SIEMENS

Data sheet

3VA2163-7HN36-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 3POLE, LINE PROTECTION ETU350, LSI, IN=63A OVERLOAD PROTECTION IR=25A ...63A SHORT CIRCUIT PROTECTION ISD=1,5... 10 X IR, II=12 X IN CABLE CONNECTION

Model	
product brand name	SENTRON
Product designation	Molded case circuit breaker
Design of the product	Line protection
Product variations	Selective Applications
Ground fault monitoring version	Without
Design of the auxiliary release	without auxiliaryrelease
Design of the auxiliary switch	Without
Design of the operating mechanism	toggle handle
Type of the driving mechanism / motor drive	No
Design of the overcurrent release	ETU350
General technical data	

General technical data	
Number of poles	3
Trip class / of the L-trip / with I2t characteristic / initial value	0.5
Trip class / of the L-trip / with I2t characteristic / Full-scale value	17
Electrical endurance (switching cycles)	
• at AC-1 / at 380/415 V / at 50/60 Hz	12 000
circuit-breaker / Design	3VA
Mechanical service life (switching cycles) / typical	20 000

Voltage		
Insulation voltage / Rated value	V	800

Protection class

Protection class IP / on the front Protective function of the overcurrent release Switching capacity Switching capacity Switching capacity class of the circuit breaker C Dissipation Active power loss • maximum W 4 Electricity Confinuous current / Rated value / maximum Adjustable response value current / of the instantaneous short-circuit release / initial value Main circuit Operating voltage • with AC / at 50/80 Hz / Rated value • at 40 °C / Rated value • at 65 °C / Rated value • at 65 °C / Rated value • at 65 °C / Rated value • at 70 °C / Rated value • at 83 Auxiliary circuit Number of NC contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts Adjustable parameters Adjustable parameters Adjustable delay time • of 5-trip / with 12t characteristic / Initial value • of 5-trip / with 12t characteristic / Fell-scale value • of 5-trip / with 12t characteristic / Initial value • of 5-trip / with 12t characteristic / Fell-scale value • of 5-trip / with 12t characteristic / Fell-scale value • of 5-trip / with 12t characteristic / Fell-scale value • of 5-trip / with 12t characteristic / Fell-scale value • of 5-trip / with 12t characteristic / Fell-scale value • of 3-trip / with 12t characteristic / Fell-scale value • of 3-drip / with 12t characteristic / Fell-scale value • of 3-drip / with 12t characteristic / Fell-scale value • of 3-drip / with 12t characteristic / Fell-scale value • of 3-drip / with 12t characteristic / Fell-scale value • of 3-drip / with 12t characteristic / Fell-scale value • of 3-drip / with 12t characteristic / Fell-scale value • of 3-drip / with 12t characteristic / Fell-scale value • of 3-drip / with 12t characteristic / Fell-scale value • of 3-drip / with 12t characteristic / Fell-scale value • of 3-drip / with 12t characteristic / Fell-scale value • of 3-drip / with 12t characteristic / Fell-scale value • of 3-drip / with 12t characteristic / Fell-scale value • of 3-drip / with	Protection class IP		IP40
Switching capacity Switching capacity class of the circuit breaker C Dissipation Active power loss • maximum W 4 Electricity Continuous current / Rated value / maximum A 63 Adjustable response value current / of the instantaneous short-circuit release / initial value Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value A 63 • at 40 °C / Rated value • at 65 °C / Rated value • at 65 °C / Rated value • at 65 °C / Rated value • at 70 °C / Rated value • at 63 Auxiliary circuit Number of NC contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts O Suitability Sultability for use Adjustable parameters Adjustable parameters Adjustable parameters Adjustable parameters Adjustable celay time • of S-trip / with /2t characteristic / initial value • of the short-time delayed short-circuit release / full-scale value • of S-trip / with /2t characteristic / initial value • of S-trip / with /2t characteristic / Full-scale value Adjustable response value current / of the current- A 0.397	Protection class IP / on the front		IP40
Switching capacity class of the circuit breaker C Dissipation Active power loss • maximum W 4 Electricity Continuous current / Rated value / maximum A	Protective function of the overcurrent release		LSI
Switching capacity class of the circuit breaker C Dissipation Active power loss • maximum W 4 Electricity Continuous current / Rated value / maximum A			
Dissipation Active power loss • maximum W 4 Electricity Continuous current / Rated value / maximum Adjustable response value current / of the instantaneous short-circuit release / initial value Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value • at 40 °C / Rated value • at 60 °C / Rated value • at 70 °C / Rated value • at			C
Active power loss • maximum Maximum Maxi	Switching capacity class of the circuit breaker		C
Electricity Continuous current / Rated value / maximum Continuous current / Rated value A 63 Adjustable response value current / of the instantaneous short-circuit release / initial value Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value Operating current • at 40 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 65 °C / Rated value A 63 • at 65 °C / Rated value A 63 • at 70 °C / Rated value A 63 Auxiliary circuit Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Outlability Suitability for use Adjustable parameters Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A 12 • of the short-time delayed short-circuit release / initial value A 12 Adjustable delay time O O S-trip / with I2t characteristic / initial value S O.02 • of S-trip / with I2t characteristic / initial value S O.4 Adjustable response value current O O O O O O O O O	Dissipation		
