## SIEMENS

## Data sheet

## 3RA2220-4DH27-0BB4

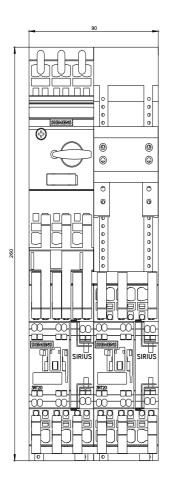


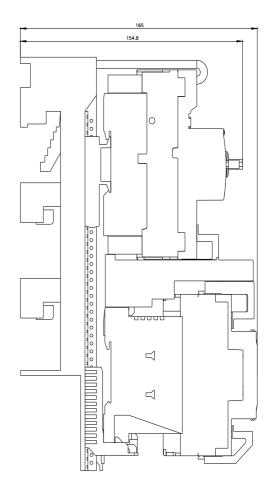
Load feeder fuseless, Reversing duty 400 V AC, Size S0 18...25 A 24 V DC Spring-type terminal for 60 mm busbar systems (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO+1 NC (contactor)

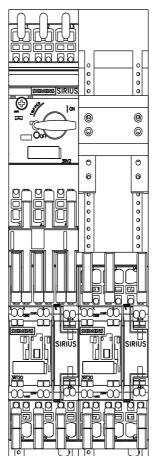
size of the circuit-breakerS0size of load feederS0power loss [W] for rated value of the currentS0• at AC in hot operating state per pole5.8 W• without load current share typical5.9 Winsulation voltage with degree of pollution 3 at AC rated value690 Vsurge voltage resistance rated value64Vdegree of protection NEMA ratingothershock resistance according to IEC 60068-2-276g / 11 msmechanical service life (operating cycles) of contactor typical10 000 000type of assignment2type of protection according to ATEX directive 2014/34/EUEx II (2) GDcertificate of suitability according to ATEX directive 2014/34/EUDMT 02 ATEX F 001reference code according to IEC 81346-2:2019QSubstance Prohibitance (Date)-20 +60 °C• during operation-20 +60 °C• during storage-50 +80 °C• during storage-50 +80 °C• during transport-20 +60 °C• felative humidity during operation-20 +60 °C• felative humidity during operation-20 +60 °C	a set the	
design of the product         for 60 mm busbars           product type designation         3RA222           manufacturer's article number         3R12027.28840           • of the supplied contactor         3R12027.28840           • of the supplied contactor         3R20221.20A00           • of the supplied Conservery         3R20221.20A00           State of the circuit-breakers         S0           size of the circuit-breaker         S0           size of the circuit-breaker set of the current         5.8 W           • at AC in hot operating state per pole         5.8 W           • at AC in hot operating state per pole         5.8 W           • at AC in hot operating state per pole         5.8 W           • surge voltage resistance rated value         690 V           degree of protection NEMA rating         other           store of protection NEMA rating         000000           value of protection ATEX directive 2014/34EU         EXII (2) GD           certificate of suitability according to ATEX directive 2014/34EU         EXII (2) GD           certificate of suitability according to ATEX directive 2014/34EU         EXII (2) GD           certificate of suitability according to ATEX directive 2014/34EU         EXII (2) GD           certificate of suitability according to ATEX directive 2014/34EU         EXII (2) GD <th>product brand name</th> <th>SIRIUS</th>	product brand name	SIRIUS
product type designation         3RA22           manufacture's article number         sRT2027.28840           • of the supplied contactor         SRT2027.28840           • of the supplied circuit-breakers         SRV2021.4DA20           • of the supplied fix module         SRA2923.1D82           • of the supplied link module         SRA2921.2AA00           Concal technical data         S0           size of the circuit-breaker         S0           size of the dreating state per pole         5.8 W           • without load current share typical         5.9 W           insulation voltage with degree of pollution 3 at AC rated value         6kV           degree of protection REMA rating         other           shock resistance according to REC 60088-277         6g / 11 ms           mechanical service life (operating cycles) of contactor typical         10 000 000           type of protection according to ATEX directive 2014/34/EU         EX II (2) GD           certificate of suitability according to ATEX directive 2014/34/EU         EX III (2) GD           certificate of suitability according to ATEX directive 2014/34/EU         DMT 02 ATEX F 001           reference code according to ATEX directive 2014/34/EU         DMT 02 ATEX F 001           reference code according to ATEX directive 2014/34/EU         EX U/2) CO           duing operation	product designation	Reversing starter
