## SIEMENS

## Data sheet

## 3RT2035-1AC20



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 1 NO + 1 NC, 24 V AC, 50 / 60 Hz, 3-pole, screw terminal

product brand name         SIRIUS           product designation         SRT2           Central technical data         size of contactor           size of contactor         S2           product stype designation         No           • auxiliary switch         Yes           • out also in hot operating state er pole         5.2 W           • at AC in hot operating state per pole         2.2 W           • without load current share typical         17.2 W           insultary circuit with degree of pollution 3 rated value         690 V           • of main circuit with degree of pollution 3 rated value         64 KV           • of main circuit with degree of pollution 3 rated value         64 KV           • of main circuit with degree of pollution between coll and main contacts according to EN 6097-1         400 V           • of main circuit with degree of pollution between coll and main contacts according to EN 6097-1         400 V           • of auxiliary circuit rated value         6 kV           • at AC         11.8g / 5 ms, 7.4g / 10 ms           • at AC         10 000 000           • of the contactor with added electronically optimized auxiliary switch block typical         10 000 000           • of the contactor with added electronically optimized auxiliary switch block typical         10 000 000           • of the contactor with added	N/2 6/15																																																																												
product type designation         3RT2           General technical data	product brand name	SIRIUS																																																																											
General technical data         size of contactor       S2         product extension       No         • function module for communication       No         • auxiliary switch       Yes         power loss [W] for rated value of the current       6.6 W         • at AC in hot operating state       6.6 W         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit rated value       64 KV         • of auxiliary circuit rated value       64 KV         • of auxiliary circuit rated value       64 V         • at AC       11.8g / 5 ms, 7.4g / 10 ms         mechanical service life (operating cycles)       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000	product designation	Power contactor																																																																											
size of contactor     S2       product extension     No       • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     6.6 W       • at AC in hot operating state per pole     2.2 W       • without load current share typical     17.2 W       insulation voltage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit rated value     6 kV       • of auxiliary science at rectangular impulse     6 kV       • at AC     11.8g / 5 ms, 7.4g / 10 ms       shock resistance with sine pulse     10 000 000       • at AC     10 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     2000 m       mistallation altitude at h	product type designation	3RT2																																																																											
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Vshock resistance at rectangular impulse • at AC11.8g / 5 ms, 7.4g / 10 msshock resistance with sine pulse • at AC18.5g / 5 ms, 11.6g / 10 mse at AC18.5g / 5 ms, 11.6g / 10 msmechanical service life (operating cycles) • of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2 Substance Prohibitance (Date)QInstallation altitude at height above sea level maximum ambient temperature2 000 m• during operation • during storage-25 +60 °C• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	<ul> <li>of main circuit rated value</li> </ul>	6 kV	coil and main contacts according to EN 60947-1         shock resistance at rectangular impulse         • at AC       11.8g / 5 ms, 7.4g / 10 ms         shock resistance with sine pulse         • at AC       18.5g / 5 ms, 11.6g / 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         • 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       2 000 m         installation altitude at height above sea level maximum aubient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity minimum       10 %	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV	• at AC       11.8g / 5 ms, 7.4g / 10 ms         shock resistance with sine pulse       18.5g / 5 ms, 11.6g / 10 ms         • at AC       18.5g / 5 ms, 11.6g / 10 ms         mechanical service life (operating cycles)       10 000 000         • of contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • 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       2 000 m         installation altitude at height above sea level maximum atming operation       -25 +60 °C         • during operation       -25 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %		400 V	shock resistance with sine pulse       at AC         • at AC       18.5g / 5 ms, 11.6g / 10 ms         mechanical service life (operating cycles)       0 000 000         • 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         • 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       2 000 m         installation altitude at height above sea level maximum eluring operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %	shock resistance at rectangular impulse		• at AC18.5g / 5 ms, 11.6g / 10 msmechanical service life (operating cycles)10 000 000• of contactor typical10 000 000• of the contactor with added electronically 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<li>maximum</li> </ul>	• at AC	18.5g / 5 ms, 11.6g / 10 ms	<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>reference code according to IEC 81346-2</li> <li>Q</li> <li>Substance Prohibitance (Date)</li> <li>10/01/2014</li> <li>Ambient conditions</li> <li>2 000 m</li> <li>ambient temperature         <ul> <li>during operation</li> <li>-25 +60 °C</li> <li>during storage</li> <li>-55 +80 °C</li> </ul> </li> <li>relative humidity minimum         <ul> <li>10 %</li> <li>95 %</li> </ul> </li> </ul>	mechanical service life (operating cycles)		auxiliary switch block typical <ul> <li>of the contactor with added auxiliary switch block typical</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>10/01/2014</li> </ul> <ul> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>4 during operation</li> <li>-25 +60 °C</li> <li>-55 +80 °C</li> </ul> <ul> <li>relative humidity minimum</li> <li>10 %</li> <li>95 %</li> <li>maximum</li> </ul> <ul> <li>auxiliary switch block typical</li> <li>auxiliary switch block t</li></ul>		10 000 000	typicalreference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2014Ambient conditions2 000 minstallation altitude at height above sea level maximum ambient temperature • during operation • during storage2 000 mrelative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %		5 000 000	Substance Prohibitance (Date)       10/01/2014         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • 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       95 %	5	10 000 000	Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • 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       95 %	reference code according to IEC 81346-2	Q	installation altitude at height above sea level maximum2 000 mambient temperature-25 +60 °C• during operation-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	Substance Prohibitance (Date)	10/01/2014	ambient temperature       -25 +60 °C         • 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       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shock resistance with sine pulse       at AC         • at AC       18.5g / 5 ms, 11.6g / 10 ms         mechanical service life (operating cycles)       0 000 000         • 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         • 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       2 000 m         installation altitude at height above sea level maximum eluring operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %	shock resistance at rectangular impulse																																																																												
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Main circuit		95 %																																																																											
	Main circuit																																																																												