Electricity Continuous current / Rated value / maximum Continuous current / Rated value A 63 Adjustable response value current / of the instantaneous short-circuit release / initial value Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value V 690 Operating current • at 40 °C / Rated value • at 50 °C / Rated value • at 65 °C / Rated value • at 65 °C / Rated value • at 70 °C / Rated value A 63 Auxiliary circuit Number of NC contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts O Suitability Suitability Suitability Suitability Suitabile parameters Adjustable parameters Adjustable parameters Adjustable parameters Adjustable delayed short-circuit release / initial value • of the short-time delayed short-circuit release / initial value • of the short-time delayed short-circuit release / initial value • of S-trip / with 12t characteristic / initial value • of S-trip / with 12t characteristic / initial value • of S-trip / with 12t characteristic / initial value • of S-trip / with 12t characteristic / Full-scale value Adjustable response value current / of the current- A 0.397	Active power loss		
Continuous current / Rated value / maximum	maximum	W	4
Continuous current / Rated value Adjustable response value current / of the instantaneous short-circuit release / initial value Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value Operating current • at 40 °C / Rated value • at 50 °C / Rated value • at 60 °C / Rated value • at 65 °C / Rated value • at 65 °C / Rated value • at 65 °C / Rated value • at 67 °C / Rated value • at 67 °C / Rated value • at 68 °C / Rated value • at 68 °C / Rated value • at 69 °C / Rated value • at 70 °C / Rated value Adjustablity Suitability Suitability Suitability Suitability Suitability system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • of the short-time delayed short-circuit release / a 1.5 initial value • of the short-time delayed short-circuit release / Full-scale value Adjustable delay time • of S-trip / with I2t characteristic / initial value • of S-trip / with I2t characteristic / Full-scale value Adjustable response value current / of the current- A 0.397	Electricity		
Adjustable response value current / of the instantaneous short-circuit release / initial value Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value • at 40 °C / Rated value • at 60 °C / Rated value • at 65 °C / Rated value • at 67 °C / Rated value • at 70 °C / Rated value A 63 Auxiliary circuit Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts O Suitability Suitability Suitability suse Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • of the short-time delayed short-circuit release / initial value • of the short-time delayed short-circuit release / Full-scale value Adjustable delay time • of S-trip / with I2t characteristic / initial value • of S-trip / with I2t characteristic / Full-scale value Adjustable response value current / of the current- A O 0.397	Continuous current / Rated value / maximum	Α	160
instantaneous short-circuit release / initial value Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value Operating current • at 40 °C / Rated value • at 50 °C / Rated value • at 60 °C / Rated value A 63 • at 65 °C / Rated value A 63 • at 70 °C / Rated value A 63 Auxiliary circuit Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts O Suitability Suitability for use Adjustable parameters Adjustable parameters Adjustable parameters Adjustable response value current • of 1-trip / Full-scale value • of the short-time delayed short-circuit release / initial value • of the short-time delayed short-circuit release / Full-scale value • of S-trip / with 12t characteristic / initial value • of S-trip / with 12t characteristic / Full-scale value Adjustable response value current / of the current- A 0.397	Continuous current / Rated value	Α	63
Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value V 690 Operating current • at 40 °C / Rated value • at 50 °C / Rated value • at 60 °C / Rated value • at 60 °C / Rated value • at 65 °C / Rated value • at 65 °C / Rated value • at 70 °C / Rated value A 63 Auxiliary circuit Number of NC contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts 0 Suitability Suitability Suitability Suitabile parameters Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • of the short-time delayed short-circuit release / initial value • of the short-time delayed short-circuit release / A Adjustable delay time • of S-trip / with 12t characteristic / Full-scale value Adjustable response value current / of the current- A 0.397	Adjustable response value current / of the	Α	12
Operating voltage • with AC / at 50/60 Hz / Rated value Operating current • at 40 °C / Rated value • at 50 °C / Rated value • at 60 °C / Rated value A 63 • at 65 °C / Rated value A 63 • at 70 °C / Rated value A 63 Auxillary circuit Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts O Suitability Suitability Suitability for use Adjustable parameters Adjustable response value current • of 1-trip / Full-scale value • of the short-time delayed short-circuit release / initial value • of the short-time delayed short-circuit release / Full-scale value • of S-trip / with 12t characteristic / initial value • of S-trip / with 12t characteristic / Full-scale value Adjustable response value current / of the current-	instantaneous short-circuit release / initial value		
