

Frame (A)		30			32			50						100			225		
Model		NF32-SV						NF63-CV			NF63-SV			NF125-SV			NF250-SV		
		A	200/220V kW	400/440V kW	A	200/220V kW	400/440V kW	A	200/220V kW	400/440V kW	A	200/220V kW	400/440V kW	A	200/220V kW	400/440V kW	A	200/220V kW	400/440V kW
Rated current In (A) Rated motor capacity (kW) Rated ambient temperature 40°C (45°C for marine use)	25	5.5	11	32	7.5	15	45	11	22	7.1	1.5	-	100	-	55	225	55	110	
	16	3.7	7.5				40	-	18.5	5	-	2.2	90	22	45	200	-	-	
	12	-	5.5				32	7.5	15	4	0.75	1.5	71	18.5	37	175	45	90	
	10	2.2	-				25	5.5	11				63	15	30	150	37	75	
	8	-	3.7				16	3.7	7.5				45	11	22	125	30	-	
	7.1	1.5	-				12	-	5.5				(40)	-	18.5				
	5	-	2.2				10	2.2	-				32	7.5	15				
	4	0.75	1.5				8	-	3.7				(25)	5.5	11				
													(16)	3.7	7.5				
													(12.5)	-	5.5				
Number of poles		3			3			3			3			3			3		
Rated insulation voltage Ui (V)		500			500			500			500			500			500		
Rated short-circuit breaking capacities (kA)	IEC 60947-2 EN 60947-2 (Icu/Ics)	AC	440V	2.5/2.5	2.5/2.5	2.5/2.5	2.5/2.5	7.5/7.5	7.5/7.5	25/25	36/36								
			415V	2.5/2.5	2.5/2.5	2.5/2.5	2.5/2.5	7.5/7.5	7.5/7.5	30/30	36/36								
			400V	5/5	5/5	5/5	5/5	7.5/7.5	7.5/7.5	30/30	36/36								
			380V	5/5	5/5	5/5	5/5	7.5/7.5	7.5/7.5	30/30	36/36								
			230V	7.5/7.5	7.5/7.5	7.5/7.5	7.5/7.5	15/15	15/15	50/50	85/85								
Rated impulse withstand voltage Uimp (kV)		8			8			8			8			8			8		
Current		AC			AC			AC			AC			AC			AC		
Suitability for isolation		Compatible			Compatible			Compatible			Compatible			Compatible			Compatible		
Reverse connection		Possible			Possible			Possible			Possible			Possible			Possible		
Number of operating cycles	Without current	10,000			10,000			10,000			15,000			25,000			25,000		
	With current (440VAC)	6,000			6,000			6,000			8,000			10,000			10,000		
Utilization category		A			A			A			A			A			A		
Pollution degree		3			3			3			3			3			3		
EMC environment condition (environment A or B)		N/A			N/A			N/A			N/A			N/A			N/A		
Overall dimensions (mm)		a	75	75	75	75	75	75	75	90	105								
		b	130	130	130	130	130	130	130	130	165								
		c	68	68	68	68	68	68	68	68	68								
		ca	90	90	90	90	90	90	90	90	92								
Mass of front-face type (kg)		0.65			0.65			0.65			0.7			1.0			1.6		
Installation and connections	Front connection (F)	Page	●Screw terminal	●Screw terminal	●Screw terminal	●Screw terminal	●Screw terminal	●Screw terminal	●Screw terminal	●Screw terminal									
	Solderless (BOX) terminal (SL)		-	-	-	-	-	-	-	-									
	Rear (B)	716	●Round stud	●Round stud	●Round stud	●Round stud	●Round stud	●Round stud	●Bar stud	●Bar stud									
	Plug-in (PM)		●	●	●	●	●	●	●	●									
Cassette-type accessories	Alarm switch (AL)		● (*1)	● (*1)	● (*1)	● (*1)	● (*1)	● (*1)	● (*1)	● (*1)									
	Auxiliary switch (AX)		● (*1)	● (*1)	● (*1)	● (*1)	● (*1)	● (*1)	● (*1)	● (*1)									
	Shunt trip (SHT)	725	● (*1)	● (*1)	● (*1)	● (*1)	● (*1)	● (*1)	● (*1)	● (*1)									
	Undervoltage trip (UVT)		● (*1)	● (*1)	● (*1)	● (*1)	● (*1)	● (*1)	● (*1)	● (*1)									
	With lead-wire terminal block (SLT)	737	●	●	●	●	●	●	●	●									
External accessories	Enclosure	Closed (S)	●	●	●	●	●	●	●	●									
		Dustproof (I)	753	●	●	●	●	●	●	●									
		Waterproof (W)		●	●	●	●	●	●	●									
	Electrical operation device (NFM)	756	-	-	-	-	-	● (*3)	● (*3)	● (*3)									
	Mechanical interlock (MI) (*2)	Panel mounting	752	●	●	●	●	●	●	●									
		Breaker mounting		●	●	●	●	●	●	●									
	Handle lock device	LC		●	●	●	●	●	●	●									
		HL	750	●	●	●	●	●	●	●									
		HL-S		●	●	●	●	●	●	●									
	External operating handle	(F)	740	●	●	●	●	●	●	●									
(V)			●	●	●	●	●	●	●										
Terminal cover (TC-L, TC-S, TTC, BTC, PTC)	744	●	●	●	●	●	●	●	●										
Rear stud (B-ST)	718	●	●	●	●	●	●	●	●										
Plug-in (PM)		●	●	●	●	●	●	●	●										
IEC 35mm rail mounting adapters	759	●	●	●	●	●	●	●	●										
CE marking		Self-declaration			Self-declaration			Self-declaration			Self-declaration			Self-declaration			TÜV approval		
CCC recognition		Recognition in process			Recognition in process			Recognition in process			Recognition in process			Recognition in process			Recognition in process		
Marine use approval (NK, LR, ABS, GL)		☆			☆			☆			☆			☆			☆		
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		762			762			762			764			768			768		

