current maximum</li> <li>Use minimum cross-section acc. to AC-1 rated value</li> <li>imited to 3 s switching at zero current maximum</li> <li>Use minimum cross-section acc. to AC-1 rated value</li> <li>imited to 3 switching at zero current maximum</li> <li>Use minimum cross-section acc. to AC-1 rated value</li> <li>into 4 control</li> <li>out at AC</li> <li>operating frequency</li> <li>at AC</li> <li>(pre of voltage</li> <li>AC</li> <li>(pre of voltage</li> <li>(pre of vo</li></ul>		
<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 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>at AC</li> <li>operating frequency at AC - 1 maximum</li> <li>1000 1/h</li> <li>Control currul Control</li> <li>type of voltage of the control supply voltage</li> <li>AC</li> <li>control supply voltage at AC</li> <li>at 50 Hz rated value</li> <li>110 V</li> <li>at 60 Hz</li> <li>at 60 Hz</li></ul>	<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value
• limited to 30 s switching at zero current maximum     Use minimum cross-section acc. to AC-1 rated value       • inited to 30 s switching at zero current maximum     Use minimum cross-section acc. to AC-1 rated value       • at AC     10 000 t/h       oparating frequency at AC-1 maximum     10 000 t/h       Control circuid Control     AC       type of voltage     AC       control supply voltage at AC     AC       • at 50 Hz rated value     110 V       • at 50 Hz rated value     120 V       oparating range factor control supply voltage rated value of magnet coll at AC     0.8 . 1.1       • at 60 Hz     0.8 . 1.1       • at 50 Hz     0.8 .	<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s writching frequency         Use minimum cross-section acc. to AC-1 rated value           • at AC         10 000 1/h           operating frequency at AC-1 maximum         1000 1/h           Control circuit Control         Ype of voltage of the control supply voltage           AC         AC           Control supply voltage of the control supply voltage         AC           control supply voltage at AC         110 V           • at 50 Hz rated value         120 V           operating frequency at AC         8 1.1           • at 50 Hz rated value         120 V           operating frequency         0.8 1.1           • at 50 Hz         0.81           • at 60 Hz         0.24           • at 60 Hz         0.24	<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency       10000 1/h         e at AC       10000 1/h         control circuit/ Control       1000 1/h         type of voltage of the control supply voltage       AC         control supply voltage at AC       100 1/h         e at 50 Hz rated value       100 / h         e at 50 Hz rated value       120 V         opparting range factor control supply voltage rated value of magnet coil at AC       0.8 1.1         e at 50 Hz       0.8 1.1         e at 50 Hz       0.8 1.1         at 50 Hz       0.8 1.1         e at 60 Hz       0.81         e at 60 Hz       0.81         e at 60 Hz       0.81         e at 60 Hz       0.24         e at 60 Hz       0.24      <	<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value
• et AC       10 000 1/h         operating frequency at AC-1 maximum       1000 1/h         (type of voltage of the control supply voltage       AC         (type of voltage of the control supply voltage       AC         (type of voltage of the control supply voltage       AC         • at 50 Hz rated value       110 V         • at 60 Hz rated value       120 V         operating range factor control supply voltage rated value of magnet coil at AC       0.8 1.1         • at 60 Hz       0.8 1.1         • at 60 Hz       0.8 1.1         apparent pick-up power of magnet coil at AC       26.4 VA         • at 60 Hz       0.8 1.1         • at 60 Hz       0.8 1.1         apparent pick-up power of magnet coil at AC       26.4 VA         • at 60 Hz       0.81         • at 60 Hz       0.24         • at 60 Hz       0	<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value
operating frequency at AC-1 maximum     1 000 1/h       Control circuit/ Control     The second sec	· · · · · · · · · · · · · · · · · · ·	