with AC / at 50/60 Hz / Rated value Operating current at 40 °C / Rated value at 50 °C / Rated value A 63 at 63 °C / Rated value A 63 at 65 °C / Rated value A 63 at 70 °C / Rated value A 63 Auxiliary circuit Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts O Suitability Suitability for use System protection Adjustable parameters Adjustable parameters Adjustable response value current of the short-time delayed short-circuit release / initial value of the short-time delayed short-circuit release / Full-scale value Adjustable delay time of S-trip / with 12t characteristic / initial value of S-trip / with 12t characteristic / Full-scale value Adjustable response value current of S-trip / with 12t characteristic / Full-scale value Adjustable response value current of S-trip / with 12t characteristic / Full-scale value Adjustable response value current / of the current- A 0.397	Main circuit		
Operating current • at 40 °C / Rated value • at 50 °C / Rated value • at 60 °C / Rated value • at 60 °C / Rated value • at 60 °C / Rated value • at 65 °C / Rated value • at 70 °C / Rated value • at 70 °C / Rated value A 63 Auxiliary circuit Number of NC contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts 0 Suitability Suitability Suitability for use Adjustable parameters Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • of the short-time delayed short-circuit release / initial value • of the short-time delayed short-circuit release / A 1.5 full-scale value Adjustable delay time • of S-trip / with 12t characteristic / initial value • of S-trip / with 12t characteristic / Full-scale value Adjustable response value current / of the current- A 0.397	Operating voltage		
at 40 °C / Rated value at 50 °C / Rated value A 63 at 60 °C / Rated value A 63 at 60 °C / Rated value A 63 at 65 °C / Rated value A 63 at 70 °C / Rated value A 63 Auxiliary circuit Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts O Suitability Suitability Suitabile parameters Adjustable parameters Adjustable response value current of the short-time delayed short-circuit release / initial value of the short-time delayed short-circuit release / Full-scale value Adjustable delay time of S-trip / with 12t characteristic / initial value of S-trip / with 12t characteristic / initial value of S-trip / with 12t characteristic / Full-scale value Adjustable response value current / of the current- Adjustable response value current / of the current- Adjustable response value current / of the current- A 0.397	 with AC / at 50/60 Hz / Rated value 	V	690
at 50 °C / Rated value at 60 °C / Rated value A 63 at 65 °C / Rated value A 63 at 65 °C / Rated value A 63 at 70 °C / Rated value A 63 Auxiliary circuit Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts O Suitability Suitability Suitable parameters Adjustable parameters Adjustable response value current of the short-time delayed short-circuit release / initial value of the short-time delayed short-circuit release / Full-scale value Adjustable delay time of S-trip / with 12t characteristic / initial value of S-trip / with 12t characteristic / Full-scale value Adjustable response value current / of the current- A 0.397	Operating current		
at 60 °C / Rated value at 65 °C / Rated value A 63 at 70 °C / Rated value A 63 Auxiliary circuit Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts 0 Suitability Suitability Suitability for use Adjustable parameters Adjustable response value current of I-trip / Full-scale value of the short-time delayed short-circuit release / initial value of the short-time delayed short-circuit release / Full-scale value Adjustable delay time of S-trip / with 12t characteristic / initial value of S-trip / with 12t characteristic / Full-scale value Adjustable response value current / of the current- A 0.397	• at 40 °C / Rated value	Α	63
at 65 °C / Rated value at 70 °C / Rated value A 63 at 70 °C / Rated value A 63 Auxiliary circuit Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts 0 Suitability Suitability for use Adjustable parameters Adjustable response value current of I-trip / Full-scale value of the short-time delayed short-circuit release / initial value of the short-time delayed short-circuit release / Full-scale value Adjustable delay time of S-trip / with 12t characteristic / initial value of S-trip / with 12t characteristic / Full-scale value Adjustable response value current / of the current- Adjustable response value current / of the current- A 0.397	• at 50 °C / Rated value	Α	63
at 70 °C / Rated value A 63 Auxiliary circuit Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts 0 Suitability Suitability Suitability for use Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • of the short-time delayed short-circuit release / initial value • of the short-time delayed short-circuit release / Full-scale value Adjustable delay time • of S-trip / with I2t characteristic / initial value • of S-trip / with I2t characteristic / Full-scale value Adjustable response value current / of the current- A 0.397	• at 60 °C / Rated value	Α	63
