

CIRCUIT BREAKER 3VT1 STANDARD BREAKING CAPACITY ICU=25KA, 415V AC 3-POLE; STARTER COMBINATION ELECTRONIC TRIP UNIT TM, LIN IN= 160A RATED CURRENT II= 800... 1600A, SHORT-CIRCUIT PROTECTION W/O AUXILIARY TRIP UNIT W/O AUXILIARY/ALARM SWITCH WITHOUT AUXILIARY RELEASE WITHOUT AUXILIARY/ALARM SWITCH

Technical data:		
<b>Width</b>	mm	75
<b>Height</b>	mm	130
<b>Depth</b>	mm	80
<b>Acceptability for application</b>		starter combinations
<b>Design of the overcurrent release</b>		M
<b>Product function / ground-fault protection</b>		No
<b>Continuous current / rated value</b>	A	160
<b>Operating voltage / for main current circuit</b>		
• at 50 Hz / for AC / maximum	V	690
• at 60 Hz / for AC / maximum	V	690
• for DC / maximum	V	250
<b>Impulse voltage resistance / rated value</b>	kV	8
<b>Number of poles</b>		3
<b>Active power loss / maximum</b>	W	15
<b>Operating cycles / maximum</b>	1/h	120
<b>Operating frequency</b>		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
<b>Breaking capacity limit short-circuit current (I<sub>cu</sub>)</b>		
• at 240 V / rated value	kA	40
• at 415 V / rated value	kA	25
• at 500 V / rated value	kA	12
• at 690 V / rated value	kA	6
<b>Breaking capacity operating short-circuit current (I<sub>cs</sub>)</b>		
• at 240 V / rated value	kA	20
• at 415 V / rated value	kA	13

<ul style="list-style-type: none"> <li>• at 500 V / rated value</li> <li>• at 690 V / rated value</li> </ul>	kA	6
	kA	3
<b>Ultimate short-circuit current making capacity (I<sub>cm</sub>) / at 415 V / rated value</b>	kA	52
<b>Adjustable response current / of the non-delayed short-circuit release</b>		
<ul style="list-style-type: none"> <li>• initial value</li> </ul>	A	800
<ul style="list-style-type: none"> <li>• final value</li> </ul>	A	1,600
<b>Type of mounting</b>		fixed mounting
<b>Design of the electrical connection / for main current circuit</b>		box terminals
<b>Arrangement of electrical connectors / for main current circuit</b>		front side
<b>Number of NC contacts / for auxiliary contacts</b>		0
<b>Number of NO contacts / for auxiliary contacts</b>		0
<b>Number of change-over switches / for auxiliary contacts</b>		0
<b>Product component</b>		
<ul style="list-style-type: none"> <li>• undervoltage release mechanism</li> </ul>		No
<ul style="list-style-type: none"> <li>• Voltage trigger</li> </ul>		No
<ul style="list-style-type: none"> <li>• undervoltage release with leading contact</li> </ul>		No
<b>Suitability for use / circuit breaker</b>		Yes
<b>Item designation</b>		
<ul style="list-style-type: none"> <li>• according to DIN EN 61346-2</li> </ul>		Q
<b>Ambient temperature</b>		
<ul style="list-style-type: none"> <li>• during operating</li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• minimum</li> </ul> </li> </ul>	°C	-40
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• maximum</li> </ul> </li> </ul>	°C	55
<ul style="list-style-type: none"> <li>• during storage</li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• minimum</li> </ul> </li> </ul>	°C	-40
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• maximum</li> </ul> </li> </ul>	°C	55
<b>Derating temperature / for the rated value of the continuous current</b>	°C	40
<b>Protection class IP</b>		IP40
<b>Product function</b>		
<ul style="list-style-type: none"> <li>• overload protection</li> </ul>		Yes
<ul style="list-style-type: none"> <li>• for zero conductors / short-circuit and overload protection</li> </ul>		No
<b>mounting position</b>		with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back
<b>Mechanical operating cycles as operating time / typical</b>		20,000
<b>Electrical operating cycles as operating time / typical</b>		6,000

#### Certificates/approvals:

General Product Approval

other



CCC



GOST

[other](#)

#### Further information:

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

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

##### Industry Mall (Online ordering system)

<http://www.siemens.com/lowvoltage/mall>

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

<http://support.automation.siemens.com/WW/view/en/3VT1716-2DB36-0AA0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VT1716-2DB36-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VT1716-2DB36-0AA0)

##### CAX-Online-Generator

<http://www.siemens.com/cax>

last change:

Feb 11, 2013