Insultation of the supplied contactor         RT2027-28840           • of the supplied contactor         RR12027-28840           • of the supplied RS assembly kit         RR20221-4DA20           • of the supplied Ink module         RR20221-2AA00           General technical data         stace of the current           • at AC in hot operating state per pole         5.8 W           • at AC in hot operating state per pole         5.8 W           • at AC in hot operating state per pole         5.8 W           • at AC in hot operating state per pole         5.8 W           • attAC in hot operating state per pole         5.8 W           • attAC in hot operating state per pole         5.8 W           • attAC in hot operating state per pole         5.8 W           • attAC in hot operating state per pole         5.8 W           • attAC in hot operating state per pole         5.8 W           • attAC in hot operating state per pole         5.8 W           • attAC in hot operating state per pole         5.8 W           • attaC in hot operating state per pole         5.8 W           • attaC in hot operating states         690 V           Insulation voltage with degree of pollution 3 at AC rated value         690 V           state according to ATEX directive 2014/34/EU         DMT 02 ATEX F 001           reference co	design of the product	for 60 mm busbars
• of the supplied contactorSRT2027.2BB40• of the supplied incruit-breakersSRV2021.4DA20• of the supplied ink moduleSRA2021.4DA20• of the supplied ink moduleSRA2021.2AA00Ceneral technical dataS0size of the circuit-breakerS0size of the dreaderS0• at AC in hot operating state per poleS.8 W• without load current share typical5.9 Winsulation votage with degree of pollution 3 at AC rated value690 Vsurge of protection NEMA ratingothershock resistance raced value600 Vstepted in group of the circuit-breaker000 000type of protection NEMA ratingothershock resistance according to EEC 60068-2-276g /1 msmechanical service life (operating cycles) of contactor typical10 000 000type of protection according to EEC 60068-2-276g /1 msmechanical service life (operating cycles) of contactor typical10 000 000type of protection according to EEC 60068-2-276g /1 msmechanical service life (operating cycles) of contactor typical10 000 000type of protection according to EEC 60068-2-276g /1 msmechanical service life (operating cycles) of contactor typical10 000 000type of protection according to EEC 6134-62:20190Certificate of suitability according to ATEX directive 2014/34/EUDMT 02 ATEX F 001certificate of suitability according to ATEX directive 2014/34/EU0uting storage-50	product type designation	3RA22
• of the supplied circuit-breakersSRV2021-4DA20• of the supplied link moduleSRA2923-1DB2• of the supplied link moduleSRA2921-2AA00Concrat tochical dataS0size of the circuit-breakerS0• size of the circuit-breakerS0• of the direct value of the current-• of the hot operating state per pole5.8 W• without load current share typical5.9 W• insulation voltage with degree of pollution 3 at AC rated value690 Vsurge voltage resistance rated value64 Vdegree of protection NEMA ratingothershock nesistance according to ECE 0068-2-276g / 11 msmechanical service life (operating cycles) of contactor typicalDN0 000type of aprotection according to ATEX directive 2014/34/EUEX III (2) GDcertificate of suitability according to ATEX directive 2014/34/EUDNT 02 ATEX F 001reference: code according to EE 81346-2:2019QSubstance Prohibitance (Date)-20	manufacturer's article number	
• of the supplied INK module3RA2923-1DB2• of the supplied INK module3RA2921-2AA00Ceneral technical data50size of the circuit-breaker50size of the circuit-breaker50• at AC in hot operating state per pole5.8 W• without load current share typical5.9 W• without load current share typical690 Vsurge voltage resistance rated value690 Vsurge voltage resistance rated value600 Vsurge voltage resistance rated value610 000 000type of protection NEMA ratingothershock resistance according to IEC 60068-2-276g /11 msmechanical service life (operating cycles) of contactor typical10 000 000type of protection according to IEC 60068-2-276g /11 msmechanical service life (operating cycles) of contactor typical10 000 000type of protection according to ATEX directive 2014/34/EUDMT 02 ATEX F 001reference code according to ATEX directive 2014/34/EUDMT 02 ATEX F 001reference code according to IEC 81346-2:2019QSubstance Prohibitance (Date)-20460 °C- during storage-50480 °C- during storage-50480 °C- during storage-50480 °C- during storage-20460 °C- during transport-20	<ul> <li>of the supplied contactor</li> </ul>	<u>3RT2027-2BB40</u>
