SIEMENS

Data sheet

3RT2316-2BM40



contactor AC-1, 18 A, 400 V / 40 $^\circ\text{C},$ 4-pole, 220 V DC, spring-loaded terminal, size: S00

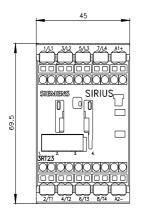
100 B.M. 182-	
product brand name	SIRIUS
product designation	Contactor
product type designation	3RT23
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
 auxiliary switch 	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	4.4 W
 at AC in hot operating state per pole 	1.1 W
 without load current share typical 	4 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of the auxiliary and control circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 KV
 of auxiliary circuit rated value 	6 kV
shock resistance at rectangular impulse	
• at DC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	30 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C
during 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	
 at AC-1 at 400 V at ambient temperature 40 °C rated 	18 A

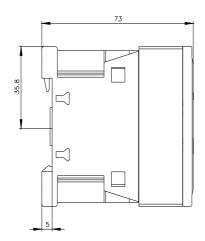
wite • af AC-1 - up to 680 V at mubert temperature 40 °C rated 18 A - up to 680 V at mubert temperature 60 °C rated 18 A • af AC-3 18 A - af 400 V rated value 0 A • af AC-4 at 400 V rated value 8.5 A • af AC-4 at 400 V rated value 8.5 A • af AC-4 at 400 V rated value 4.5 mm² • af AC-4 at 400 V rated value 4.5 mm² • af AC-4 at 400 V rated value 4.5 mm² • af AC-4 at 400 V rated value 4.5 mm² • af AC-4 at 400 V rated value 4.5 mm² • af AC-4 at 400 V rated value 4.5 mm² • af AC-4 at 400 V rated value 4.5 mm² • af AC-4 at 400 V rated value 4.5 mm² • af AC-4 at 400 V rated value 4.5 mm² • af AC-5 at 400 V rated value 4.5 mm² • af AC-6 at 400 V rated value 4.5 mm² • af AC-6 at 400 V rated value 4.5 mm² • af AC-6 at 400 V rated value 4.5 mm² • af AC-6 at 400 V rated value 4.5 mm² • af AC-6 at 400 V rated value 4.5 mm² • af AC-6 at 400 V rated value 4.5 mm² • af AC-6 at 400 V rated value 4.5 mm² • af AC-6 at 400 V rated value 4.5 mm² • af AC-6 at 400 V rated value 0.5 mm²		
- up to 800 V at moment empendure 40°C rated value - up to 800 V at moment empendure 80°C rated value * 41.C-3 - at 400 V rated value * 41.C-3 * 41.0-3 at 400 V rated value * 5.A * 41.C-3 at 400 V rated value * 5.A * 41.C-3 at 400 V rated value * 5.A * 41.C-3 at 400 V rated value * 41.C-3 at 400 V	value	
	• at AC-1	
value - at 400 V rated value - at 400 V rated value 0 A st AC-4 at 400 V rated value 0 A st AC-4 at 400 V rated value 0 A st AC-4 at 400 V rated value 0 A 2.5 mm ² 2.5 mm ²		18 A
in Ar-C-3 in Ar-C-4 at 400 V rated value 8.5 A in Ar-C-4 at 400 V rated value 8.5 A or entropy of V rated value 2.5 mm² or entropy of V rated value 4 kW • at Ar-C-5 at 400 V rated value 4 kW • at Ar-C-5 at 400 V rated value 4 kW • at Ar-C-5 at 400 V rated value 4 kW • at Ar-C-5 at 400 V rated value 4 kW • at Ar-C-5 at 400 V rated value 4 kW • at Ar-C-5 at 400 V rated value 4 kW • at Ar-C-5 at 400 V rated value 4 kW • at Ar-C-5 at 400 V rated value 4 kW • at Ar-C-5 at 400 V rated value 4 kW • initied to 1 s switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • initied value initied value initied value 0 km 4 value 4 kW • at DC- 100 00 th 0 km 4 value 4 kW • at dV value of the switch operating reservery current maximum Use minimum cross-section acc. to AC-1 rated value carted value carted value carted value carted value carted value carted value carted value carted value carted val		16 A
- i Al AC - 40 400 V rated value 8.5 Å generating power 2.6 mm² - i alt AC - 41 400 V rated value 4 kW - i alt AC - 41 400 V rated value 4 kW - i alt AC - 41 400 V rated value 4 kW - i alt AC - 41 400 V rated value 4 kW - i alt AC - 41 400 V rated value 4 kW - i alt AC - 41 400 V rated value 4 kW - i alt AC - 41 400 V rated value 4 kW - i alt AC - 41 400 V rated value 4 kW - i alt AC - 41 400 V rated value 4 kW - i alt AC - 41 400 V rated value 4 kW - i alt AC - 41 400 V rated value 4 kW - i alt AC - 41 400 V rated value 4 kW - i alt AC - 41 400 V rated value 4 kW - i alt AC - 41 400 V rated value 4 kW - i alt AC - 41 400 V rated value 4 kW - i alt AC - 41 400 V rated value 4 kW - i alt AC - 41 400 V rated value 4 kW - i alt AC - 41 400 V rated value 4 kW - o alt AC - 41 400 V rated value 4 kW - i alt AC - 41 400 V rated value 4 kW - o alt CC 5 switching at zero current maximum 10 000 1/h - o alt CC 10 000 1/h - 0 alt CC - o alt CC 10 000 1/h - o alt CC <		QΔ
minimum cross-section in main circuit at maximum AC-1 rated value 2.5 mm² operating power • 4 KV • at AC-3 at 400 V rated value 4 KV • at AC-3 at 400 V rated value 4 KV • at AC-3 at 400 V rated value 4 KV • at AC-3 at 400 V rated value 4 KV • at AC-3 at 400 V rated value 4 KV • at AC-3 at 400 V rated value 4 KV • at AC-3 at 400 V rated value 4 KV • at AC-3 at 400 V rated value 4 KV • at AC-3 at 400 V rated value 4 KV • at AC-3 at 400 V rated value 4 KV • at Initiat 50 is switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • initiat 40 as 00 so switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • at DC 1000 t/h 000 t/h operating frequency 1000 t/h 000 t/h • at DC 1000 t/h 000 t/h operating range factor control supply voltage rated value 0.8 • at DC 0.8 0.11 1 closing delay 0.100 ms 0.100 ms • at DC <td></td> <td></td>		
