# **SIEMENS**

## Datasheet

# 3VA1116-3EE36-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 3-POLE, LINE PROTECTION TM220, ATFM, IN=160A OVERLOAD PROTECTION IR=112A ...160A SHORT CIRCUIT PROTECTION II=10 X IN CABLE CONNECTION

Figure similar

product brand name		SENTRON
Product designation		Molded case circuit breaker
Design of the product		Line protection
Product variations		General Applications
Ground fault monitoring version		Without
Design of the auxiliary release		Without auxiliary release
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		TM220
General technical data		
Number of poles		3
Trip class / of the L-trip / with I2t characteristic / initial value		1
Trip class / of the L-trip / with I2t characteristic / Full- scale value		1
Electrical endurance (switching cycles)		
• at AC-1 / at 380/415 V / at 50/60 Hz		8 000
circuit-breaker / Design		3VA
Mechanical service life (switching cycles) / typical		15 000
/oltage		
Insulation voltage		
Rated value	V	800

Protection class		
Protective function of the overcurrent release		LI
Switching capacity		
Switching capacity class of the circuit breaker		N
Dissipation		
Active power loss	10/	20
• maximum	W	38
Electricity		
Operating current / at 45 °C / Rated value	А	160
Continuous current / Rated value / maximum	А	160
Continuous current		
Rated value	А	160
Adjustable response value current		
<ul> <li>of the current-dependent overload release /</li> </ul>	А	1
Full-scale value		
of the instantaneous short-circuit release / initial	A	10
value		000
Net weight	g	900
Main circuit		
Operating voltage		
• with AC / at 50/60 Hz / Rated value	V	690
<ul> <li>for DC / Rated value</li> </ul>	V	500
Operating current		
● at 40 °C / Rated value	А	160
● at 50 °C / Rated value	А	160
● at 55 °C / Rated value	А	158
• at 60 °C / Rated value	А	155
• at 65 °C / Rated value	А	153
• at 70 °C / Rated value	А	150
Auxiliary circuit		
Number of CO contacts		
• for auxiliary contacts		0
Suitability		system protection
Suitability for use		
Adjustable parameters		
Adjustable response value current		
• of I-trip / Full-scale value	А	10
<ul> <li>for N-conductor protection / initial value</li> </ul>	А	0
<ul> <li>for N-conductor protection / Full-scale value</li> </ul>	А	0

Adjustable response value current / of the current- dependent overload release / initial value	А	0.7
-	_	
Appearance		
Product details		
Product component		
Trip indicator		No
• display		No
Voltage trigger		No
<ul> <li>undervoltage release</li> </ul>		No
<ul> <li>undervoltage release with leading contact</li> </ul>		No
Product property		
<ul> <li>for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof</li> </ul>		No
Product expansion		
• optional		
— motor drive		Yes
Product function		
Product function		
<ul> <li>Intrinsic device protection</li> </ul>		Yes
<ul> <li>communication function</li> </ul>		No
<ul> <li>Phase failure detection</li> </ul>		No
<ul> <li>other measurement function</li> </ul>		No
Accessories	_	
Manufacturer article number / of the supplied basic switch		3VA1116-3EE36-0AA0
Short circuit		
Operational short-circuit current breaking capacity		
(lcs)		
● at 2//0 \/ / Rated value	kA	36
at 240 V / Rated value	kA kA	36 25
• at 415 V / Rated value	kA	25
<ul> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> </ul>	kA kA	25 16
<ul> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> </ul>	kA kA kA	25 16 8
<ul> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul>	kA kA	25 16
<ul> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Maximum short-circuit current breaking capacity (Icu)	kA kA kA kA	25 16 8 5
<ul> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Maximum short-circuit current breaking capacity (Icu) <ul> <li>at 240 V / Rated value</li> </ul>	kA kA kA kA	25 16 8 5 36
<ul> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Maximum short-circuit current breaking capacity (Icu) <ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> </ul>	kA kA kA kA kA	25 16 8 5 36 25
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EAC		EG-Konf.		GL			
Approval	other					other	
General Product	EMC	Declaration Conformity			oping roval	other	
acc. to DIN EN		_			Q		
<ul> <li>acc. to DIN EN</li> </ul>	61346-2				Q		
Reference code							
Certificates							
<ul> <li>during storage / maximum</li> </ul>		°C		80			
<ul> <li>during storage</li> </ul>	/ minimum		°C		-40		
<ul> <li>during operation</li> </ul>	on / maximum		°C		70		
<ul> <li>during operation</li> </ul>	on / minimum		°C		-25		
Ambient temperature							
invironmental conc	litions						
Mounting type					fixed mount	ing	
Depth			mm		70		
Width			mm		76.2		
Height			mm		130		
lechanical Design							
<ul> <li>for main currer</li> </ul>					Box termina	al	
Design of the electric					,		
Type of connectable conductor cross-section • of the round conductor terminal / stranded				1 x (1.5 - 70 mm²)			
for main current circuit				Front terminal			
Arrangement of elec					Front termir		
Connections			_				
• at 690 V / Rate			NA		7.5		
• at 415 V / Rate			кА kA		52.5 7.5		
			kA		52.5		

### Further information

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/3VA11163EE360AA0

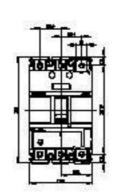
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11163EE360AA0/all

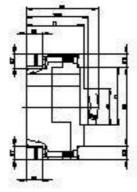
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11163EE360AA0

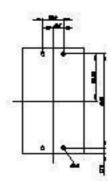
# CAx-Online-Generator

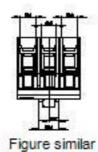
http://www.siemens.com/cax

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









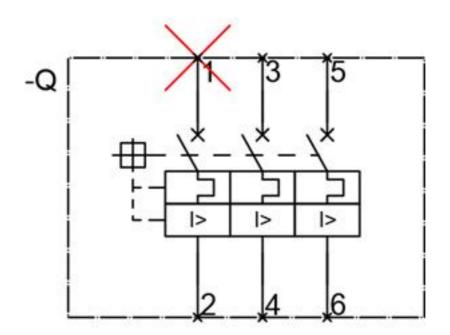


Figure similar

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