Auxiliary circuit Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts 0 Suitability Suitability for use Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • of the short-time delayed short-circuit release / initial value • of the short-time delayed short-circuit release / Full-scale value • of S-trip / with I2t characteristic / initial value • of S-trip / with I2t characteristic / Full-scale value Adjustable response value current / of the current- Adjustable response value current / of the current-	• at 65 °C / Rated value	Α	63
Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts 0 Suitability Suitability Suitability or use Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • of the short-time delayed short-circuit release / initial value • of the short-time delayed short-circuit release / Full-scale value Adjustable delay time • of S-trip / with I2t characteristic / initial value • of S-trip / with I2t characteristic / Full-scale solution Adjustable response value current / of the current- Adjustable response value current / of the current-	• at 70 °C / Rated value	Α	63
Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts 0 Suitability Suitability Suitability or use Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • of the short-time delayed short-circuit release / initial value • of the short-time delayed short-circuit release / Full-scale value Adjustable delay time • of S-trip / with I2t characteristic / initial value • of S-trip / with I2t characteristic / Full-scale solution Adjustable response value current / of the current- Adjustable response value current / of the current-	Auxiliary circuit		
Suitability for use Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • of the short-time delayed short-circuit release / initial value • of the short-time delayed short-circuit release / A 1.5 Full-scale value Adjustable delay time • of S-trip / with I2t characteristic / initial value • of S-trip / with I2t characteristic / Full-scale value Adjustable response value current / of the current- A 0.397			0
Suitability for use Adjustable parameters Adjustable response value current of I-trip / Full-scale value of the short-time delayed short-circuit release / initial value of the short-time delayed short-circuit release / A 1.5 Full-scale value Adjustable delay time of S-trip / with I2t characteristic / initial value of S-trip / with I2t characteristic / Full-scale value Adjustable response value current / of the current- Adjustable response value current / of the current-	Number of NO contacts / for auxiliary contacts		0
Suitability for use Adjustable parameters Adjustable response value current of I-trip / Full-scale value of the short-time delayed short-circuit release / initial value of the short-time delayed short-circuit release / A 1.5 Full-scale value Adjustable delay time of S-trip / with I2t characteristic / initial value of S-trip / with I2t characteristic / Full-scale value Adjustable response value current / of the current- Adjustable response value current / of the current-	Suitability		
Adjustable response value current of I-trip / Full-scale value of the short-time delayed short-circuit release / initial value of the short-time delayed short-circuit release / A 1.5 Full-scale value Adjustable delay time of S-trip / with I2t characteristic / initial value of S-trip / with I2t characteristic / Full-scale value Adjustable response value current / of the current- A 0.397			system protection
Adjustable response value current of I-trip / Full-scale value of the short-time delayed short-circuit release / initial value of the short-time delayed short-circuit release / A 1.5 Full-scale value Adjustable delay time of S-trip / with I2t characteristic / initial value of S-trip / with I2t characteristic / Full-scale value Adjustable response value current / of the current- A 0.397	Adjustable parameters		
 of I-trip / Full-scale value of the short-time delayed short-circuit release / initial value of the short-time delayed short-circuit release / Full-scale value Adjustable delay time of S-trip / with I2t characteristic / initial value of S-trip / with I2t characteristic / Full-scale value Adjustable response value current / of the current- A 0.397 			
of the short-time delayed short-circuit release / initial value of the short-time delayed short-circuit release / A 10 Full-scale value Adjustable delay time of S-trip / with I2t characteristic / initial value s 0.02 of S-trip / with I2t characteristic / Full-scale value Adjustable response value current / of the current- A 0.397		Α	12
initial value • of the short-time delayed short-circuit release / Full-scale value Adjustable delay time • of S-trip / with I2t characteristic / initial value s 0.02 • of S-trip / with I2t characteristic / Full-scale s 0.4 value Adjustable response value current / of the current- A 0.397			
Full-scale value Adjustable delay time of S-trip / with I2t characteristic / initial value s 0.02 of S-trip / with I2t characteristic / Full-scale s 0.4 value Adjustable response value current / of the current- A 0.397			
Adjustable delay time	• of the short-time delayed short-circuit release /	Α	10
of S-trip / with I2t characteristic / initial value of S-trip / with I2t characteristic / Full-scale value Adjustable response value current / of the current- A 0.397	Full-scale value		
of S-trip / with I2t characteristic / Full-scale s value Adjustable response value current / of the current- A 0.397	Adjustable delay time		
value Adjustable response value current / of the current- A 0.397	• of S-trip / with I2t characteristic / initial value	S	0.02
Adjustable response value current / of the current- A 0.397	•	S	0.4
		Α	0.397