Control circuit/ Control         type of voltage       AC         type of voltage of the control supply voltage       AC         control supply voltage at AC       110 V         • at 50 Hz rated value       120 V         operating range factor control supply voltage rated value of magnet coil at AC       0.8 1.1         • at 50 Hz       0.8 1.1         • at 50 Hz       0.8 1.1         at 60 Hz       0.8 1.1         at 60 Hz       0.8 1.1         eat 50 Hz       0.8 1.1         at 60 Hz       0.8 1.1         inductive power of magnet coil at AC       0.8 1.1         eat 50 Hz       0.8 1.1         eat 50 Hz       0.81         eat 50 Hz       0.24         eat 60 Hz       0.24         closing delay       0.24         eat 60 Hz       0.24         closing delay       0		10 000 1/h
Control circuit/ Control         type of voltage       AC         type of voltage of the control supply voltage       AC         control supply voltage at AC       110 V         • at 50 Hz rated value       120 V         operating range factor control supply voltage rated value of magnet coil at AC       0.8 1.1         • at 50 Hz       0.8 1.1         • at 50 Hz       0.8 1.1         at 60 Hz       0.8 1.1         at 60 Hz       0.8 1.1         eat 50 Hz       0.8 1.1         at 60 Hz       0.8 1.1         inductive power of magnet coil at AC       0.8 1.1         eat 50 Hz       0.8 1.1         eat 50 Hz       0.81         eat 50 Hz       0.24         eat 60 Hz       0.24         closing delay       0.24         eat 60 Hz       0.24         closing delay       0		1 000 1/h
type of voltage of the control supply voltage         AC           type of voltage of the control supply voltage         AC           control supply voltage at AC         at 50 Hz rated value           • at 50 Hz rated value         110 V           • at 50 Hz rated value         120 V           operating range factor control supply voltage rated value of         0.8 1.1           • at 50 Hz         0.8 1.1           apparent pick-up power of magnet coil at AC         • at 50 Hz           • at 60 Hz         0.8 1.1           apparent pick-up power factor with closing power of the coil         • at 60 Hz           • at 60 Hz         0.81           inductive power factor with the losting power of the coil         • at 50 Hz           • at 60 Hz         0.81           apparent holding power of magnet coil at AC         • 4.4 VA           • at 60 Hz         0.24           • at 60 Hz         0.24           i 60 Hz         0.24           • at 60 Hz         0.24           closing delay         • at AC           • at AC         9 35 ms           opening delay         • at AC           • attachable         2           number of NC contacts for auxiliary contacts         2           • attachabl		
type of voltage of the control supply voltage at AC         AC           e at 50 Hz rated value         110 V           • at 60 Hz rated value         120 V           operating range factor control supply voltage rated value of magnet coil at AC         0.8 1.1           • at 60 Hz         0.8 1.1           apparent pick-up power of magnet coil at AC         0.8 1.1           • at 60 Hz         0.8 1.1           apparent pick-up power of magnet coil at AC         0.8 1.1           • at 60 Hz         0.8 1.1           apparent pick-up power of magnet coil at AC         0.8.1           • at 60 Hz         0.8.1           inductive power factor with closing power of the coil         0.81           • at 60 Hz         0.24		AC
Active supply voltage at AC       is 50 Hz rated value       110 V         • at 50 Hz rated value       120 V         operating range factor control supply voltage rated value of magnet coil at AC       0.8 1.1         • at 60 Hz       0.24         • at 60 Hz       0		
• at 50 Hz rated value       110 V         • at 50 Hz rated value       120 V         operating range factor control supply voltage rated value of magnet coil at AC       120 V         • at 50 Hz       0.8 1.1         • at 50 Hz       0.8 1.1         apperent pick-up power of magnet coil at AC       0.8 1.1         • at 60 Hz       26.4 VA         • at 60 Hz       0.8 1.1         apperent pick-up power factor with closing power of the coil       0.81         • at 60 Hz       44 VA         • at 60 Hz       0.81         • at 60 Hz       0.24         • at 60 Hz       0.24         • at AC       9 35 ms         • at AC       9 35 ms         • at AC       7 13 ms         • at AC       7 13 ms         • attachable       2         number of NC contacts for auxiliary contacts       2         • attachable       2         Short-cir		
