

CIRCUIT-BREAKER VL 250 UL TYPE FG (CAT NO. NFK3T250) NON-INTERCHANGEABLE FRAME W. APPROBATION CIRCUIT-BREAKER ACC. UL489 STANDARD SWITCHING CAPACITY 3-POLE, NEMA RATING 35KA@480V AND 18KA@600/347V (MOLDED CASE CIRCUIT BREAKER) OVERCURRENT RELEASE ETU, LSI TU= 40 DEGR. CELSIUS IN=250A, RATED CURRENT ISD=1,5-10 X IR, II=11 X IN SHORT-CIRCUIT PROTECTION IR=70-250A OVERCURRENT REL. F. PLANT PROTECTION W/O CONNECTION ACCESSORIES

Model		
Type of the driving mechanism / motor drive		No
Design of the overcurrent release		ETU545
General technical data		
Number of poles		3
Size of the circuit-breaker		3VL3 UL
Electrical endurance (switching cycles) / typical		10 000
Usage category		A
Performance class for circuit breaker		N
Mechanical service life (switching cycles) / typical		20 000
Equipment marking / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750		Q
Operating frequency / maximum	1/s	120
Voltage		
Rated operational voltage Ue / max.	V	690
Insulation voltage		
• rated value	V	800
• at AC / rated value	V	800
Surge voltage resistance / rated value	kV	8
Protection class		
Protection class IP		IP20
Protective function of the overcurrent release		LSI
Dissipation		
Power loss [W]		
• maximum	W	60
Electricity		
Continuous current / rated value	A	250

Derating temperature / for the rated value of the continuous current	°C	40
• acc. to UL 489		

Main circuit

Operating frequency		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Operating voltage		
• for main current circuit / at AC / at 50 Hz / acc. to UL 489 / maximum	V	600
• for main current circuit / at AC / at 50 Hz / maximum	V	690
• for main current circuit / at AC / at 60 Hz / acc. to UL 489 / maximum	V	600
• for main current circuit / at AC / at 60 Hz / maximum	V	690
Operating current		
• at 40 °C / rated value	A	250
• at 50 °C / rated value	A	237.5
• at 55 °C / rated value	A	200
• at 60 °C / rated value	A	200

Auxiliary circuit

Number of CO contacts / for auxiliary contacts		0
Number of NC contacts / for auxiliary contacts		1
Number of NO contacts / for auxiliary contacts		1

Suitability

Suitability for use		system/generator protection
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Product details

Product component		
• Trip indicator		No
• Auxiliary switch		Yes
• Voltage trigger		No
• undervoltage release		No
• undervoltage release with leading contact		No
Product extension / optional / motor drive		Yes

Product function

Product function		
• of thermal overload trip unit		adjustable
• Ground fault protection		No
• for neutral conductors / Short-circuit and overload proof		No

- Overload protection

Yes

Short circuit

Operational short-circuit current breaking capacity (Ics)

- at 240 V / rated value

kA

65

Maximum short-circuit current breaking capacity (Icu)

- at 240 V / rated value
- at 480 V / acc. to NEMA / rated value

kA

65

kA

35

Connections

Arrangement of electrical connectors / for main current circuit

front side

Type of electrical connection / for main current circuit

without connection accessoires

Mechanical Design

Height

mm

185.5

Width

mm

104.5

Depth

mm

106.5

Mounting type

fixed mounting

Environmental conditions

Ambient temperature

- during operation / minimum
- during operation / maximum
- during storage / minimum
- during storage / maximum

°C

-25

°C

70

°C

-40

°C

80

Certificates

Certificate of suitability

UL standard switching capacity (N), non-interchangeable

Equipment marking

- acc. to DIN EN 61346-2

Q

General Product Approval

EMC



CCC



CSA

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UL



C-TICK

Declaration of
Conformity

Test
Certificates

Shipping
Approval

other



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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/3VL35251PE300AB1>

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

<http://support.automation.siemens.com/WW/view/en/3VL35251PE300AB1/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL35251PE300AB1

CAX-Online-Generator

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

Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>

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