Notes: *1 The cassette type design makes it easy for customer to install. Available for installation on side (excluding UVT).

*2 Not isolation compatible.

*3 Place an order of other models in conjunction with the circuit breaker.

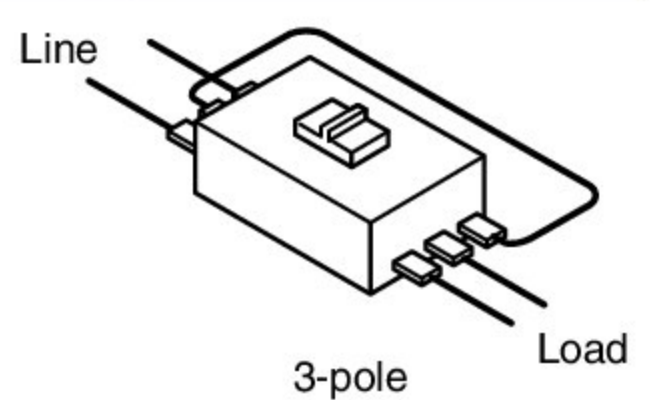
- Remarks:
1. The motor circuit breakers do not have an applicable rated motor capacity. Select a motor circuit breaker based on the total load current of the motor.
 2. Products with rating parenthesized are produced when an order is placed.
 3. Specify "P-LT" when using a plug-in product with a lead wire terminal block.
 4. The circuit breaker has the rated short circuit breaking capacity specified in the shaded cells.