• at 60 Hz rated value       120 V         operating range factor control supply voltage rated value of magnet coil at AC       0.8 1.1         • at 50 Hz       0.8 1.1         • at 60 Hz       0.8 1.1         apparent pick-up power of magnet coil at AC       0.8 1.1         • at 60 Hz       26.4 VA         • at 60 Hz       0.8.1         • at 60 Hz       0.81         • at 60 Hz       0.24         • at 60 Hz       0.24 <tr< td=""><td></td><td>110 \/</td></tr<>		110 \/
operating range factor control supply voltage rated value of magnet coil at AC         • at 50 Hz       0.81.1         • at 60 Hz       0.81.1         aparent pick-up power of magnet coil at AC       26.4 VA         • at 50 Hz       26.4 VA         • at 50 Hz       0.81         • at 50 Hz       0.81         • at 60 Hz       0.81         at 60 Hz       0.81         • at 60 Hz       0.24         • at 60 Hz       2         • at AC       9 35 ms         opening delay       •         • at AC       7 13 ms <td></td> <td></td>		
miggnet coll at AC       0.8 1.1         • at 50 Hz       0.8 1.1         apparent pick-up power of magnet coll at AC       0.8 1.1         • at 50 Hz       26.4 VA         inductive power factor with closing power of the coll       0.81         • at 60 Hz       0.81         • at 60 Hz       0.81         • at 60 Hz       0.81         • at 50 Hz       0.81         • at 60 Hz       0.24         • at AC       9 35 ms         opening delay       • 13 ms         • at AC       7 13 ms         arcing time       10 15 ms         contol version of the switch operating mechanism       Standard A1 - A2         Auxillary circuit       2         number of NC contacts for auxillary contacts       2         • attachable       2     <		120 V
• at 60 Hz       0.8 1.1         apparent pick-up power of magnet coil at AC       26.4 VA         • at 60 Hz       26.4 VA         Inductive power factor with closing power of the coil       6.81         • at 60 Hz       0.81         • at 60 Hz       4.4 VA         • at 50 Hz       0.24         • at 50 Hz       0.24         • at 60 Hz       0.24         • at 60 Hz       0.24         • at 60 Hz       0.24         • at AC       9 35 ms         opening delay       0.31 ms         • at AC       7 13 ms         arcling time       10 15 ms         control version of the switch operating mechanism       Standard A1 - A2         Auxiliary cortacts       0         • attachable       2         number of NC contacts for auxiliary contacts       2         • attachable       2         Short-circuit protection       No         design of the fuse link       6 or short-circuit protection         wit atchab	magnet coil at AC	
apparent pick-up power of magnet coil at AC       26.4 VA         • at 50 Hz       26.4 VA         inductive power factor with closing power of the coil       0.81         • at 50 Hz       0.81         apparent holding power of magnet coil at AC       •         • at 50 Hz       4.4 VA         • at 50 Hz       4.4 VA         inductive power factor with the holding power of the coil       •         • at 50 Hz       0.24         • at 60 Hz       0.24         closing delay       0.24         • at AC       9 35 ms         opening delay       0 15 ms         • at AC       7 13 ms         arcing time       10 15 ms         control version of the switch operating mechanism       Standard A1 - A2         Auxillary circuit       1         number of NC contacts for auxiliary contacts       2         • attachable       2         stachable       2         stachable       2         ordesign of the sub ink       2         • attachable       2         ordouturti protection       No </td <td></td> <td></td>		
• at 50 Hz       26.4 VA         • at 60 Hz       26.4 VA         inductive power factor with closing power of the coil       0.81         • at 50 Hz       4.4 VA         • at 50 Hz       0.24         • at 50 Hz       0.24         • at 60 Hz       0.24         • at AC       9 35 ms         opening delay       •         • at AC       10 15 ms         control version of the switch operating mechanism       Standard A1 - A2         Auxillary circuit       10 15 ms         number of NC contacts for auxillary contacts       2         • attachable       2         number of NO contacts for auxillary contacts       2         • attachable       2         statchable       2         statchable       2         Short-circuit prot		0.8 1.1
• at 60 Hz       264 VA         inductive power factor with closing power of the coil		
