# SIEMENS

## **Product data sheet**

## 3RV2411-0KA20



CIRCUIT-BREAKER SZ S00, FOR TRANSFORMER PROT. A-RELEASE 0.9...1.25A, N-RELEASE 26A SPRING-L. CONNECTION, STANDARD SW. CAPACITY

	SIRIUS
	3RV2 circuit breaker
	S00
	CLASS 10
	IP20
	3
m	2,000
°C	-50 80
°C	-20 60
°C	-50 80
	25g / 11 ms
kV	6
V	690
W	5.4
	F
	F
	°C °C °C kV V

• of the main contacts / typical100,000• of the auxiliary contacts / typicalNoType of the driving mechanism / motor driveNoDesign of the operating mechanismWo• overhaad protectionYes• overhaad protectionYes• phase disturbance recognitionYes• auxiliary solutedNo• undersy solutedNo </th <th>Mechanical operating cycles as operating time</th> <th>_</th> <th></th>	Mechanical operating cycles as operating time	_	
Type of the driving mechanism / motor drive         Image: mechanism / motor drive         No           Design of the operating mechanism         image: mechanism	of the main contacts / typical		100,000
Design of the operating mechanism         ide         selector switch           Product function         Yes         Yes           • overload protection         Yes         Yes           • auxiliary switch         Yes         Yes           • auxiliary switch         No         No           • trip indicator         No         No           Product extension / optional / motor drive         No         No           Main circuit:         No         Solower / at AC-3 / rated value / maximum         V         680           Operating outrage / at AC-3 / rated value / maximum         V         680         Solower / at AC-3           Service power / at AC-3 / rated value / maximum         V         680         Solower / at AC-3           • at 400 V / rated value         W         370         Solower / at AC-3           • at 400 V / rated value         W         370         Solower / at AC-3           • at 400 V / rated value         W         370         Solower / at AC-3           • at 400 V / rated value         W         370         Solower / at AC-3           • at 600 V / rated value         W         370         Solower / at AC-3           • at 600 V / rated value         W         160         Solower / at AC-3	<ul> <li>of the auxiliary contacts / typical</li> </ul>		100,000
Product function         Yes           • overload protection         Yes           • phase disturbance recognition         Yes           Product component         Yes           • audilary switch         No           • undiary switch         No           • undiary switch         No           • trip indicator         No           Product stansion / optional / motor drive         No           Main circuit:         3           Operating voltage / at AC-3 / rated value / maximum         V           Operating current / at AC-3 / rated value / maximum         V           Service power / at AC-3         -           • at 400 V / rated value         A           • at 400 V / rated value         W           • of the non-delayed short-circuit release         A           • of the non-delayed short-circuit release         A           • of the non-delayed short-circuit re	Type of the driving mechanism / motor drive	_	No
• overload protectionYes• phase disturbance recognitionYesProduct componentNo• auxiliary switchNo• undervoltage release mechanismNo• indicatorNoProduct extension / optional / motor driveNoProduct extension / optional / motor driveNoMumber of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumVBerrier gover / at AC-3 / rated value / maximumV6 operating current / at AC-3 / at 400 V / rated valueW9 operating current / at AC-3 / at 400 V / rated valueW9 operating current / at AC-3 / at 400 V / rated valueW9 operating current / at AC-3 / at 400 V / rated valueW9 operating current / at AC-3 / according to IEC 60947-62 / IrithSi9 operating current / at AC-3 / according to IEC 60947-62 / IrithTop and bottomArrangement of electrical connectors / for main current circuitVSi9 operatin / at AC-3 / at 200 V / rated valueA26 269 of the non-delayed short-circuit releaseA9 1.259 oricinous current / rated valueWIsi0 continuous current / rated valueMYes10 operating / auxiliary contacts / instantaneousSiSi9 operating / auxiliary contacts / instantaneousIsiIsi9 operating / auxiliary contacts / instantaneousIsiIsi9 operating / auxiliary contacts / instantaneousIsiIsi9 operating / auxiliary contacts / instant	Design of the operating mechanism	_	selector switch
• phase disturbance recognitionIYesProduct componentNo• undievoltage release mechanismNo• inf indicatorNoProduct extension / optional / motor driveNoMumber of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumVService power / at AC-3 / rated value / maximumV• at 400 V / rated valueA• at 400 V / rated valueW• at 600 V / rated valueM• at 600 V / rated valueA• at 600 V / rated valueA• at	Product function	_	
Product component       No         • auxiliary switch       No         • undervoltage release mechanism       No         • trip indicator       No         Product extension / optional / motor drive       No         Mumber of poles / for main current circuit       3         Operating voltage / at AC-3 / rated value / maximum       V       690         Operating current / at AC-3 / rated value / maximum       V       690         Operating current / at AC-3 / rated value       A       1.1         Service power / at AC-3	overload protection		Yes
• auxiliary switchNo• undervoltage release mechanismNo• trip indicatorNoProduct extension / optional / motor driveNoMumber of poles / for main current circuitSOperating voltage / at AC-3 / rated value / maximumVOperating current / at AC-3 / rated value / maximumVOperating current / at AC-3 / rated value / maximumVOperating current / at AC-3 / rated valueA1.1Service power / at AC-3V• at 400 V / rated valueW• at 500 V / rated valueW• at 600 V / rated valueV• at 600 V / rated valueI/hI for intervent-dependent overload releaseA• at 600 V / rated valueW• at 610 L current-dependent overload releaseA• at 6	phase disturbance recognition		Yes
• undervoltage release mechanismNo• trip indicatorNoProduct extension / optional / motor driveNoMain circuit:MoNumber of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumVOperating voltage / at AC-3 / rated value / maximumVOperating voltage / at AC-3 / rated value / maximumVOperating voltage / at AC-3 / rated value / maximumVService power / at AC-3A1.1Service power / at AC-3W370370• at 400 V / rated valueW370370• at 690 V / rated valueW370750Frequency of operation / at AC-3 / according to IEC 60947-6-21 maximumTop and bottomAdjustable response currentM• of the non-delayed short-circuit releaseA0.5 26Service power / at AC-3 / at 230 V / rated value• of the non-delayed short-circuit releaseA0.5 26AService power / at AC-3 / at 230 V / rated valueW180Continuous current / rated valueMumber of NC contacts / for auxillary contacts / instantaneous switchingYesNumber of NO contacts / for auxillary contacts / instantaneous switching0Number of Acting contacts / for auxillary contacts / instantaneous switching0Number of Change-over switches / for auxillary contacts / instantaneous switching0Number of Change-over switches / for auxillary contacts0Number of Chan	Product component		
