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CIRCUIT-BREAKER VL160X N STANDARD BREAKING CAPACITY ICU=55KA / 415 V AC 3 POLE, LINE PROTECTION OVERCURRENT RELEASE TM, LI IN=16A, RATED CURRENT IR=16A, OVERLOAD II=300A, SHORT-CIRCUIT

General technical data:		
Number of poles		3
Design of the overcurrent release		TM
Acceptability for application		system protection
Electrical operating cycles as operating time / typical		10,000
Mechanical operating cycles as operating time / typical		20,000
Active power loss / maximum	W	70
Product component		
• auxiliary switch		No
• Voltage trigger		No
• undervoltage release mechanism		No
• undervoltage release with leading contact		No
Product function		
• of the thermal overload release		fixed
• ground-fault protection		No
• for zero conductors / short-circuit and overload protection		No
• overload protection		Yes
Operating cycles / maximum	1/s	120
Protection class IP		IP20
Protective function of the overcurrent release		LI
Impulse voltage resistance / rated value	kV	8
Ambient temperature		
• during operating		
• minimum	°C	-25 ...
• maximum	°C	70
• during storage		
• minimum	°C	-40
• maximum	°C	50
Main circuit:		
Insulation voltage / for AC / rated value	V	800

Operating frequency		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Item designation		
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		Q
• according to DIN EN 61346-2		Q
Operating voltage		
• for main current circuit		
• at 50 Hz / for AC		
• maximum	V	690
• at 60 Hz / for AC		
• maximum	V	690
• for DC		
• maximum	V	500
Operating current		
• at 40 °C / rated value	A	16
• at 50 °C / rated value	A	16
• at 60 °C / rated value	A	14.8
• at 70 °C / rated value	A	13.8
Continuous current / rated value	A	16
Derating temperature / for the rated value of the continuous current	°C	50

Auxiliary circuit:

Number of NC contacts / for auxiliary contacts

0

Number of NO contacts / for auxiliary contacts

0

Short-circuit:

Adjustable response current

• of the current-dependent overload release

• initial value

A 16 ...

• final value

A 16

• of the non-delayed short-circuit release

• initial value

A 300 ...

• final value

A 300

Breaking capacity limit short-circuit current (I_{cu}) / at 415 V / rated value

kA 55

Installation/mounting/dimensions:

Type of mounting

fixed mounting

Height

mm 157.5

Width	mm	104.5
Depth	mm	106.5

Connections:

Arrangement of electrical connectors / for main current circuit		front side
Design of the electrical connection / for main current circuit		box terminals
Type of the connectable conductor cross-section		
<ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> • with flexible busbar • solid • finely stranded / with conductor end processing • stranded • for auxiliary contacts <ul style="list-style-type: none"> • solid • finely stranded / with conductor end processing 		12 x 10 mm 2,5 ... 95 mm ² 2,5 ... 50 mm ² 2,5 ... 95 mm ² 0,75 ... 1.5 mm ² 0.75 ... 1.0 mm ²

Certificates/approvals:

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/3VL1796-1DA33-0AA0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL1796-1DA33-0AA0

CAX-Online-Generator

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

last change:

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