inductive power factor with closing power of the coll     inductive power factor with closing power of the coll       • at 50 Hz     0.81       apparent holding power of magnet coll at AC     0.81       • at 60 Hz     0.81       • at 60 Hz     4.4 VA       inductive power factor with the holding power of the coll     0.24       • at 60 Hz     0.24       • at 60 Hz     0.24       closing delay     0.24       • at AC     9 35 ms       opening delay     -       • at AC     7 13 ms       arcing time     10 15 ms       control version of the switch operating mechanism     Standard A1 - A2       Auxiliary circuit     -       number of NC contacts for auxiliary contacts     -       • attachable     2       Short-circuit protection     No       design of the fuse link     -       • for short-circuit protection of the main circuit     -       product function short circuit protection     No       design of the fuse link     -       • for short-circuit protection of the main circuit     -       - with type of coordination 1 required     gG: 35 A (690 V, 100 KA)		
• at 50 Hz     0.81       • at 60 Hz     0.81       apparent holding power of magnet coil at AC     4.4 VA       • at 50 Hz     4.4 VA       • at 60 Hz     0.24       inductive power factor with the holding power of the coil     0.24       • at 60 Hz     0.24       • at 60 Hz     0.24       closing delay     0.24       • at AC     9 35 ms       opening delay     -       • at AC     7 13 ms       arcing time     10 15 ms       control version of the switch operating mechanism     Standard A1 - A2       Auxiliary circuit     2       number of NC contacts for auxiliary contacts     2       • attachable     2       stachable     2       stachable     2       inductive protection     No       design of the fuse link     6 if or short-circuit protection       - with type of coordination 1 required     gG: 35 A (690 V, 100 kA)		26.4 VA
• at 60 Hz       0.81         apparent holding power of magnet coil at AC       4.4 VA         • at 50 Hz       4.4 VA         • at 60 Hz       4.4 VA         inductive power factor with the holding power of the coil       0.24         • at 60 Hz       0.24         closing delay       0.24         • at AC       9 35 ms         opening delay       -         • at AC       7 13 ms         arcing time       10 15 ms         control version of the switch operating mechanism       Standard A1 - A2         Auxiliary circuit       2         number of NC contacts for auxillary contacts       2         • attachable       2         • attachable       2         standard bile       2         fort.circuit protection       No         design of the fuse link       6: 35 A (690 V, 100 kA)	inductive power factor with closing power of the coil	
apparent holding power of magnet coil at AC       4.4 VA         • at 50 Hz       4.4 VA         • at 60 Hz       4.4 VA         inductive power factor with the holding power of the coil       0.24         • at 50 Hz       0.24         • at 60 Hz       0.24         • at 60 Hz       0.24         closing delay       0.24         • at AC       9 35 ms         opening delay       10 15 ms         • at AC       7 13 ms         arcing time       10 15 ms         control version of the switch operating mechanism       Standard A1 - A2         AuxIllary circuit       2         number of NC contacts for auxiliary contacts       2         • attachable       2         Short-circuit protection       No         design of the fuse link       6 for short-circuit protection of the main circuit         - with type of coordination 1 required       gG: 35 A (690 V, 100 kA)	● at 50 Hz	0.81
• at 50 Hz       4.4 VA         • at 60 Hz       4.4 VA         inductive power factor with the holding power of the coil       0.24         • at 50 Hz       0.24         • at 60 Hz       0.24         closing delay       0.24         • at AC       9 35 ms         opening delay       -         • at AC       7 13 ms         arcing time       10 15 ms         control version of the switch operating mechanism       Standard A1 - A2         Auxiliary circuit       -         number of NC contacts for auxiliary contacts       2         • attachable       2         Short-circuit protection       No         design of the fuse link       -         • for short-circuit protection of the main circuit       Ge: 35 A (690 V, 100 kA)	● at 60 Hz	0.81
• at 60 Hz4.4 VAinductive power factor with the holding power of the coll	apparent holding power of magnet coil at AC	
