SIEMENS

Data sheet 3RT2026-1BA40



power contactor, AC-3 25 A, 11 kW / 400 V 1 NO + 1 NC, 12 V DC, 3-pole, Size S0 screw terminal

product type designation product type designation General technical data size of contactor product extension • function module for communication • auxiliary switch power loss [W] for rated value of the current at AC in hot operating state • per pole power loss [W] for rated value of the current without load current share typical insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • of main circuit rated value • of main circuit rated value • of main circuit rated value • of auxiliary circuit rated value • of auxiliary circuit rated value • of auxiliary circuit rated value • of auxiliary circuit rated value • of auxiliary circuit rated value • of auxiliary circuit rated value 10 of y of	
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• function module for communication • auxiliary switch power loss [W] for rated value of the current at AC in hot operating state • per pole power loss [W] for rated value of the current without load current share typical insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance • of main circuit rated value of auxiliary circuit rated value auxiliary circuit rated value for auxiliary circuit rated value auxiliary circuit rated value for auxiliary circuit rated value auxiliary circuit rated value for auxiliary circuit rated value for auxiliary circuit rated value auxiliary circuit rated value for auxiliar	
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mechanical service life (switching cycles) • of contactor typical 10 000 000	
• of contactor typical 10 000 000	
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 of the contactor with added electronically optimized auxiliary switch block typical 	
 of the contactor with added auxiliary switch block typical 10 000 000 	
reference code acc. to IEC 81346-2 Q	
Substance Prohibitance (Date) 01.10.2009	
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 acc. to IEC 60068-2-30 95 %	

maximum	
Main 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
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C 	40 A
rated value	
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	40 A
 up to 690 V at ambient temperature 60 °C rated value 	35 A
• at AC-3	
— at 400 V rated value	25 A
— at 500 V rated value	18 A
— at 690 V rated value	13 A
 at AC-4 at 400 V rated value 	15.5 A
 at AC-5a up to 690 V rated value 	35.2 A
at AC-5b up to 400 V rated valueat AC-6a	20.7 A
 up to 230 V for current peak value n=20 rated value 	20.2 A
 up to 400 V for current peak value n=20 rated value 	20.2 A
 up to 500 V for current peak value n=20 rated value 	20.2 A
 up to 690 V for current peak value n=20 rated value 	12.9 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	13.5 A
— up to 400 V for current peak value n=30 rated value	13.5 A
— up to 500 V for current peak value n=30 rated value	13.5 A
— up to 690 V for current peak value n=30 rated value	13 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating	10 mm ²
cycles at AC-4	
at 400 V rated value	9 A
• at 690 V rated value	9 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 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	35 A
— at 110 V rated value	35 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	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
at 000 v rated value	1.171

• at 1 current path at DC-3 at DC-5			
— at 24 V rated value	20 A		
— at 110 V rated value	2.5 A		
— at 220 V rated value	1 A		
— at 440 V rated value	0.09 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	35 A		
— at 110 V rated value	15 A		
— at 220 V rated value	3 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	35 A		
— at 110 V rated value	35 A		
— at 220 V rated value	10 A		
— at 440 V rated value	0.6 A		
— at 600 V rated value	0.6 A		
operating power			
 at AC-2 at 400 V rated value 	11 kW		
• at AC-3			
— at 230 V rated value	5.5 kW		
— at 400 V rated value	11 kW		
— at 500 V rated value	11 kW		
— at 690 V rated value	11 kW		
operating power for approx. 200000 operating cycles at AC-4			
• at 400 V rated value	4.4 kW		
at 400 V rated value at 690 V rated value	7.7 kW		
operating apparent power at AC-6a	I.I NVV		
• up to 230 V for current peak value n=20 rated value	8 kV·A		
• up to 400 V for current peak value n=20 rated value	13.9 kV·A		
• up to 500 V for current peak value n=20 rated value	17.4 kV·A		
• up to 690 V for current peak value n=20 rated value	15.4 kV·A		
operating apparent power at AC-6a	10.7 KV A		
• up to 230 V for current peak value n=30 rated value	5.3 kV·A		
up to 400 V for current peak value n=30 rated value	9.3 kV·A		
• up to 500 V for current peak value n=30 rated value	11.6 kV·A		
up to 690 V for current peak value n=30 rated value	15.5 kV·A		
short-time withstand current in cold operating state	10.0 RV A		
up to 40 °C			
 limited to 1 s switching at zero current maximum 	375 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 5 s switching at zero current maximum 	299 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 10 s switching at zero current maximum 	200 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 30 s switching at zero current maximum 	128 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 60 s switching at zero current maximum 	106 A; Use minimum cross-section acc. to AC-1 rated value		
no-load switching frequency			
• at AC	5 000 1/h		
• at DC	1 500 1/h		
operating frequency			
• at AC-1 maximum	1 000 1/h		
• at AC-2 maximum	750 1/h		
• at AC-3 maximum	750 1/h		
• at AC-4 maximum	250 1/h		
Control circuit/ Control			
type of voltage of the control supply voltage	DC		
control supply voltage at DC			
• rated value	12 V		
operating range factor control supply voltage rated			
value of magnet coil at DC			
initial value	0.8		