number of poles for main current circuit	3		
number of NO contacts for main contacts	3		
operating voltage			
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V		
<ul> <li>at AC-3e rated value maximum</li> </ul>			
operational current			
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C</li> </ul>	60 A		
rated value			
• 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	55 A		
rated value	33 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		
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	35 A		
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	52.8 A		
• at AC-5b up to 400 V rated value	33.2 A		
• at AC-6a			
<ul> <li>— up to 230 V for current peak value n=20 rated</li> </ul>	36.5 A		
value			
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>	36.5 A		
— up to 500 V for current peak value n=20 rated	36.5 A		
value			
<ul> <li>— up to 690 V for current peak value n=20 rated value</li> </ul>	24 A		
• at AC-6a			
— up to 230 V for current peak value n=30 rated	24.2 A		
value			
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	24.2 A		
— up to 500 V for current peak value n=30 rated	24.2 A		
value			
<ul> <li>— up to 690 V for current peak value n=30 rated value</li> </ul>	24 A		
minimum cross-section in main circuit at maximum AC-1	16 mm²		
rated value			
operational current for approx. 200000 operating cycles at AC-4			
at 400 V rated value	22 A		
<ul> <li>at 690 V rated value</li> </ul>	18.5 A		
operational current			
<ul> <li>at 1 current path at DC-1</li> </ul>			
— at 24 V rated value	55 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		
<ul> <li>with 2 current paths in series at DC-1</li> </ul>			
— at 24 V rated value	55 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 110 V rated value	55 A 45 A		
— at 220 V rated value — at 440 V rated value	45 A 2.9 A		
- al 440 V Taleu Value	2.9 A		