inductive power factor with the holding power of the coil       0.24         • at 50 Hz       0.24         • at 60 Hz       0.24         closing delay       0.24         • at AC       9 35 ms         opening delay       -         • at AC       7 13 ms         arcing time       10 15 ms         control version of the switch operating mechanism       Standard A1 - A2         Auxiliary circuit       2         number of NC contacts for auxiliary contacts       2         • attachable       2         statachable       2         Short-circuit protection       No         design of the fuse link       • for short-circuit protection of the main circuit         - with type of coordination 1 required       gG: 35 A (690 V, 100 kA)	• at 50 Hz	4.4 VA
• at 50 Hz       0.24         • at 60 Hz       0.24         closing delay       0.24         • at AC       9 35 ms         opening delay       -         • at AC       7 13 ms         arcing time       10 15 ms         control version of the switch operating mechanism       Standard A1 - A2         Auxiliary circuit       -         number of NC contacts for auxiliary contacts       2         • attachable       2         statachable       2         Short-circuit protection       No         design of the fuse link       -         • for short-circuit protection of the main circuit       -         - with type of coordination 1 required       gG: 35 A (690 V, 100 kA)	• at 60 Hz	4.4 VA
• at 60 Hz       0.24         closing delay       9 35 ms         • at AC       9 35 ms         opening delay       -         • at AC       7 13 ms         arcing time       10 15 ms         control version of the switch operating mechanism       Standard A1 - A2         Auxiliary circuit       -         number of NC contacts for auxiliary contacts       2         • attachable       2         number of NO contacts for auxiliary contacts       2         • attachable       2         statachable       2         both-circuit protection       No         design of the fuse link       -         • for short-circuit protection of the main circuit       -         - with type of coordination 1 required       gG: 35 A (690 V, 100 kA)	inductive power factor with the holding power of the coil	
closing delay       9 35 ms         opening delay       7 13 ms         • at AC       7 13 ms         arcing time       10 15 ms         control version of the switch operating mechanism       Standard A1 - A2         Auxiliary circuit       2         number of NC contacts for auxiliary contacts       2         • attachable       2         statachable       2         Short-circuit protection       No         design of the fuse link       • for short-circuit protection of the main circuit         - with type of coordination 1 required       gG: 35 A (690 V, 100 kA)	• at 50 Hz	0.24
• at AC       9 35 ms         opening delay       -         • at AC       7 13 ms         arcing time       10 15 ms         control version of the switch operating mechanism       Standard A1 - A2         Auxiliary circuit       -         number of NC contacts for auxiliary contacts       2         • attachable       2         number of NO contacts for auxiliary contacts       -         • attachable       2         Short-circuit protection       No         design of the fuse link       -         • for short-circuit protection of the main circuit       -         - with type of coordination 1 required       gG: 35 A (690 V, 100 kA)	• at 60 Hz	0.24
opening delay       7 13 ms         arcing time       10 15 ms         control version of the switch operating mechanism       Standard A1 - A2         Auxiliary circuit       Auxiliary circuit         number of NC contacts for auxiliary contacts       2         • attachable       2         number of NO contacts for auxiliary contacts       2         • attachable       2         Short-circuit protection       No         design of the fuse link       No         • for short-circuit protection of the main circuit       GG: 35 A (690 V, 100 kA)	closing delay	
• at AC       7 13 ms         arcing time       10 15 ms         control version of the switch operating mechanism       Standard A1 - A2         Auxiliary circuit       Image: Auxiliary contacts for auxiliary contacts         • attachable       2         number of NO contacts for auxiliary contacts       2         • attachable       2         statchable       2         • attachable       2         fort-circuit protection       No         design of the fuse link       For short-circuit protection of the main circuit         • for short-circuit protection of the main circuit       GG: 35 A (690 V, 100 kA)	• at AC	9 35 ms