• of the supplied link module     3RA2921:2AA00       Concert technical data     50       size of load feeder     50       power loss [W] for rated value of the current     5.8 W       • at AC in hot operating state per pole     5.8 W       • without load current share typical     5.9 W       insulation voltage with degree of pollution 3 at AC rated value     690 V       surge voltage resistance rated value     6 kV       degree of protection NEMA rating     other       shock resistance according to IEC 60068-2-27     6g / 11 ms       mechanical service life (operating cycles) of contactor typical     10 000 000       type of assignment     2       certificate of suitability according to ATEX directive 2014/34/EU     EX II (2) GD       certificate of suitability according to IEC 81346-2:2019     Q       Substance Prohibitance (Date)     10/01/2009       Ambient conditions     -       eduring atorage     -50 +60 °C       • during storage     -50 +60 °C       • during storage     -20 +60 °C       • during operation     -20 +6	<ul> <li>of the supplied circuit-breakers</li> </ul>	<u>3RV2021-4DA20</u>
Conneral technical data           size of the circuit-breaker         S0           power loss [W] for rated value of the current            • at AC in hot operating state per pole         5.8 W           • without load current share typical         5.9 W           insulation voltage with degree of pollution 3 at AC rated value         690 V           surge voltage resistance rated value         64 kV           degree of protection NEMA rating         other           shock resistance according to IEC 60068-2-27         6g / 11 ms           mechanical service life (operating cycles) of contactor typical         10 000 000           type of assignment         2           type of protection according to ATEX directive 2014/34/EU         EX II (2) GD           certificate of suitability according to ATEX directive 2014/34/EU         DMT 02 ATEX F 001           reference code according to IEC 81346-2:2019         Q           Substance Prohibitance (Date)         1001/2009           Anheit conditions	<ul> <li>of the supplied RS assembly kit</li> </ul>	<u>3RA2923-1DB2</u>
size of the circuit-breaker     \$0       size of load feeder     \$0       over loss [W] for rated value of the current     ************************************	<ul> <li>of the supplied link module</li> </ul>	<u>3RA2921-2AA00</u>
Size of load feeder         S0           power loss [W] for rated value of the current         5.8 W           • at AC in hot operating state per pole         5.8 W           • without load current share typical         5.9 W           insulation voltage with degree of pollution 3 at AC rated value         690 V           surge voltage resistance rated value         6 kV           degree of protection NEMA rating         other           shock resistance according to EC 60068-2-27         69 /11 ms           mechanical service life (operating cycles) of contactor typical         1000 000           type of protection according to ATEX directive 2014/34/EU         EX II (2) GD           certificate of suitability according to ATEX directive 2014/34/EU         DMT 02 ATEX F 001           reference code according to IEC 81346-2:2019         Q           Substance Prohibitance (Date)         10/01/2009           Ambient conditions         -20 +60 °C           • during operation         -20 +60 °C           • during transport         -50 +80 °C           • during transport         50 +80 °C           • during transport         -50 +60 °C           • during transport         -50 +60 °C           • during transport         -50 +60 °C           • during transport         -50 .	General technical data	
And Notices (W) for rated value of the current         Image: Control of Contro of Control of Control of Control of Control of Control of Contro	size of the circuit-breaker	S0
• at AC in hot operating state per pole5.8 W• without load current share typical5.9 Winsulation voltage with degree of pollution 3 at AC rated value690 Vsurge voltage resistance rated value64 Vdegree of protection NEMA ratingothershock resistance according to IEC 60068-2-276g / 11 msmechanical service life (operating cycles) of contactor typical10 000 000type of protection NEMA rating2type of protection according to ATEX directive 2014/34/EUDMT 02 ATEX F 001reference code according to IEC 81346-2:2019QSubstance Prohibitance (Date)10/01/2009Ambient conditions-20 +60 °C- during torage-50 +80 °C- during torage-50 +80 °C- during torage-50 +80 °C- during torage-50 +80 °C- during torage-20 +60 °C- during torage-50 +80 °C- tortext-50 +80 °C	size of load feeder	S0