value operating prover e at ACS 31400 V redet value 4 KV • at ACS 41400 V redet value 4 KV • at ACS 41400 V redet value 4 KV • at ACS 41400 V redet value 4 KV • at ACS 41400 V redet value 4 KV • at ACS 41400 V redet value 4 KV • at ACS 41400 V redet value 4 KV • at ACS 41400 V redet value 4 KV • at ACS 41400 V redet value 4 KV • at ACS 41400 V redet value 4 KV • at ACS 41400 V redet value 0 KC - 1 radet value • limited to 10 s witching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • at DC 0 000 1 h 10 000 1 h • at DC 10 000 1 h 10 000 1 h • at DC 10 000 1 h 10 000 1 h • at DC 10 000 1 h 10 000 1 h • at DC 10 000 1 h 10 000 1 h • at DC 20 V - • at AC at at 0 A 0 A - • at AC at at 0 A 0 A - • at AC at at 0 A 0 A		
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• at AC-4 at 400 V rated value 4 kW short-time withstand current in cold operating state up to 0° C Use minimum cross-section acc. to AC-1 rated value • limited to 15 a switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • limited to 10 a switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • limited to 05 a switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • limited to 05 a switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • at DC 1000 1/h • ortod switching frequency • 1000 1/h • at DC 1000 1/h • orted value 20 V • operating frequency at AC-1 maximum 0.8 • initial value 1.1 • looding power of magnet coll at DC 4 W • at DC 30 100 ms • at DC 30 100 ms • at DC 2 • at DC 30 100 ms • at DC 2 • at DC <td< td=""><td>operating power</td><td></td></td<>	operating power	
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40 °C • Limited to 1 s switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • Limited to 1 s switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • Limited to 1 s switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • Limited to 3 s switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • Limited to 3 switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value • at DC 10 000 1/h • orthol security frequency 0 • at DC 10 000 1/h • orthol security frequency DC • trade value 20 V • operating frequency at AC-1 maximum 0.8 • full-scale value 0.8		4 kW
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Imited to 30 s switching at zero current maximum Ide minimum cross-section acc. to AC-1 rated value Iminet of 05 switching frequency at DC to 000 1/h t	 limited to 5 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum Use minimum cross-section acc. to AC-1 rated value no-load switching frequency 10000 1/h operating frequency at AC-1 maximum 1000 1/h Control circuit/ Control 1000 1/h Uppe of voltage of the control supply voltage DC control supply voltage at DC 220 V • indial value 0.8 • indial value 0.8 • full-scale value 1.1 closing delay 4W • indial value 0.8	C C	
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holding power of magnet coil at DC 4 W closing delay • at DC • at DC 30 100 ms opening delay • • at DC 7 13 ms arcing time 10 15 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit 10 15 ms number of NC contacts for auxiliary contacts • • attachable 2 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 G: 35 A (690 V, 100 kA) - 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: 10 A (690 V, 100 kA) if or short-circuit protection of the auxiliary switch required gG: 20 A (690 V, 100 kA) mounting position +/180" rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting </td <td>• full-scale value</td> <td>1.1</td>	• full-scale value	1.1
closing delay at DC 30 100 ms opening delay 13 ms arcing time 10 15 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit 15 ms number of NC contacts for auxiliary contacts 15 ms • attachable 2 number of NC contacts for auxiliary contacts 15 ms • attachable 2 number of NO contacts for auxiliary contacts 10 ms • attachable 2 statchable 2 statchable 2 standard function short circuit protection No design of the fuse link 16 ms • of rshort-circuit protection of the main circuit with type of coordination 1 required gG: 35 A (690 V, 100 kA) 9 Gi 10 A (690 V, 100 kA) • for short-circuit protection of the auxiliary switch required gGi 10 A (690 V, 100 kA) • for short-circuit protection of the auxiliary switch required gGi 10 A (690 V, 100 kA) Installation/ mounting/ dimensions */-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface side-by-side mounting	closing power of magnet coil at DC	4 W
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• side-by-side mounting Yes height 70 mm width 45 mm depth 73 mm	mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
height 70 mm width 45 mm depth 73 mm	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
width 45 mm depth 73 mm	 side-by-side mounting 	Yes
depth 73 mm		
· ·		
required spacing		73 mm
	required spacing	