• at AC       7 13 ms         arcing time       10 15 ms         control version of the switch operating mechanism       Standard A1 - A2         Auxiliary circuit       Image: Auxiliary contacts for auxiliary contacts         • attachable       2         number of NO contacts for auxiliary contacts       2         • attachable       2         statchable       2         • attachable       2         fort-circuit protection       No         design of the fuse link       For short-circuit protection of the main circuit         • for short-circuit protection of the main circuit       GG: 35 A (690 V, 100 kA)	opening delay	
arcing time       10 15 ms         control version of the switch operating mechanism       Standard A1 - A2         Auxiliary circuit       Auxiliary circuit         number of NC contacts for auxiliary contacts       2         • attachable       2         number of NO contacts for auxiliary contacts       2         • attachable       2         • attachable       2         • attachable       2         • attachable       2         Short-circuit protection       No         design of the fuse link       • for short-circuit protection of the main circuit         - with type of coordination 1 required       gG: 35 A (690 V, 100 kA)		7 13 ms
control version of the switch operating mechanism       Standard A1 - A2         Auxiliary circuit       Product for auxiliary contacts       Product for auxiliary contacts         • attachable       2         number of NO contacts for auxiliary contacts       2         • attachable       0         • attachable       2         • attachable       9         • attachable       9         • attachable       9         • for short-circuit protection of the main circuit       -         • for short-circuit protection of the main circuit       -         - with type of coordination 1 required       gG: 35 A (690 V, 100 kA) <td></td> <td></td>		
Auxiliary circuit         number of NC contacts for auxiliary contacts         • attachable       2         number of NO contacts for auxiliary contacts       2         number of NO contacts for auxiliary contacts       2         • attachable       2         Short-circuit protection       2         product function short circuit protection       No         design of the fuse link       4         • for short-circuit protection of the main circuit       - with type of coordination 1 required         gG: 35 A (690 V, 100 kA)       gG: 35 A (690 V, 100 kA)		
number of NC contacts for auxiliary contacts       2         • attachable       2         number of NO contacts for auxiliary contacts       2         • attachable       2         • attachable       2         Short-circuit protection       2         product function short circuit protection       No         design of the fuse link       4         • for short-circuit protection of the main circuit		
• attachable       2         number of NO contacts for auxiliary contacts       2         • attachable       2         Short-circuit protection       2         product function short circuit protection       No         design of the fuse link       4         • for short-circuit protection of the main circuit		
number of NO contacts for auxiliary contacts       2         • attachable       2         Short-circuit protection       2         product function short circuit protection       No         design of the fuse link       • for short-circuit protection of the main circuit         - with type of coordination 1 required       gG: 35 A (690 V, 100 kA)	-	2
• attachable     2       Short-circuit protection     No       product function short circuit protection     No       design of the fuse link     -       • for short-circuit protection of the main circuit     gG: 35 A (690 V, 100 kA)		
Short-circuit protection         No           product function short circuit protection         No           design of the fuse link         -           • for short-circuit protection of the main circuit         -           - with type of coordination 1 required         gG: 35 A (690 V, 100 kA)	-	2
product function short circuit protection       No         design of the fuse link		2
design of the fuse link     • for short-circuit protection of the main circuit       — with type of coordination 1 required     gG: 35 A (690 V, 100 kA)		
