## **SIEMENS**

## Data sheet



## 3VA2163-6HM46-0AA0

CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=85KA @ 415 V 4POLE, LINE PROTECTION ETU330, LIG, IN=63A OVERLOAD PROTECTION IR=25A ...63A SHORT CIRCUIT PROTECTION II=1,5...12 X IN NEUTRAL PROTECTION ADJUSTABLE(OFF,100%) GROUNDFAULTPROTECTION IG=0,2... 1 X IN, TG=0,1/0,3MS 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		Summation current formation L + N conductor					
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		ETU330					
General technical data							
Number of poles		4					
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					
Total disconnection time / for G-tripping / with standard characteristic / initial value	S	0.1					
Total disconnection time / for G-tripping / with standard characteristic / Full-scale value	S	0.3					
circuit-breaker / Design		3VA					
Mechanical service life (switching cycles) / typical		20 000					

Voltage		
Insulation voltage / Rated value	V	800
Protection class		
Protection class IP	_	IP40
Protection class IP / on the front	-	IP40
Protective function of the overcurrent release	_	LIG
Switching capacity	_	
Switching capacity class of the circuit breaker	_	Н
Dissipation Active power loss	_	
	W	4
• maximum	vv	7
Electricity		
Continuous current / Rated value / maximum	А	160
Continuous current / Rated value	A	63
Adjustable response value current / of the	A	1.5
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	А	63
● at 50 °C / Rated value	А	63
● at 60 °C / Rated value	А	63
● at 65 °C / Rated value	А	63
• at 70 °C / Rated value	А	63
Auxiliary circuit	_	
Number of NC contacts / for auxiliary contacts	_	0
Number of NO contacts / for auxiliary contacts	_	0
Suitability Suitability for use	_	system protection
-		
Adjustable parameters		
Adjustable response value current		
<ul> <li>for G-tripping / with standard characteristic / initial value</li> </ul>	A	0.25
<ul> <li>for G-tripping / with standard characteristic / Full-scale value</li> </ul>	А	1
<ul> <li>of I-trip / Full-scale value</li> </ul>	А	12
Adjustable response value current / of the current- dependent overload release / initial value	А	0.397

Product details		
Product component		
Trip indicator		No
• display		No
undervoltage release		No
Product property	-	
<ul> <li>of the circuit breaker with tripping unit / Tripping characteristic adjustable</li> </ul>		Yes
<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	_	3VA2163-6HM46-0AA0
Short circuit Operational short-circuit current breaking capacity		
(lcs)		
• at 240 V / Rated value	kA	110
• at 415 V / Rated value	kA	85
● at 440 V / Rated value	kA	85
• at 500 V / Rated value	kA	55
• at 690 V / Rated value	kA	2.5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	110
• at 415 V / Rated value	kA	85
• at 440 V / Rated value	kA	85
• at 500 V / Rated value	kA	55
• at 690 V / Rated value	kA	2.5
Short-circuit current making capacity (Icm)		
• at 240 V / Rated value	kA	242
• at 415 V / Rated value	kA	187
• at 440 V / Rated value	kA	187
<ul> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> </ul>	kA kA	187 121

		Front termin	al		
		1 x (6-120 mm²)			
_		Box terminal			
mm		181			
mm		140			
mm		107			
_		fixed mounting			
°C		-25			
°C		70			
°C		-40			
°C		80			
-					
	Q				
		Q			
	FM		Declaration of	other	
			Conformity		
		other		other	
			EG-Konf		
	°C °C °C	mm mm °C °C °C °C	mm       1 x (6-120 m Box terminal         mm       181         mm       140         mm       107         fixed mounti         °C       -25         °C       70         °C       -40         °C       40         °C       80	mm       181         mm       140         mm       107         mm       107         fixed mounting         °C       -25         °C       70         °C       -40         °C       80	

## Further information

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

Industry Mall (Online ordering system)

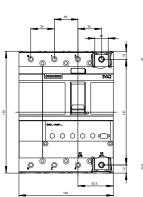
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA21636HM460AA0

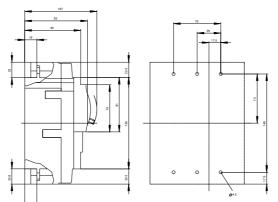
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21636HM460AA0/all

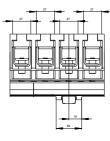
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA21636HM460AA0

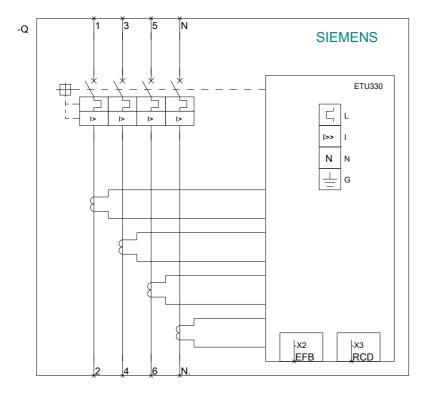
CAx-Online-Generator http://www.siemens.com/cax

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









last modified:

11.03.2015