full-scale value	1.1		
closing power of magnet coil at DC	5.9 W		
holding power of magnet coil at DC	5.9 W		
closing delay			
• at DC	50 170 ms		
opening delay			
• at DC	15 17.5 ms		
arcing time	10 10 ms		
control version of the switch operating mechanism	Standard A1 - A2		
Auxiliary circuit			
number of NC contacts for auxiliary contacts	1		
instantaneous contact			
number of NO contacts for auxiliary contacts instantaneous contact	1		
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		
● 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	10 A		
at 48 V rated value	2 A		
at 60 V rated value	2 A		
at 110 V rated value	1 A		
at 125 V rated value	0.3 A		
at 220 V rated value	0.3 A		
at 600 V rated value	0.3 A		
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)		
UL/CSA ratings	radicy containing part too minion (1.1.1)		
full-load current (FLA) for 3-phase AC motor			
at 480 V rated value	21 A		
at 600 V rated value	22 A		
yielded mechanical performance [hp]			
for single-phase AC motor			
— at 110/120 V rated value	2 hp		
— at 110/120 virated value — at 230 V rated value			
	3 hp		
• for 3-phase AC motor	5 hp		
— at 200/208 V rated value	5 hp		
— at 220/230 V rated value	7.5 hp		
— at 460/480 V rated value	15 hp		
— at 575/600 V rated value	20 hp		
contact rating of auxiliary contacts according to UL	A600 / P600		
Short-circuit protection			
design of the fuse link			
 for short-circuit protection of the main circuit 			
 — with type of coordination 1 required 	gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA)		
— with type of assignment 2 required	gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (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 standard mounting rail		
• side-by-side mounting	according to DIN EN 60715 Yes		
height	85 mm		
width	45 mm		
depth	107 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 screw-type terminals		
at contactor for auxiliary contacts of magnet axil.	Screw-type terminals		
of magnet coil type of connectable conductor cross-sections	Screw-type terminals		
• for main contacts			
— solid	2v (1 2.5 mm²) 2v (2.5 10 mm²)		
Solid Solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)		
finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²		
at AWG cables for main contacts	2x (1 2.5 minr), 2x (2.5 6 minr), 1x 10 minr 2x (16 12), 2x (14 8)		
connectable conductor cross-section for main	2 \ (10 12), 2 \ (14 0)		
contacts			
• solid	1 10 mm²		
• stranded	1 10 mm²		
 finely stranded with core end processing 	1 10 mm²		
connectable conductor cross-section for auxiliary			
contacts			
solid or stranded	0.5 2.5 mm ²		
 finely stranded with core end processing 	0.5 2.5 mm²		
type of connectable conductor cross-sections			
for auxiliary contacts			
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 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	2x (20 16), 2x (18 14)		
AWG number as coded connectable conductor cross section			
for main contacts	16 8		
	20 14		
for auxiliary contacts	20 14		
for auxiliary contacts Safety related data	20 14		
·	450 000		
Safety related data			
Safety related data B10 value with high demand rate acc. to SN 31920			
Bafety related data B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures	450 000		
Bafety related data B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures • with low demand rate acc. to SN 31920	450 000 40 %		

IEC 61508		
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	
suitability for use		
 safety-related switching on 	Yes	
 safety-related switching OFF 	Yes	
Cartificates/approvals		

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



EMC Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
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Type Examination Certificate



UK Declaration of Conformity Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













other Dangerous Good

Confirmation



<u>Transport Information</u>

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=3RT2026-1BA40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2026-1BA40

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1BA40

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

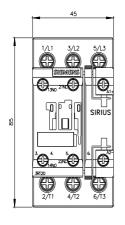
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2026-1BA40\&lang=en}}$

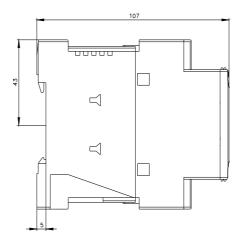
Characteristic: Tripping characteristics, I2t, Let-through current

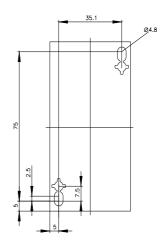
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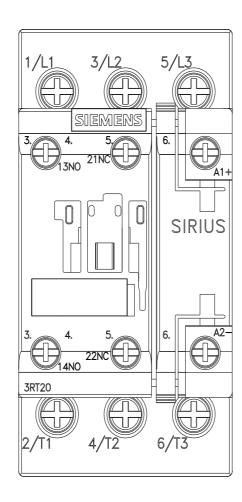
Further characteristics (e.g. electrical endurance, switching frequency)

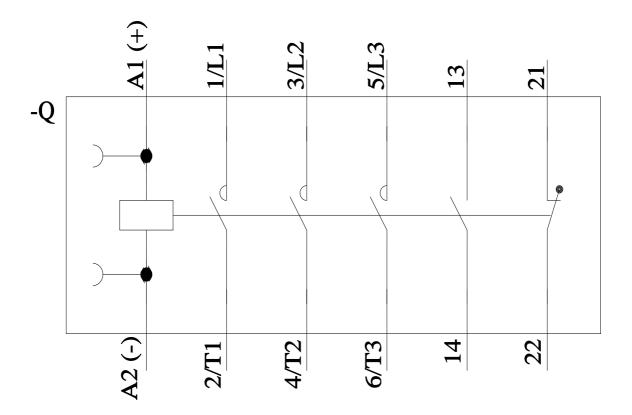
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-1BA40&objecttype=14&gridview=view1











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