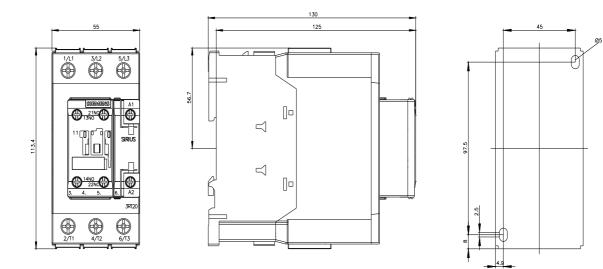
— at 600 V rated value	1.4 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	35 A
— at 220 V rated value — at 440 V rated value	1 A 0.1 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	0.00 A
- at 24 V rated value	55 A
— at 110 V rated value	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
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 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	
<ul> <li>at AC-2 at 400 V rated value</li> </ul>	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 400 V for current peak value n=20 rated value	25.2 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	31.6 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	28.6 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	9.6 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	16.8 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	21 kVA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	28.6 kVA
short-time withstand current in cold operating state	
up to 40 °C	942 A: Lice minimum process spectron ages to AC 1 roted value
<ul> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> </ul>	843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>Imited to 5 s switching at zero current maximum</li> <li>Iimited to 10 s switching at zero current maximum</li> </ul>	400 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10's switching at zero current maximum</li> <li>limited to 30's switching at zero current maximum</li> </ul>	241 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 50 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> </ul>	196 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 200 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	1 000 1/h
• at AC-3e maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 V

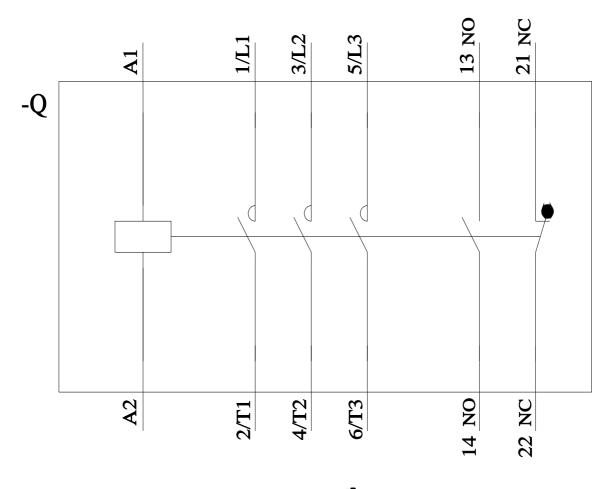
operating range factor control supply voltage rated				
value of magnet coil at AC				
• at 50 Hz	0.8 1.1			
• at 60 Hz	0.85 1.1			
apparent pick-up power of magnet coil at AC				
• at 50 Hz	210 VA			
• at 60 Hz	188 VA			
inductive power factor with closing power of the coil				
• at 50 Hz	0.69			
● at 60 Hz	0.65			
apparent holding power of magnet coil at AC				
• at 50 Hz	17.2 VA			
• at 60 Hz	16.5 VA			
inductive power factor with the holding power of the				
coil				
• at 50 Hz	0.36			
• at 60 Hz	0.39			
closing delay	40 00			
• at AC opening delay	10 80 ms			
• at AC	10 18 ms			
	10 20 ms			
arcing time control version of the switch operating mechanism	Standard A1 - A2			
Auxiliary circuit	Standard AT - AZ			
	1			
number of NC contacts for auxiliary contacts instantaneous contact	I			
number of NO contacts for auxiliary contacts	1			
instantaneous contact				
operational current at AC-12 maximum	10 A			
operational current at AC-15				
<ul> <li>at 230 V rated value</li> </ul>	10 A			
<ul> <li>at 400 V rated value</li> </ul>	3 A			
<ul> <li>at 500 V rated value</li> </ul>	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			
<ul> <li>at 110 V rated value</li> <li>at 125 V rated value</li> </ul>	3 A 2 A			
at 125 v rated value	1A			
at 600 V rated value	0.15 A			
operational current at DC-13	0.1077			
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			
<ul> <li>at 125 V rated value</li> </ul>	0.9 A			
<ul> <li>at 220 V rated value</li> </ul>	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]				
<ul> <li>for single-phase AC motor</li> </ul>				
— at 110/120 V rated value	3 hp			
— at 230 V rated value	7.5 hp			
for 3-phase AC motor	10 hz			
— at 200/208 V rated value	10 hp			
— at 220/230 V rated value	15 hp			
- at 460/480 V rated value	30 hp			
<ul> <li>— at 575/600 V rated value</li> </ul>	40 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	qG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415
	V, 80 kA)
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 10 A (500 V, 1 kA)
required	
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
<ul> <li>side-by-side mounting</li> </ul>	Yes
height	114 mm
width	55 mm
depth	130 mm
required spacing	
with side-by-side mounting	
— 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
<ul> <li>for live parts</li> </ul>	
— 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
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
<ul> <li>of magnet coil</li> <li>type of connectable conductor cross-sections</li> </ul>	Screw-type terminals
for main contacts	
- solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
<ul> <li>— finely stranded with core end processing</li> </ul>	2x (1 25 mm²), 1x (1 35 mm²)
at AWG cables for main contacts	2x (18 2), 1x (18 1)
connectable conductor cross-section for main	( · · · - /) · · · ( · - · · · /
contacts	
<ul> <li>finely stranded with core end processing</li> </ul>	1 35 mm²
connectable conductor cross-section for auxiliary	
contacts	0.5 0.5 mm²
<ul> <li>solid or stranded</li> <li>finally stranded with core and processing</li> </ul>	0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup>
<ul> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> </ul>	0.0 2.0 11111
for auxiliary contacts	
<ul> <li>Ior auxiliary contacts</li> <li>— solid or stranded</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>— finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (0.5 1.5 mm), 2x (0.75 2.5 mm) 2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross	
section	
for main contacts	18 1
<ul> <li>for auxiliary contacts</li> </ul>	20 14
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes

	n operation according t	o IEC 60947-	No			
5-1 B10 value with high d	lemand rate according	to SN 31920	1 000 000			
proportion of dange						
	nd rate according to SN		40 %			
-	nd rate according to SI low demand rate accor		73 % 100 FIT			
31920		-				
IEC 61508	t interval or service life		20 y			
protection class IP o 60529	on the front according	g to IEC	IP20			
touch protection on suitability for use	the front according t	o IEC 60529	finger-safe, for vertical con	tact from the front		
<ul> <li>safety-related s</li> </ul>	witching OFF		Yes			
Certificates/ approval	s					
General Product Ap	oproval				EMC	
			140		•	
		<u>Confirmation</u>	ı <u>KC</u>	EHC	RCM	
Functional Safety/Safety of Machinery	Declaration of Con	formity	Test Certificates		Marine / Shipping	
<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK CA	<u>Special Test Certificate</u> ate	<u>Type Test Certific-</u> ates/Test Report	ABS	
Marine / Shipping						
BUREAU VERITAS		Lloyds Register uis	PRS	RINA	KMRS	
other		Railway	Dangerous Good			
Confirmation	<u>Confirmation</u>	Vibration and St	nock <u>Transport Informa-</u> tion			
<b>F</b>						
Further information	wnloadcenter (Catalo	as Brochures	)			
https://www.siemens.		.99, Divendies,	1			
Industry Mall (Onlin	e ordering system)	Cotolog/art des 12				
	https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2035-1AC20 Cax online generator					
http://support.automa	tion.siemens.com/WW		aspx?lang=en&mlfb=3RT2	<u>035-1AC20</u>		
	lanuals, Certificates,					
Image database (pro		ension drawings,	3D models, device circui		cros,)	
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Further characterist	ics (e.g. electrical en	durance, switchin		<u>20&amp;objecttype</u> =14&aric	view=view1	

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