for short-circuit protection of the main circuit		INO
- with type of coordination 1 required gG: 35 A (690 V, 100 kA)	-	
- with type of assignment 2 required gG: 20 A (690 V, 100 kA)		
	— with type of assignment 2 required	gG: 20 A (690 V, 100 kA)

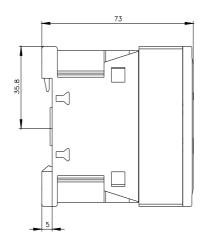
<ul> <li>for short-circuit protection of the auxiliary switch it</li> </ul>	required
llation/mounting/dimonsions	

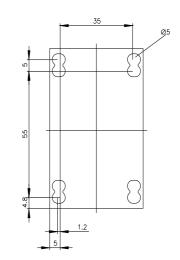
gG: 10 A (690 V, 1 kA)

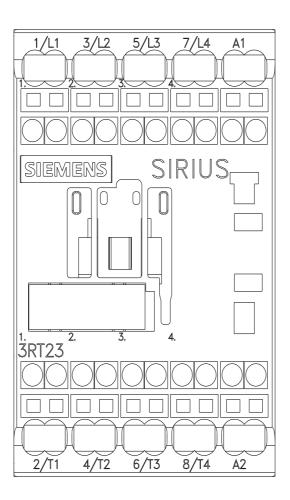
• for short-circuit protection of the auxiliary switch required gG: 10 A (690 V, 1 kA)			
nstallation/ mounting/ dimensions			
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward a backward by +/- 22.5° on vertical mounting surface		
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
<ul> <li>side-by-side mounting</li> </ul>	Yes		
height	70 mm		
width	45 mm		
depth	73 mm		
required spacing			
<ul> <li>with side-by-side mounting</li> </ul>			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	0 mm		
<ul> <li>for grounded parts</li> </ul>			
— forwards	10 mm		
— upwards	10 mm		
— at the side	6 mm		
— downwards	10 mm		
• for live parts			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	6 mm		
onnections/ Terminals			
type of electrical connection			
for main current circuit	spring-loaded terminals		
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals		
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals		
of magnet coil	Spring-type terminals		
type of connectable conductor cross-sections for main contacts			
• solid	2x (0.5 4 mm²)		
solid or stranded	2x (0,5 4 mm <sup>2</sup> )		
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm <sup>2</sup> )		
<ul> <li>finely stranded with out core end processing</li> </ul>	2x (0.5 2.5 mm <sup>2</sup> )		
connectable conductor cross-section for main contacts			
solid	0.5 4 mm²		
solid     solid or stranded	0.5 4 mm <sup>2</sup>		
• stranded	0.5 4 mm <sup>2</sup>		
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>		
	0.5 2.5 mm <sup>2</sup>		
finely stranded without core end processing	0.5 2.5 11111		
connectable conductor cross-section for auxiliary contacts	$0.5 - 4 \text{ mm}^2$		
<ul> <li>solid or stranded</li> <li>finally stranded with core and processing</li> </ul>	0.5 4 mm <sup>2</sup>		
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core and processing</li> </ul>	0.5 2.5 mm <sup>2</sup>		
finely stranded without core end processing	0.5 2.5 mm <sup>2</sup>		
type of connectable conductor cross-sections			
for auxiliary contacts	$2 \times (0 = 0 = 2 = 2)$		
— solid	2x (0.5 2.5 mm <sup>2</sup> )		
— solid or stranded	$2x (0.5 \dots 4 \text{ mm}^2)$		
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm <sup>2</sup> )		
— finely stranded without core end processing	2x (0.5 2.5 mm <sup>2</sup> )		
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12		
AWG number as coded connectable conductor cross section			
for main contacts	20 12		
	20 12		
for auxiliary contacts	20 12		
afety related data			
product function			
mirror contact according to IEC 60947-4-1	Yes; with 3RH29		
T1 value for proof test interval or service life according to IEC	20 a		

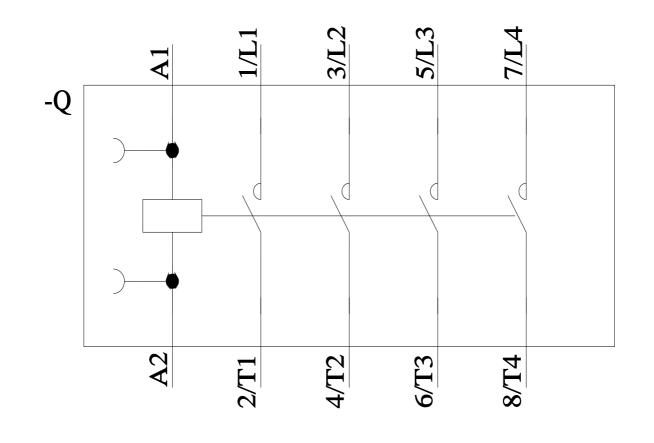
61508					
protection class IP on	the front according to	DIEC 60529 IP20			
touch protection on th	_		r-safe, for vertical contact	from the front	
ommunication/ Protoc	Ţ				
product function bus of		No			
ertificates/ approvals	Sommanication	110			
General Product Appr	oval				EMC
General i roddot Appi	ovai				
		<u>Confirmation</u>		EHC	RCM
Functional Safety/Safety of Ma- chinery	Declaration of Conf	formity	Test Certificates		Marine / Shipping
<u>Fype Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS
Marine / Shipping					
B U R E AU VERITAS		Lloyd's Register us	PRS	RINA	RMRS
other		Railway	Environment		
<u>Confirmation</u>		Vibration and Shock	Environmental Con- firmations		
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http://support.automatio		AXorder/default.aspx?lang= aracteristics, FAQs,)	en&mlfb=3RT2316-2AK60	2	
https://support.industry.s Image database (produ http://www.automation.s Characteristic: Trippin	siemens.com/cs/ww/en uct images, 2D dimen iemens.com/bilddb/cax g characteristics, I <sup>2</sup> t,	//ps/3RT2316-2AK60 sion drawings, 3D models <_de.aspx?mlfb=3RT2316-2		s, EPLAN macros,)	
Further characteristics					











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