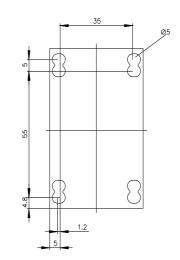
 with side-by-side mounting 	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
 for grounded parts 	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
 for live parts 	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
 for main current circuit 	spring-loaded terminals
 for auxiliary and control circuit 	spring-loaded terminals
 at contactor for auxiliary contacts 	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (0.5 4 mm ²)
 solid or stranded 	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
connectable conductor cross-section for main contacts	
• solid	0.5 4 mm²
 solid or stranded 	0.5 4 mm²
stranded	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm ²
 finely stranded without core end processing 	0.5 2.5 mm ²
connectable conductor cross-section for auxiliary contacts	
 solid or stranded 	0.5 4 mm ²
 finely stranded with core end processing 	0.5 2.5 mm ²
 finely stranded without core end processing 	0.5 2.5 mm ²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid	2x (0.5 2.5 mm²)
— solid or stranded	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
 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
 for auxiliary contacts 	20 12
Safety 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 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Communication/ Protocol	
product function bus communication	No
Certificates/ approvals	
General Product Approval	EMC

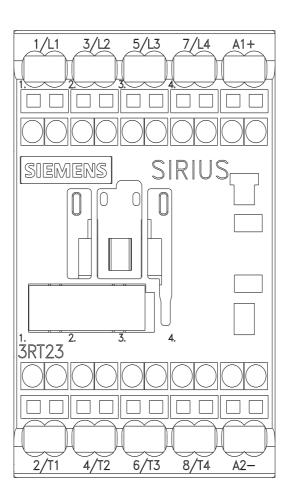
(S) M		<u>Confirmation</u>		EHC	RCM		
Functional Safety/Safety of Ma- chinery	Declaration of Confor	mity	Test Certificates		Marine / Shipping		
<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS		
Marine / Shipping							
B UREAU VERITAS		Lloyd's Register us	PRS	RINA	RMRS		
other		Railway	Dangerous Good	Environment			
<u>Confirmation</u>	UDE VDE	Vibration and Shock	Transport Information	Environmental Con- firmations			
Further information Siemens has decided t	to exit the Russian mar	ket (see here).					
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging							
https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2316-2BM40							
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2316-2BM40⟨=en							
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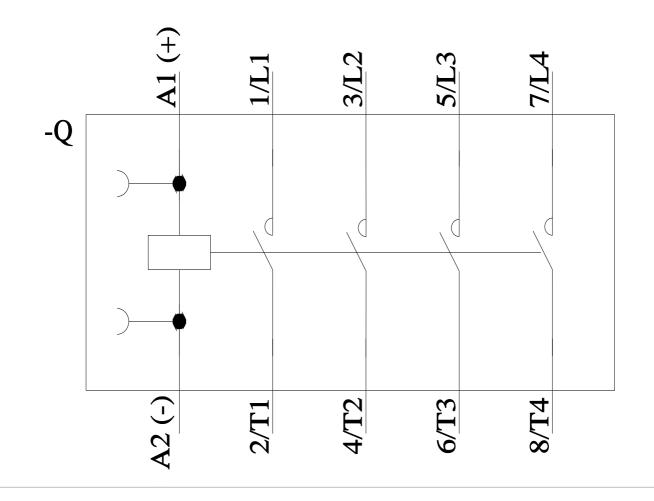
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3 -3RT2316-2BM40&objecttype=14&gridview=view1











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