

































Figure similar

Power contactor, AC-3 17 A, 7.5 kW / 400 V 24 V AC, 50/60 Hz 3-pole,
Size S0 Screw terminal !!! Phased-out product !!! Successor is SIRIUS
3RT2 Preferred successor type is >>3RT2025-1AC20<<

product brand name	SIRIUS
product designation	power contactor
General technical data	
size of contactor	S0
degree of pollution	3
protection class IP	
• on the front	IP20
• of the terminal	IP00
mechanical service life (switching 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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.07.2006 00:00:00
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
• ambient temperature during operation	-25 ... +60 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	40 A
• at AC-1	
— up to 690 V at ambient temperature 40 °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	17 A
• at AC-4 at 400 V rated value	15.5 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A

<ul style="list-style-type: none"> — at 110 V rated value 	4.5 A
<ul style="list-style-type: none"> • with 2 current paths in series at DC-1 <ul style="list-style-type: none"> — at 24 V rated value — at 110 V rated value 	35 A 35 A
<ul style="list-style-type: none"> • with 3 current paths in series at DC-1 <ul style="list-style-type: none"> — at 24 V rated value — at 110 V rated value 	35 A 35 A
operational current	
<ul style="list-style-type: none"> • at 1 current path at DC-3 at DC-5 <ul style="list-style-type: none"> — at 24 V rated value — at 110 V rated value 	20 A 2.5 A
<ul style="list-style-type: none"> • with 2 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> — at 24 V rated value — at 110 V rated value 	35 A 15 A
<ul style="list-style-type: none"> • with 3 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> — at 24 V rated value — at 110 V rated value 	35 A 35 A
operating power	
<ul style="list-style-type: none"> • at AC-1 <ul style="list-style-type: none"> — at 400 V rated value 	23 kW
<ul style="list-style-type: none"> • at AC-2 at 400 V rated value 	7.5 kW
<ul style="list-style-type: none"> • at AC-3 <ul style="list-style-type: none"> — at 400 V rated value — at 500 V rated value — at 690 V rated value 	7.5 kW 10 kW 11 kW
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
<ul style="list-style-type: none"> • at 50 Hz rated value 	24 V
<ul style="list-style-type: none"> • at 60 Hz rated value 	24 V
control supply voltage frequency	
<ul style="list-style-type: none"> • 1 rated value 	50 Hz
<ul style="list-style-type: none"> • 2 rated value 	60 Hz
operating range factor control supply voltage rated value of magnet coil at AC	
<ul style="list-style-type: none"> • at 50 Hz 	0.8 ... 1.1
<ul style="list-style-type: none"> • at 60 Hz 	0.85 ... 1.1
apparent pick-up power of magnet coil at AC	64 V·A
inductive power factor with closing power of the coil	0.72
apparent holding power of magnet coil at AC	8.4 V·A
inductive power factor with the holding power of the coil	0.24
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	0
number of NO contacts for auxiliary contacts instantaneous contact	0
operational current at AC-12 maximum	10 A
operational current at AC-15	
<ul style="list-style-type: none"> • at 230 V rated value 	6 A
<ul style="list-style-type: none"> • at 400 V rated value 	3 A
operational current at DC-12	
<ul style="list-style-type: none"> • at 60 V rated value 	6 A
<ul style="list-style-type: none"> • at 110 V rated value 	3 A
<ul style="list-style-type: none"> • at 220 V rated value 	1 A
operational current at DC-13	
<ul style="list-style-type: none"> • at 24 V rated value 	10 A
<ul style="list-style-type: none"> • at 60 V rated value 	2 A
<ul style="list-style-type: none"> • at 110 V rated value 	1 A

• at 220 V rated value	0.3 A				
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)				
Short-circuit protection					
design of the fuse link <ul style="list-style-type: none">• for short-circuit protection of the main circuit<ul style="list-style-type: none">— with type of coordination 1 required— with type of assignment 2 required• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 63 A fuse gL/gG: 25 A fuse gL/gG: 10 A				
Installation/ mounting/ dimensions					
fastening method <ul style="list-style-type: none">• side-by-side mounting	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes				
height	85 mm				
width	45 mm				
depth	91 mm				
required spacing for grounded parts at the side	6 mm				
Connections/ Terminals					
type of electrical connection <ul style="list-style-type: none">• for main current circuit• for auxiliary and control circuit	screw-type terminals screw-type terminals				
type of connectable conductor cross-sections <ul style="list-style-type: none">• for main contacts<ul style="list-style-type: none">— solid— solid or stranded— finely stranded with core end processing• at AWG cables for main contacts	2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), max. 2x 10 mm² 2x (1 ... 2,5 mm²), 2x (2,5 ... 6 mm²), max. 2x 10 mm² 2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²) 2x (16 ... 12), 2x (14 ... 10), 1x 8				
type of connectable conductor cross-sections <ul style="list-style-type: none">• for auxiliary contacts<ul style="list-style-type: none">— solid— finely stranded with core end processing• at AWG cables for auxiliary contacts	2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²) 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) 2x (20 ... 16), 2x (18 ... 14), 1x 12				
Certificates/ approvals					
<table><tr><td>General Product Approval</td><td>EMC</td><td>Declaration of Conformity</td></tr><tr><td><div> CSA</div><div> UL</div><div></div><div> RCM</div><div> EG-Konf.</div><div>Miscellaneous</div></td></tr></table>		General Product Approval	EMC	Declaration of Conformity	<div> CSA</div> <div> UL</div> <div></div> <div> RCM</div> <div> EG-Konf.</div> <div>Miscellaneous</div>
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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=3RT1025-1AC20>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1025-1AC20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1025-1AC20>