• trip indicator       No         Product extension / optional / motor drive       No         Main circuit:       3         Number of poles / for main current circuit       690         Operating voltage / at AC-3 / rated value / maximum       V       690         Operating current / at AC-3 / rated value / maximum       V       690         Operating current / at AC-3 / rated value / maximum       V       690         • at 400 V / rated value       A       1.1         Service power / at AC-3       W       370         • at 400 V / rated value       W       370         • at 600 V / rated value       W       370         • at 600 V / rated value       W       370         • at 600 V / rated value       W       370         • at 600 V / rated value       W       370         • at 600 V / rated value       W       370         • at 600 V / rated value       W       370         • at 600 V / rated value       W       370         • at 600 V / rated value       W       30         • file current-dependent overload release       A       26 26         • of the our-delayed short-circuit release       A       1.25         Serviceo power / at AC-3 / at 230 V / rated value	auxiliary switch		No
Product extension / optional / motor drive       No         Main circuit:       3         Number of poles / for main current circuit       3         Operating voltage / at AC-3 / rated value / maximum       V       690         Operating current / at AC-3 / at 400 V / rated value       A       1.1         Service power / at AC-3       W       370         • at 400 V / rated value       W       370         • at 400 V / rated value       W       370         • at 600 V / rated value       W       370         • at 600 V / rated value       W       370         • at 600 V / rated value       W       370         • at 600 V / rated value       W       370         • at 600 V / rated value       W       370         • at 600 V / rated value       W       370         • at 600 V / rated value       W       370         Prequency of operation / at AC-3 / according to IEC 60947-6-27       1/h       15         Arrangement of electrical connectors / for main current circuit       Top and bottom         • of the non-delayed short-circuit release       A       26 26         • of the current-dependent overload release       A       125         Service power / at AC-3 / at 230 V / rated value       W	undervoltage release mechanism		No
Main circuit:       3         Operating voltage / at AC-3 / rated value / maximum       V       690         Operating vortent / at AC-3 / at 400 V / rated value       A       1.1         Service power / at AC-3       W       370         • at 400 V / rated value       W       370         • at 400 V / rated value       W       370         • at 600 V / rated value       W       370         • at 600 V / rated value       W       370         • at 600 V / rated value       W       370         • at 600 V / rated value       W       370         • at 600 V / rated value       W       370         • at 600 V / rated value       W       370         • at 600 V / rated value       W       370         • at 600 V / rated value       W       370         • at 600 V / rated value       W       15         Arrangement of electrical connectors / for main current circuit       Top and bottom         • of the non-delayed short-circuit release       A       26 26         • of the current-dependent overload release       A       125         Service power / at AC-3 / at 230 V / rated value       W       180         Continuous current / rated value       Yes       0	trip indicator		No
Number of poles / for main current circuit         3           Operating voltage / at AC-3 / rated value / maximum         V         630           Operating current / at AC-3 / rated value         A         1.1           Service power / at AC-3         W         370           • at 400 V / rated value         W         370           • at 600 V / rated value         W         370           • at 600 V / rated value         W         370           • at 600 V / rated value         W         370           • at 600 V / rated value         W         370           • at 600 V / rated value         W         370           • at 600 V / rated value         W         370           • at 600 V / rated value         W         370           • at 600 V / rated value         W         370           • at 600 V / rated value         W         370           Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum         1/h         15           Arrangement of electrical connectors / for main current circuit         Top and bottom         A           A (justable response current         .0        26        26           • of the non-delayed short-circuit release         A         0.91.25        25 <th>Product extension / optional / motor drive</th> <th></th> <th>No</th>	Product extension / optional / motor drive		No
Operating voltage / at AC-3 / rated value / maximum         V         690           Operating current / at AC-3 / at 400 V / rated value         A         1.1           Service power / at AC-3         W         370           • at 400 V / rated value         W         370           • at 500 V / rated value         W         370           • at 690 V / rated value         W         370           • at 690 V / rated value         W         370           • at 690 V / rated value         W         370           • at 690 V / rated value         W         370           • at 690 V / rated value         W         370           • at 690 V / rated value         W         370           • at 690 V / rated value         W         750           Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum         1/h         15           Arrangement of electrical connectors / for main current circuit         Top and bottom         Adjustable response current           • of the non-delayed short-circuit release         A         26 26         26           • of the current-dependent overload release         A         1.25         A           Evervice power / at AC-3 / at 230 V / rated value         W         180         A           <	Main circuit:		
Operating current / at AC-3 / at 400 V / rated value       A       1.1         Service power / at AC-3       W       370         • at 400 V / rated value       W       370         • at 500 V / rated value       W       370         • at 690 V / rated value       W       370         • at 690 V / rated value       W       370         • at 690 V / rated value       W       370         • at 690 V / rated value       W       370         • at 690 V / rated value       W       370         • at 690 V / rated value       W       370         • at 690 V / rated value       W       370         • at 690 V / rated value       W       370         • at 690 V / rated value       W       15         Arrangement of electrical connectors / for main current circuit       Top and bottom         Adjustable response current       -       -         • of the non-delayed short-circuit release       A       0.9 1.25         Service power / at AC-3 / at 230 V / rated value       W       180         Continuous current / rated value       Yes       -         Number of NC contacts / for auxiliary contacts / instantaneous switching       0       -         Number of NO contacts / for auxiliary contact	Number of poles / for main current circuit		3
