SIEMENS

Data sheet

3RT2035-1NB34



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 20-33 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S2, removable auxiliary switch

product brand name	SIRIUS			
product designation	Power contactor			
product type designation	3RT2			
General technical data				
size of contactor	S2			
product extension				
 function module for communication 	No			
 auxiliary switch 	No			
power loss [W] for rated value of the current				
 at AC in hot operating state 	6.6 W			
 at AC in hot operating state per pole 	2.2 W			
 without load current share typical 	2 W			
insulation voltage				
 of main circuit with degree of pollution 3 rated value 	690 V			
 of auxiliary 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			
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V			
shock resistance at rectangular impulse				
• at AC	6.1g / 5 ms, 3.7g / 10 ms			
• at DC	6.1g / 5 ms, 3.7g / 10 ms			
shock resistance with sine pulse				
• at AC	9.6g / 5 ms, 5.8g / 10 ms			
● at DC	9.6g / 5 ms, 5.8g / 10 ms			
mechanical service life (operating cycles)				
 of contactor typical 	10 000 000			
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000			
 of the contactor with added auxiliary switch block typical 	10 000 000			
reference code according to IEC 81346-2	Q			
Substance Prohibitance (Date)	10/01/2014			
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 %			

ain circuit			
number of poles for main current circuit	3		
number of NO contacts for main contacts	3		
operating voltage			
 at AC-3 rated value maximum 	690 V		
 at AC-3e rated value maximum 	690 V		
operational current			
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	60 A		
• at AC-1			
— up to 690 V at ambient temperature 40 °C rated value	60 A		
— up to 690 V at ambient temperature 60 °C rated value	55 A		
• at AC-3			
— at 400 V rated value	41 A		
— at 500 V rated value	41 A		
— at 690 V rated value	24 A		
• at AC-3e			
— at 400 V rated value	41 A		
- at 500 V rated value	41 A		
- at 690 V rated value	24 A 25 A		
 at AC-4 at 400 V rated value at AC-5a up to 690 V rated value 	35 A 52.8 A		
at AC-5b up to 400 V rated value	33.2 A		
• at AC-5b up to 400 v rated value • at AC-6a	55.2 A		
 up to 230 V for current peak value n=20 rated value 	36.5 A		
— up to 200 V for current peak value n=20 rated value	36.5 A		
— up to 500 V for current peak value n=20 rated value	36.5 A		
— up to 690 V for current peak value n=20 rated value	24 A		
• at AC-6a	277		
— up to 230 V for current peak value n=30 rated value	24.2 A		
— up to 400 V for current peak value n=30 rated value	24.2 A		
— up to 500 V for current peak value n=30 rated value	24.2 A		
— up to 690 V for current peak value n=30 rated value	24 A		
minimum cross-section in main circuit at maximum AC-1 rated value	16 mm ²		
operational current for approx. 200000 operating cycles at AC-4			
at 400 V rated value	22 A		
• at 690 V rated value	18.5 A		
operational current			
• at 1 current path at DC-1			
— at 24 V rated value	55 A		
— at 60 V rated value	23 A		
— at 110 V rated value	4.5 A		
— at 220 V rated value	1 A		
— at 440 V rated value	0.4 A		
— at 600 V rated value	0.25 A		
 with 2 current paths in series at DC-1 			
— at 24 V rated value	55 A		
— at 60 V rated value	45 A		
— at 110 V rated value	45 A		
— at 220 V rated value	5 A		
— at 440 V rated value	1 A		
— at 600 V rated value	0.8 A		
 with 3 current paths in series at DC-1 			
— at 24 V rated value	55 A		
— at 60 V rated value	55 A		
— at 110 V rated value	55 A		
— at 220 V rated value	45 A		
— at 440 V rated value	2.9 A		