Product details		
Product component		
Trip indicator		No
• display		No
undervoltage release		No
Product property		
 for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof 		No
Product expansion / optional / motor drive		Yes
Product function		
Product function		
Intrinsic device protection		Yes
• communication function		No
Phase failure detection		No
• other measurement function		No
Accessories		
Manufacturer article number / of the supplied basic		3VA2163-7HN36-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		
• at 240 V / Rated value	kA	150
• at 415 V / Rated value	kA	110
● at 440 V / Rated value	kA	110
• at 500 V / Rated value	kA	85
• at 690 V / Rated value	kA	2.5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	150
• at 415 V / Rated value	kA	110
• at 440 V / Rated value	kA	110
• at 500 V / Rated value	kA	85
• at 690 V / Rated value	kA	2.5
Short-circuit current making capacity (Icm)		
• at 240 V / Rated value	kA	330
• at 415 V / Rated value	kA	242
• at 440 V / Rated value	kA	242
• at 500 V / Rated value	kA	187
• at 690 V / Rated value	kA	3.75
Connections		

Connections

Arrangement of electrical connectors / for main current circuit		Front terminal
Type of connectable conductor cross-section		
 of the round conductor terminal / stranded 		1 x (6-120 mm²)
Type of electrical connection / for main current circuit		Box terminal
Mechanical Design		
Height	mm	181

Mechanical Design		
Height	mm	181
Width	mm	105
Depth	mm	107
Mounting type		fixed mounting

Environmental conditions			
Ambient temperature			
during operation / minimum	°C	-25	
during operation / maximum	°C	70	
during storage / minimum	°C	-40	
 during storage / maximum 	°C	80	

Certificates			
Equipment marking			
• acc. to DIN EN 61346-2	Q		
● acc. to DIN EN 81346-2	Q		
• acc. to DIN EN 81346-2	Q 		

General Product Approval	EMC	Declaration of	Shipping
		Conformity	Approval











Shipping	other
Approval	



other

GL

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA21637HN360AA0

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

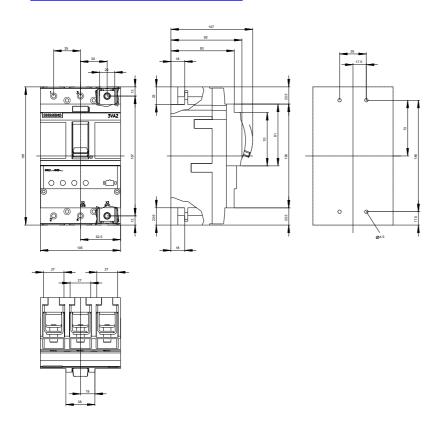
http://support.automation.siemens.com/WW/view/en/3VA21637HN360AA0/all

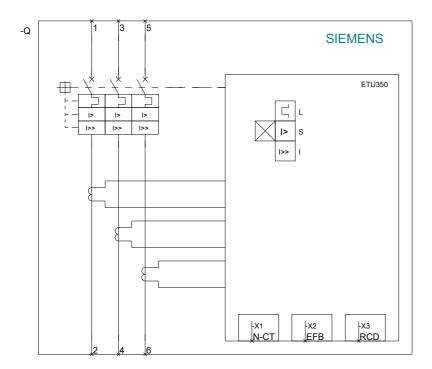
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21637HN360AA0

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications http://ausschreibungstexte.siemens.com/tiplv





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