Service power / at AC-3W370• at 400 V / rated valueW370• at 500 V / rated valueW370• at 690 V / rated valueW370• at 690 V / rated valueW750Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentITop and bottom• of the non-delayed short-circuit releaseA26 26• of the current-dependent overload releaseA0.9 1.25Service power / at AC-3 / at 230 V / rated valueW180Continuous current / rated valueA1.25Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0Number of NC contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts / instantaneous switching0	Operating voltage / at AC-3 / rated value / maximum	V	690
• at 400 V / rated valueW370• at 500 V / rated valueW370• at 690 V / rated valueW750Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response current • of the non-delayed short-circuit releaseA26 26• of the current-dependent overload releaseA0.9 1.25Service power / at AC-3 / at 230 V / rated valueW180Continuous current / rated valueW125Product extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts0Number of change-over switches / for auxiliary contacts0	Operating current / at AC-3 / at 400 V / rated value	А	1.1
• at 500 V / rated valueW370• at 690 V / rated valueW750Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentImage: Comparison of the non-delayed short-circuit releaseA26 26• of the non-delayed short-circuit releaseA0.9 1.25Service power / at AC-3 / at 230 V / rated valueW180Continuous current / rated valueA1.25Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts0Number of change-over switches / for auxiliary contacts0	Service power / at AC-3	_	
• at 690 V / rated valueW750Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentTop and bottom• of the non-delayed short-circuit releaseA26 26• of the current-dependent overload releaseA0.9 1.25Service power / at AC-3 / at 230 V / rated valueW180Continuous current / rated valueA1.25Product extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts0Number of change-over switches / for auxiliary contacts0Inputs/Outputs:Instantaneous switching	• at 400 V / rated value	W	370
Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum       1/h       15         Arrangement of electrical connectors / for main current circuit       Top and bottom         Adjustable response current           • of the non-delayed short-circuit release       A       26 26         • of the current-dependent overload release       A       0.9 1.25         Service power / at AC-3 / at 230 V / rated value       W       180         Continuous current / rated value       A       1.25         Auxiliary circuit:       Yes          Product extension / auxiliary switch       Yes         Number of NC contacts / for auxiliary contacts / instantaneous switching       0         Number of change-over switches / for auxiliary contacts       0         Inputs/ Outputs:       Inputs/ Outputs	• at 500 V / rated value	W	370
maximum       Imaximum       Image: Imaximum       Image: Imaximum       Image: Image: Imaximum       Image: Image: Imaximum       Image: Image: Imaximum       Imake: Imaximum       Imake: Imaximum       Imake: Imaximum       Imake: Imaximum       Imake: Imaximum       Imake: Imaximum       Imaximum       Imaximum       Imaximum       Imaximum       Imaximum       Imaximum       Imake: Imaximum	• at 690 V / rated value	W	750
Adjustable response currentImage: constraint of the non-delayed short-circuit releaseA26 26• of the current-dependent overload releaseA0.9 1.25Service power / at AC-3 / at 230 V / rated valueW180Continuous current / rated valueA1.25Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts0Inputs/ Outputs:Imputs/ Outputs:		1/h	15
• of the non-delayed short-circuit releaseA26 26• of the current-dependent overload releaseA0.9 1.25Service power / at AC-3 / at 230 V / rated valueW180Continuous current / rated valueA1.25Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts0	Arrangement of electrical connectors / for main current circuit	_	Top and bottom
• of the current-dependent overload releaseA0.9 1.25Service power / at AC-3 / at 230 V / rated valueW180Continuous current / rated valueA1.25Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts0Inputs/ Outputs:U	Adjustable response current		
Service power / at AC-3 / at 230 V / rated value       W       180         Continuous current / rated value       A       1.25         Auxiliary circuit:       Yes         Product extension / auxiliary switch       Yes         Number of NC contacts / for auxiliary contacts / instantaneous switching       0         Number of NO contacts / for auxiliary contacts / instantaneous switching       0         Number of NO contacts / for auxiliary contacts / instantaneous switching       0         Number of change-over switches / for auxiliary contacts       0         Inputs/ Outputs:       U	<ul> <li>of the non-delayed short-circuit release</li> </ul>	А	26 26
Continuous current / rated value       A       1.25         Auxiliary circuit:       Yes         Product extension / auxiliary switch       Yes         Number of NC contacts / for auxiliary contacts / instantaneous switching       0         Number of NO contacts / for auxiliary contacts / instantaneous switching       0         Number of change-over switches / for auxiliary contacts       0         Inputs/ Outputs:       0	<ul> <li>of the current-dependent overload release</li> </ul>	А	0.9 1.25
Auxiliary circuit:       Yes         Product extension / auxiliary switch       Yes         Number of NC contacts / for auxiliary contacts / instantaneous switching       0         Number of NO contacts / for auxiliary contacts / instantaneous switching       0         Number of NO contacts / for auxiliary contacts / instantaneous switching       0         Number of change-over switches / for auxiliary contacts       0         Inputs/ Outputs:       0	Service power / at AC-3 / at 230 V / rated value	W	180
Product extension / auxiliary switch       Yes         Number of NC contacts / for auxiliary contacts / instantaneous switching       0         Number of NO contacts / for auxiliary contacts / instantaneous switching       0         Number of NO contacts / for auxiliary contacts / instantaneous switching       0         Number of NO contacts / for auxiliary contacts / instantaneous switching       0         Number of change-over switches / for auxiliary contacts       0         Inputs/ Outputs:       0	Continuous current / rated value	А	1.25
Number of NC contacts / for auxiliary contacts / instantaneous switching       0         Number of NO contacts / for auxiliary contacts / instantaneous switching       0         Number of change-over switches / for auxiliary contacts       0         Inputs/ Outputs:       0	Auxiliary circuit:		
switching     0       Number of NO contacts / for auxiliary contacts / instantaneous switching     0       Number of change-over switches / for auxiliary contacts     0       Inputs/ Outputs:     0	Product extension / auxiliary switch		Yes
switching     0       Number of change-over switches / for auxiliary contacts     0	-		0
Inputs/ Outputs:	-		0
	Number of change-over switches / for auxiliary contacts		0
Number of digital inputs 0	Inputs/ Outputs:		
	Number of digital inputs		0