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insulation voltage with degree of pollution 3 at AC rated value         690 V           surge voltage resistance rated value         6 kV           degree of protection NEMA rating         other           shock resistance according to IEC 60068-2-27         6g/ 11 ms           mechanical service life (operating cycles) of contactor typical         10 000 000           type of assignment         2           type of protection according to ATEX directive 2014/34/EU         Ex II (2) GD           certificate of suitability according to ATEX directive 2014/34/EU         DMT 02 ATEX F 001           reference code according to IEC 81346-2:2019         Q           Substance Prohibitance (Date)         0/01/2009           Ambient conditions         ambient temperature           e during operation         -20 +60 °C           e during transport         -50 +80 °C           e during transport         -50 +80 °C           e during transport         -00 +60 °C           relative humidity during operation         -20 +60 °C           e during transport         -50 +80 °C           temperature compensation         -20 +60 °C           e during transport         -00 +80 °C           temperature independent         -10 95 %           Main circuit         3	<ul> <li>at AC in hot operating state per pole</li> </ul>	5.8 W
surge voltage resistance rated value6 kVdegree of protection NEMA ratingothershock resistance according to IEC 60068-2-276g / 11 msmechanical service life (operating cycles) of contactor typical10 000 000type of assignment2certificate of suitability according to ATEX directive 2014/34/EUEx II (2) GDcertificate of suitability according to ATEX directive 2014/34/EUDMT 02 ATEX F 001reference code according to IEC 81346-2:2019QSubstance Prohibitance (Date)10/01/2009Ambient conditions-20 +60 °C• during operation-20 +60 °C• during storage-50 +80 °C• during transport-20 +60 °Crelative humidity during operation10 95 %Main circuit3design of the switching contactelectromechanicaladjustable current response value current of the current- degendent overload release690 V	<ul> <li>without load current share typical</li> </ul>	5.9 W
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type of protection according to ATEX directive 2014/34/EU         Ex II (2) GD           certificate of suitability according to ATEX directive 2014/34/EU         DMT 02 ATEX F 001           reference code according to IEC 81346-2:2019         Q           Substance Prohibitance (Date)         10/01/2009           Ambient conditions         -20 +60 °C           e during operation         -20 +80 °C           e during storage         -50 +80 °C           e during transport         -20 +60 °C           temperature compensation         -20 +60 °C           relative humidity during operation         10 95 %           Main circuit         3           design of the switching contact         electromechanical           adjustable current response value current of the current-dependent overload release         18 25 A	mechanical service life (operating cycles) of contactor typical	10 000 000
certificate of suitability according to ATEX directive 2014/34/EU     DMT 02 ATEX F 001       reference code according to IEC 81346-2:2019     Q       Substance Prohibitance (Date)     10/01/2009       Ambient conditions     -       ambient temperature     -       • during operation     -20 +60 °C       • during storage     -50 +80 °C       • during transport     -50 +80 °C       • during transport     -50 +80 °C       relative humidity during operation     -20 +60 °C       relative humidity during operation     -20 +60 °C       mumber of poles for main current circuit     3       design of the switching contact     electromechanical       adjustable current response value current of the current- dependent overload release     18 25 A       operating voltage • rated value     690 V	type of assignment	2
reference code according to IEC 81346-2:2019         Q           Substance Prohibitance (Date)         10/01/2009           Ambient conditions         -           ambient temperature         -           • during operation         -20 +60 °C           • during storage         -50 +80 °C           • during transport         -50 +80 °C           temperature compensation         -20 +60 °C           relative humidity during operation         10 95 %           Main circuit         3           design of the switching contact         electromechanical           adjustable current response value current of the current-dependent overload release         18 25 A           operating voltage         -20 NU           • rated value         690 V	type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