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

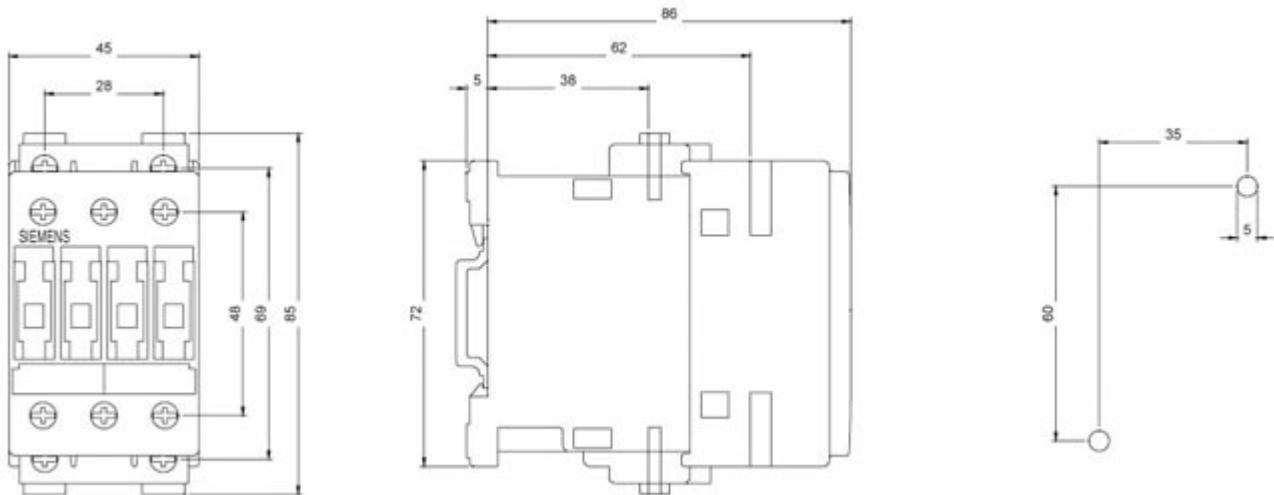
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1025-1AC20&lang=en

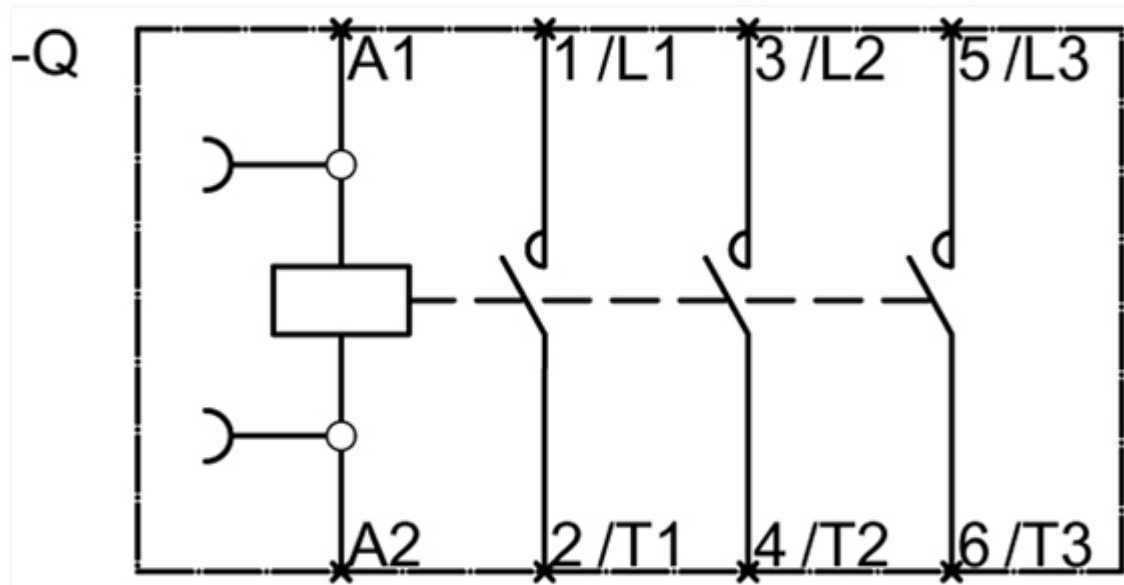
Characteristic: Tripping characteristics, I^2t , Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1025-1AC20/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1025-1AC20&objecttype=14&gridview=view1>





last modified:

2/28/2021 [🔗](#)