Short-circuit:		
Breaking capacity limit short-circuit current (lcu)		
• at 400 V / rated value	А	100,000
• at 500 V / rated value	А	100,000
• at 690 V / rated value	А	100,000
Design of the overcurrent release and short-circuit release		thermomagnetic
Installation/mounting/dimensions:		
Built in orientation		any
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
Width	mm	45
Height	mm	109
Depth	mm	91
Distance, to be maintained, to the ranks assembly		
• forwards	mm	0
backwards	mm	0
• upwards	mm	50
downwards	mm	50
• sidewards	mm	0
Distance, to be maintained, to earthed part		
• forwards	mm	0
backwards	mm	0
• upwards	mm	50
• sidewards	mm	30
downwards	mm	50
Distance, to be maintained, conductive elements		
• forwards	mm	0
backwards	mm	0
• upwards	mm	50
downwards	mm	50
• sidewards	mm	30
Connections:		
Product function		
removable terminal for main circuit		No
removable terminal for auxiliary and control circuit		No
Design of the electrical connection		
for main current circuit		spring-loaded terminals
Type of the connectable conductor cross-section		
for main contacts		

• solid				2x (0.5	4 mm²)	
<ul> <li>stranded</li> </ul>				2x (0.5	4 mm²)	
<ul> <li>finely stranded</li> </ul>	Ł					
with conduct	ctor end processing			2x (0.5 :	2x (0.5 2.5 mm²)	
<ul> <li>without con</li> </ul>	without conductor final cutting			2x (0.5 )	2x (0.5 2.5 mm²)	
<ul> <li>for AWG conduct</li> </ul>	tors / for main contact	6		2x (20 12)		
Certificates/appro	ovals:					
Verification of suita	bility			CE/UL/	CSA	
<ul> <li>f ür Staubexplosic</li> </ul>	onsschutz für Zone 21	/22		no		
<ul> <li>for gas explosion</li> </ul>	protection for zone 1	2		no		
General Product A	pproval			т	est Certificates	
CQC	(SA)	ROSTEST		N	<u>lanufacturer</u>	
Shipping Approva	I					
ABS	GL	Lloyd's Register	PRS		RINA	RMRS
other						
Manufacturer	other					
UL/CSA ratings						
yielded mechanical	performance (hp)					