— at 600 V rated value	1.4 A				
 at 1 current path at DC-3 at DC-5 					
— at 24 V rated value	35 A				
— at 60 V rated value	6 A				
— at 220 V rated value	1 A				
— at 440 V rated value	0.1 A				
— at 600 V rated value	0.06 A				
 with 2 current paths in series at DC-3 at DC-5 					
— at 24 V rated value	55 A				
— at 60 V rated value	45 A				
— at 110 V rated value	25 A				
— at 220 V rated value	5 A				
— at 440 V rated value	0.27 A				
— at 600 V rated value	0.16 A				
 with 3 current paths in series at DC-3 at DC-5 					
— at 24 V rated value	55 A				
— at 60 V rated value	55 A				
— at 110 V rated value	55 A				
— at 220 V rated value	25 A				
— at 440 V rated value	0.6 A				
— at 600 V rated value	0.35 A				
operating power					
 at AC-2 at 400 V rated value 	18.5 kW				
• at AC-3					
— at 230 V rated value	11 kW				
— at 400 V rated value	18.5 kW				
— at 500 V rated value	22 kW				
— at 690 V rated value	22 kW				
• at AC-3e					
— at 230 V rated value	11 kW				
— at 400 V rated value	18.5 kW				
— at 500 V rated value	22 kW				
— at 690 V rated value	22 kW				
operating power for approx. 200000 operating cycles at AC- 4					
at 400 V rated value	11.6 kW				
at 690 V rated value	16.8 kW				
operating apparent power at AC-6a					
 up to 230 V for current peak value n=20 rated value 	14.5 kVA				
 up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value 	14.5 kVA 25.2 kVA				
• up to 400 V for current peak value n=20 rated value					
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value 	25.2 kVA 31.6 kVA				
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● at AC-3e maximum	1 000 1/b			
• at AC-3 maximum • at AC-4 maximum	1 000 1/h 200 1/h			
at AC-4 maximum Control circuit/ Control	300 1/h			
type of voltage of the control supply voltage	AC/DC			
control supply voltage at AC	20 22.1/			
• at 50 Hz rated value	20 33 V			
at 60 Hz rated value	20 33 V			
control supply voltage at DC				
rated value	20 33 V			
operating range factor control supply voltage rated value of magnet coil at DC				
initial value	0.8			
full-scale value	1.1			
operating range factor control supply voltage rated value of magnet coil at AC				
• at 50 Hz	0.8 1.1			
• at 50 Hz	0.8 1.1			
design of the surge suppressor	with varistor			
inrush current peak	3 A			
•				
duration of inrush current peak locked-rotor current mean value	50 μs 1 A			
	26A			
locked-rotor current peak	2.6 A 230 ms			
duration of locked-rotor current				
holding current mean value	40 mA			
apparent pick-up power of magnet coil at AC • at 50 Hz	40 VA			
at 60 Hz	40 VA			
apparent holding power of magnet coil at AC	2)//			
• at 50 Hz	2 VA			
• at 60 Hz	2 VA			
closing power of magnet coil at DC	23 W			
holding power of magnet coil at DC	1 W			
closing delay	25 110 mm			
• at AC	35 110 ms			
• at DC	35 110 ms			
opening delay	20 EE ma			
• at AC	30 55 ms			
• at DC	30 55 ms			
arcing time	10 20 ms			
control version of the switch operating mechanism	Standard A1 - A2			
Auxiliary circuit				
number of NC contacts for auxiliary contacts instantaneous contact	2			
number of NO contacts for auxiliary contacts instantaneous contact	2			
operational current at AC-12 maximum	10 A			
operational current at AC-15				
• at 230 V rated value	6 A			
• at 400 V rated value	3 A			
● at 500 V rated value	2 A			
• at 690 V rated value	1 A			
operational current at DC-12				
• at 24 V rated value	10 A			
• at 48 V rated value	6 A			
• at 60 V rated value	6 A			
• at 110 V rated value	3 A			
• at 125 V rated value	2 A			
• at 220 V rated value	1 A			
• at 600 V rated value	0.15 A			
operational current at DC-13				
• at 24 V rated value	6 A			