Substance Prohibitance (Date)     10/01/2009       Ambient conditions     -20 +60 °C       ambient temperature     -20 +60 °C       • during storage     -50 +80 °C       • during transport     -50 +80 °C       • during transport     -50 +80 °C       • during transport     -20 +60 °C       relative humidity during operation     -20 +60 °C       relative humidity during operation     10 95 %       Main circuit     3       number of poles for main current circuit     3       design of the switching contact     electromechanical       adjustable current response value current of the current- dependent overload release     18 25 A       operating voltage • rated value     690 V	certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
Ambient conditions         ambient temperature         • during operation         • during storage         • during storage         • during transport         -50 +80 °C         • during transport         -50 +80 °C         temperature compensation         -20 +60 °C         relative humidity during operation         10 95 %         Main circuit         number of poles for main current circuit       3         design of the switching contact       electromechanical         adjustable current response value current of the current-dependent overload release       18 25 A         operating voltage       690 V	reference code according to IEC 81346-2:2019	Q
ambient temperature       -20 +60 °C         • during operation       -20 +60 °C         • during storage       -50 +80 °C         • during transport       -50 +80 °C         temperature compensation       -20 +60 °C         relative humidity during operation       10 95 %         Main circuit       3         number of poles for main current circuit       3         design of the switching contact       electromechanical         adjustable current response value current of the current-dependent overload release       18 25 A         operating voltage       690 V	Substance Prohibitance (Date)	10/01/2009
• during operation-20 +60 °C• during storage-50 +80 °C• during transport-50 +80 °C• during transport-20 +60 °Ctemperature compensation-20 +60 °Crelative humidity during operation10 95 %Main circuit3number of poles for main current circuit3design of the switching contactelectromechanicaladjustable current response value current of the current- dependent overload release18 25 Aoperating voltage • rated value690 V	Ambient conditions	
• during storage-50 +80 °C• during transport-50 +80 °C• temperature compensation-20 +60 °Crelative humidity during operation10 95 %Main circuit3number of poles for main current circuit3design of the switching contactelectromechanicaladjustable current response value current of the current- dependent overload release18 25 Aoperating voltage • rated value690 V	ambient temperature	
• during transport     -50 +80 °C       temperature compensation     -20 +60 °C       relative humidity during operation     10 95 %       Main circuit     3       number of poles for main current circuit     3       design of the switching contact     electromechanical       adjustable current response value current of the current- dependent overload release     18 25 A       operating voltage     690 V	<ul> <li>during operation</li> </ul>	-20 +60 °C
temperature compensation       -20 +60 °C         relative humidity during operation       10 95 %         Main circuit       3         number of poles for main current circuit       3         design of the switching contact       electromechanical         adjustable current response value current of the current- dependent overload release       18 25 A         operating voltage       690 V	during storage	-50 +80 °C
relative humidity during operation       10 95 %         Main circuit       3         number of poles for main current circuit       3         design of the switching contact       electromechanical         adjustable current response value current of the current- dependent overload release       18 25 A         operating voltage       690 V	during transport	-50 +80 °C
Main circuit       3         number of poles for main current circuit       3         design of the switching contact       electromechanical         adjustable current response value current of the current- dependent overload release       18 25 A         operating voltage       690 V	temperature compensation	-20 +60 °C
