

● UL 489 Listed Earth Leakage Circuit Breakers (Harmonic Surge Ready)

Frame (A)		50		100		125		250					
Model		NV50-SVFU		NV100-CVFU		NV125-SVU		NV125-HVU		NV250-SVU		NV250-HVU	
Image													
Rated current In (A)		(5) (10) 15 20 30 40 50		60 (70) 75 (80) (90) 100		15 20 30 (40) 50 60 75 100		125		125 150 175 200 225		250	
Rated ambient temperature 40°C													
Number of poles		2 3		3		3		3		3		3	
Phase line (*1)		1φ2W 3φ3W, 1φ2W		3φ3W, 1φ2W		3φ3W, 1φ2W		3φ3W, 1φ2W		3φ3W, 1φ2W		3φ3W, 1φ2W	
Rated operational voltage AC V		120-240		120-240		120-480		120-480		120-480		120-480	
UL 489		120-240		120-240		120-480		120-480		120-480		120-480	
IEC 60947-2		100-240		100-440		100-440		100-440		100-440		100-440	
EN 60947-2		100-240		100-440		100-440		100-440		100-440		100-440	
Rated current sensitivity IΔn mA		30 50		30, 50, 100/200/500 selectable		30, 50, 100/200/500 selectable		30, 50, 100/200/500 selectable		30, 50, 100/200/500 selectable		30, 50, 100/200/500 selectable	
Pickup current, UL 1053		75% of IΔn		75% of IΔn		75% of IΔn		75% of IΔn		75% of IΔn		75% of IΔn	
Max. operating time (s) at 5IΔn (*4)		0.04		0.04		0.04		0.04		0.04		0.04	
Earth leakage indication system		Display window		Mechanical type (button)		Mechanical type (button)		Mechanical type (button)		Mechanical type (button)		Mechanical type (button)	
Rated short-circuit breaking capacities (kA)		480V 240V 120V		-		30 50 50		30 50 50		50 100 100		35 65 65	
UL 489		-		-		-		-		-		-	
CSA C22.2 No.5-02		14		14		14		14		14		14	
IEC 60947-2		-		10/5		10/5		10/5		10/5		10/5	
EN 60947-2		-		10/5		10/5		10/5		10/5		10/5	
(Icu/Ics)		440V 400V 230V 100V		7.5/4 10/5 15/8 15/8		10/5 30/15 30/15 15/8		30/15 30/15 30/15 50/25		50/25 50/25 50/25 100/50		36/18 36/18 36/18 65/33	
Rated impulse withstand voltage Uimp (kV)		4 6		6		6		6		6		6	
Suitability for isolation		Compatible		Compatible		Compatible		Compatible		Compatible		Compatible	
Reverse connection (below 240VAC)		-		Possible		Possible		Possible		Possible		Possible	
Utilization category		A		A		A		A		A		A	
Pollution degree		2		2		2		2		2		2	
EMC environment condition (environment A or B)		A		A		A		A		A		A	
Overall dimensions (mm)				a: 36, b: 120, c: 68, ca: 90		a: 75, b: 150, c: 68, ca: 90		a: 90, b: 160, c: 68, ca: 90		a: 90, b: 160, c: 68, ca: 92		a: 105, b: 185, c: 68, ca: 92	
Mass of front-face type (kg)		0.4 0.5		0.9		1.2		1.2		1.8		1.8	
Installation and connections		Screw terminal (AMP-N)		●		●		●		●		●	
Front (F)		Solderless terminal (SL)		-		-		-		-		-	
Bar (BAR)		716		-		-		-		-		-	
Power supply solderless load bar (SLBAR)		-		●(*5)		●(*6)		●(*6)		●(*6)		●(*6)	
Alarm switch (AL)		-		●(*8)		●(*8)		●(*8)		●(*8)		●(*8)	
Auxiliary switch (AX)		-		●(*8)		●(*8)		●(*8)		●(*8)		●(*8)	
Shunt trip (SHT)		-		●(*8)		●(*8)		●(*8)		●(*8)		●(*8)	
Undervoltage trip (UVT)		-		●(*8)		●(*8)		●(*8)		●(*8)		●(*8)	
With lead-wire terminal block (SLT)		737		-		-		-		-		-	
Test button module (TBM)		738		●(*9)		●(*9)		●(*9)		●(*9)		●(*9)	
Mechanical interlock (MI)		752		-		-		-		-		-	
Handle lock device (HL)		750		●		●		●		●		●	
External operating handle (F)		740		●		●		●		●		●	
Terminal cover (V)		740		●		●		●		●		●	
Large terminal cover (TC-L)		744		●		●		●		●		●	
Small terminal cover (TC-S)		745		●(*3)		-(*3)		-(*3)		-(*3)		-(*3)	
IEC 35mm rail mounting adapters		759		Standard accessory		Standard accessory		-		-		-	
CE marking		TUV approval		TUV approval		TUV approval		TUV approval		TUV approval		TUV approval	
CCC recognition		Recognition in process		Recognition in process		Recognition in process		Recognition in process		Recognition in process		Recognition in process	
Automatic tripping device		Thermal-magnetic		Thermal-magnetic		Thermal-magnetic		Thermal-magnetic		Thermal-magnetic		Thermal-magnetic	
Trip button		Equipped		Equipped		Equipped		Equipped		Equipped		Equipped	
Page of Characteristics and dimensions		818		820		822		822		826		826	

- Notes: \*1 If using a 3-pole earth leakage circuit breaker as a 1-pole 2-phase device, connect the left and right poles and not the central pole.  
 \*2 These are different from general models in specifications. Consult us for the details.  
 \*3 The standard structure conforms to IP20 (finger protection).  
 \*4 The maximum operating time is 0.1 according to UL 1053.  
 \*5 The circuit breakers with busbar terminals have insulation barriers.  
 \*6 Circuit breakers for power supply solderless load screw terminal (SL/AMP-N) are available. In this case, a bar terminal is not provided on the load side.  
 \*7 Circuit breakers for 100 V AC do not have obtained CCC certificate.  
 \*8 These cassette type accessories can be installed by the customer. They can be installed with their side faces in close contact with circuit breakers (except NV50-SVFU and UVT).  
 \*9 Standard type is SLT equipped.

Remarks: 1. Products with rated current parenthesized are produced when an order is placed.

Rated operational voltage	Applicable circuit voltage	Available voltage range
120-240V (UL)	120/240V	66-264V
120-240-480V (UL)	120/240/480V	66-528V
240V (UL)	240V	132-264V
100-230V (IEC)	100/110/200/220/230V	85-253V
100-240V (IEC)	100/110/200/220/230/240V	85-264V
100-230-400-440V (IEC)	100/110/200/220/230/240/254/265/380/400/415/440V	85-484V
230-400-440V (IEC)	230/240/254/265/380/400/415/440V	195-484V

US UL Standard 489  
 UL File No.E167691 Body  
 UL File No.E108284 Accessories

Canada CSA Standard  
 C22.2 No.144  
 C22.2 No.5