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at 60 V rated value	2 A				
at 110 V rated value	1A				
• at 125 V rated value	0.9 A				
at 220 V rated value	0.3 A				
at 600 V rated value	0.1 A				
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)				
UL/CSA ratings					
full-load current (FLA) for 3-phase AC motor					
• at 480 V rated value	40 A				
at 600 V rated value	41 A				
yielded mechanical performance [hp]					
for single-phase AC motor					
— at 110/120 V rated value	3 hp				
— at 230 V rated value	7.5 hp				
• for 3-phase AC motor					
— at 200/208 V rated value	10 hp				
— at 220/230 V rated value	15 hp				
— at 460/480 V rated value	30 hp				
— at 575/600 V rated value	40 hp				
contact rating of auxiliary contacts according to UL	A600 / Q600				
Short-circuit protection					
design of the fuse link					
 for short-circuit protection of the main circuit 					
— with type of coordination 1 required	gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)				
 — with type of assignment 2 required 	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)				
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)				
Installation/ mounting/ dimensions					
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and				
	backward by +/- 22.5° on vertical mounting surface				
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715				
side-by-side mounting	Yes				
height	114 mm				
width	55 mm				
depth	174 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 	screw-type terminals				
 for auxiliary and control circuit 	screw-type terminals				
 at contactor for auxiliary contacts 	Screw-type terminals				
of magnet coil					
type of connectable conductor cross-sections for main contacts	Screw-type terminals				
type of connectable conductor cross-sections for main contacts	Screw-type terminals				
solid or stranded	Screw-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²)				

 finely stranded 	I with core end processing		1 35 mm²				
connectable condu	ctor cross-section for auxi	liary contacts					
 solid or strand 	ed		0.5 2.5 m	0.5 2.5 mm²			
 finely stranded 	I with core end processing		0.5 2.5 m	0.5 2.5 mm²			
type of connectable	conductor cross-sections	;					
 for auxiliary co 	ontacts						
— solid or s	tranded		2x (0.5 1.	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
— finely stra	anded with core end process	ing	2x (0.5 1.	5 mm²), 2x (0.75	5 2.5 mm²)		
 for AWG cable 	es for auxiliary contacts		2x (20 16), 2x (18 14)			
AWG number as co section	AWG number as coded connectable conductor cross						
 for main contain 	cts		18 1				
 for auxiliary co 	ontacts		20 14				
Safety related data							
product function							
	according to IEC 60947-4-1		Yes				
	en operation according to IEC	60947-5-1	No				
· · ·	demand rate according to SN		1 000 000				
proportion of dange	Ŭ	101020	1 000 000				
•		20	40 %				
	 with low demand rate according to SN 31920 with high demand rate according to SN 31920 		40 % 73 %				
Ű	ů –		100 FIT				
failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508		20 a					
	on the front according to I	EC 60529	IP20				
-	protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front				
suitability for use		00020	inger-sale, for vertical contact from the front				
safety-related switching OFF		Yes					
Certificates/ approval			103				
				_			
General Product Ap	oproval						
	<u>Confirmation</u>		1	Ű	KC	EHC	
EMC	Functional Safety/Safety of Ma- chinery	Declaration of	Conformity		Test Certificates		
RCM	<u>Type Examination Cer-</u> tificate	UK CA		CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	
Marine / Shipping							
ABS	BUREAU			Lloyd's Register uis	PRS	RINA	

 Marine / Shipping
 other
 Railway
 Dangerous Good
 Environment

 Confirmation
 Confirmation
 Vibration and Shock
 Transport Information
 Environmental Confirmations

Further information

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=3RT2035-1NB34

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-1NB34

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1NB34

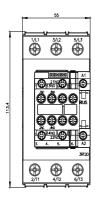
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

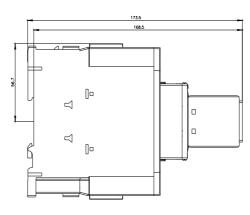
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2035-1NB34&lang=en

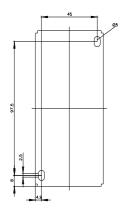
Characteristic: Tripping characteristics, I²t, Let-through current

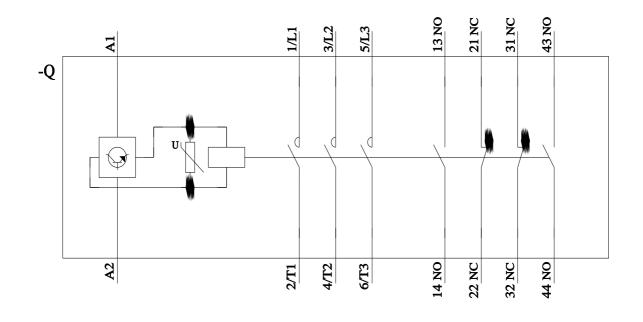
https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1NB34/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-1NB34&objecttype=14&gridview=view1









last modified:

2/10/2023 🖸