number of poles for main current circuit       3         design of the switching contact       electromechanical         adjustable current response value current of the current- dependent overload release       18 25 A         operating voltage       690 V	relative humidity during operation	10 95 %
design of the switching contact     electromechanical       adjustable current response value current of the current- dependent overload release     18 25 A       operating voltage     690 V	Main circuit	
adjustable current response value current of the current- dependent overload release       18 25 A         operating voltage <ul> <li>rated value</li> <li>690 V</li> </ul>	number of poles for main current circuit	3
dependent overload release           operating voltage           • rated value         690 V		
• rated value 690 V		18 25 A
	operating voltage	
• at AC-3 rated value maximum 690 V	rated value	690 V
	<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V

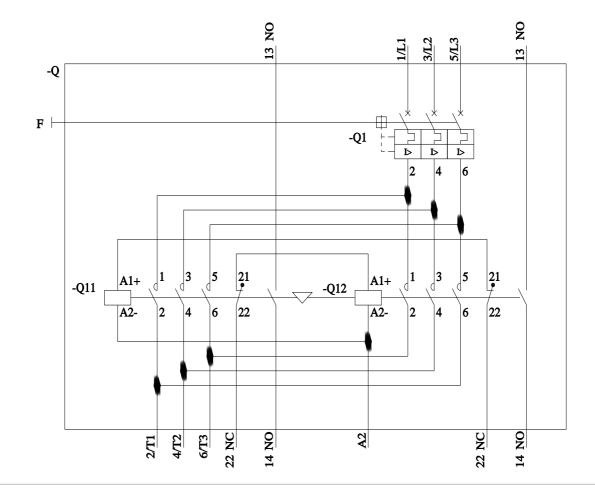
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	25 A
at AC-3e at 400 V rated value	25 A
operating power	
• at AC-3	
— at 400 V rated value	11 000 W
• at AC-3e	
— at 400 V rated value	11 000 kW
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	24 V
rated value	24 24 V
holding power of magnet coil at DC	5.9 W
Auxiliary circuit	
product extension auxiliary switch	Yes
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
response value current of instantaneous short-circuit trip unit	325 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	25 A
at 600 V rated value	25 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	2 hp
— at 230 V rated value	3 hp
• for 3-phase AC motor	с пр
— at 200/208 V rated value	7.5 hp
— at 220/230 V rated value	7.5 hp
— at 460/480 V rated value	20 hp
Short-circuit protection	2011
	Vac
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (Iq)	150.000 A
at 400 V according to IEC 60947-4-1 rated value	150 000 A
Installation/ mounting/ dimensions	
mounting position	vertical
fastening method	for snapping onto 60 mm busbar systems
height	260 mm
width	90 mm
depth	165 mm
required spacing	
for grounded parts	
— forwards	32 mm
— backwards	0 mm
— upwards	50 mm
— at the side	10 mm
— downwards	10 mm
for live parts	
— forwards	32 mm
— backwards	0 mm
— upwards	50 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	

<ul> <li>for main current circuit</li> </ul>		ring-loaded terminals				
<ul> <li>for auxiliary and control circuit</li> </ul>	sp	ring-loaded terminals				
Safety related data						
B10 value with high demand rate according to SN	31920 1 0	000 000				
proportion of dangerous failures						
with high demand rate according to SN 319	20 73	%				
touch protection on the front according to IEC	60529 fin	ger-safe, for vertical contact	from the front			
Communication/ Protocol						
protocol is supported						
<ul> <li>PROFINET IO protocol</li> </ul>	No	)				
PROFIsafe protocol	No	)				
protocol is supported AS-Interface protocol	No	)				
Certificates/ approvals						
General Product Approval		For use in hazard- ous locations	Declaration of Confor	mity		
Confirmation	EHC	K ATEX	CE EG-Konf.	UK CA		
Test Certificates	Marine / Shipping					
Type Test Certific-         Special Test Certific-           ates/Test Report         ate	ABS	BUREAU VERITAS	Llovd's Register us	PRS		
Marine / Shipping		other	Railway	Dangerous Good		
	DNV-GL	Confirmation	Vibration and Shock	Transport Information		
Further information						
Siemens has decided to exit the Russian mark						
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, B https://www.siemens.com/ic10 Industry Mall (Online ordering system)	rochures,)					
https://mall.industry.siemens.com/mall/en/en/Cata Cax online generator http://support.automation.siemens.com/WW/CAXc			7-0BB4			
Service&Support (Manuals, Certificates, Chara https://support.industry.siemens.com/cs/ww/en/ps/	/3RA2220-4DH27-0BE					
Image database (product images, 2D dimensio http://www.automation.siemens.com/bilddb/cax_de Characteristic: Tripping characteristics, I <sup>2</sup> t, Let	e.aspx?mlfb=3RA222( -through current	0-4DH27-0BB4⟨=en	s, EPLAN macros,)			
https://support.industry.siemens.com/cs/ww/en/ps/ Further characteristics (e.g. electrical endurant http://www.automation.siemens.com/bilddb/index.a	ce, switching freque	ncy)	kobjecttype=14&gridview=	=view1		









last modified:

5/1/2023 🖸