<ul> <li>for three-phase squirrel cage motors</li> </ul>		
• at 460/480 V / rated value	hp	0.5
• at 575/600 V / rated value	hp	0.5
Operating current (FLA) / for three-phase squirrel cage motors		
• at 480 V / rated value	А	1.1
• al 400 V / Taleu Value	A	1.1

Safety:		
B10 value / with high demand rate		
according to SN 31920		50,000
T1 value / for proof test interval or service life		
according to IEC 61508	а	10
Failure rate (FIT value) / with low demand rate		
according to SN 31920	FIT	50
Proportion of dangerous failures		

• with low demand rate / according to SN 31920	%	40
<ul> <li>with high demand rate / according to SN 31920</li> </ul>	%	40
Protection against electrical shock		finger-safe

## Further information:

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

#### Industry Mall (Online ordering system)

http://www.siemens.com/industrial-controls/mall

#### CAx-Online-Generator

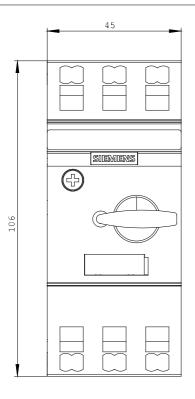
http://www.siemens.com/cax

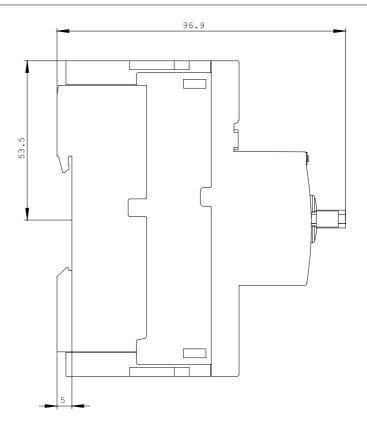
#### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

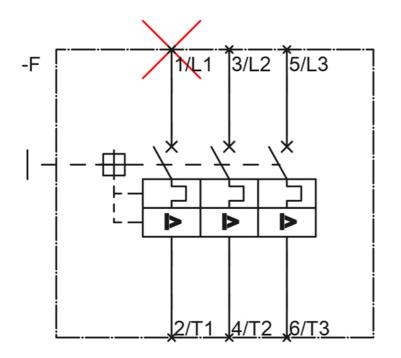
http://support.automation.siemens.com/WW/view/en/3RV2411-0KA20/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RV2411-0KA20







last change:

Oct 24, 2011