●UL 489 Listed Molded Case Circuit Breakers

Frame (A)		50		100		125									
Model		NF50-SVFU		NF100-CVFU		NF125-SVU		NF125-HVU							
Image															
Rated current In (A) (*4)		(3) 5 10 15 20 30		60 (70) 75 (80) (90)		15 20 30 40 50 60		15 20 30 40 50 60							
Rated ambient temperature 40°C (IEC 30°C)		40 50		100		(70) 75 (80) (90) 100		(70) 75 (80) (90) 100							
Number of poles		2 3		2 3		2 3		2 3							
Rated short-circuit breaking capacities (kA)	UL 489 CSA C22.2 No.5-02	Rated voltage	AC (V)	240		240		480		480		600Y/347		600Y/347	
			DC (V)	-		-		-		-		-		-	
		AC	600Y/347V	-		-		-		-		18		18	
			480V	-		-		30		30		50		50	
			480Y/277V	-		-		-		-		-		-	
			240V	14		14		50		50		100		100	
	DC	120V	-		-		-		-		-		-		
		60V	-		-		-		-		-		-		
	IEC 60947-2 EN 60947-2 (Icu/Ics)	Rated insulation voltage Ui (V)	440		600		690		690		690		690		
			690V	-		-		8/4		8/4		10/5		10/5	
		AC	500V	-		7.5/4		18/9		18/9		25/13		25/13	
			440V	7.5/4		10/5		30/15		30/15		50/25		50/25	
			415V	10/5		10/5		30/15		30/15		50/25		50/25	
			400V	10/5		10/5		30/15		30/15		50/25		50/25	
380V			10/5		10/5		30/15		30/15		50/25		50/25		
230V			15/8		15/8		50/25		50/25		100/50		100/50		
DC		250V	-		-		-		-		-		-		
		60V	-		-		-		-		-		-		
Rated impulse withstand voltage Uimp (kV)		6		8		8		8		8		8			
Current (*1)		AC		AC		AC		AC		AC		AC			
Suitability for isolation		Compatible		Compatible		Compatible		Compatible		Compatible		Compatible			
Reverse connection		-		Possible		Possible		Possible		Possible		Possible			
Utilization category		A		A		A		A		A		A			
Pollution degree		3		3		3		3		3		3			
EMC environment condition (environment A or B)		N/A		N/A		N/A		N/A		N/A		N/A			
Overall dimensions (mm)		a	36	54	50	75	90	90	90	90	90	90	90		
		b	120		150		160		160		160		160		
		c	68		68		68		68		68		68		
		ca	90		90		90		90		90		90		
Mass of front-face type (kg)		0.3 0.45		0.55 0.8		1.0 1.1		1.0 1.1		1.1		1.1			
Installation and connections	Front (F)	Screw terminal (AMP-N)	Page		●		●		●		●		●		
		Solderless terminal (SL)	-		●		●		●		●		●		
		Bar (BAR)	716		-		● (*5)		●		●		●		
		Power supply solderless load bar (SL/BAR)	-		● (*5, 6)		● (*6)		● (*6)		● (*6)		● (*6)		
Cassette-type accessories (*2)	Alarm switch (AL)	725		● (*7)		● (*7)		● (*7)		● (*7)		● (*7)			
	Auxiliary switch (AX)	-		● (*7)		● (*7)		● (*7)		● (*7)		● (*7)			
	Shunt trip (SHT)	-		● (*7)		● (*7)		● (*7)		● (*7)		● (*7)			
	Undervoltage trip (UVT)	-		●		● (*7)		● (*7)		● (*7)		● (*7)			
	With lead-wire terminal block (SLT)	737		●		●		●		●		●			
External accessories (*2)	Mechanical interlock (MI)	752		-		-		-		-		-			
	Handle lock device	(HL)	750		●		●		●		●		●		
		(HL-S)	-		●		●		●		●		●		
	External operating handle	(F)	740		●		●		●		●		●		
		(V)	-		●		●		●		●		●		
	Terminal cover Large terminal cover (TC-L)	744		●		●		●		●		●			
Terminal cover Small terminal cover (TC-S)	745		- (*3)		- (*3)		- (*3)		- (*3)		- (*3)				
IEC 35mm rail mounting adapters		759		Standard accessory		Standard accessory		-		-		-			
CE marking		TÜV approval		TÜV approval		TÜV approval		TÜV approval		TÜV approval		TÜV 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		822		822			

- Notes: *1 The trip action characteristics differ between AC and DC for products that are compatible with both AC and DC.
 *2 These accessories differ from the general and CE/CCC products in specifications. Please consult us for details.
 *3 The standard structure conforms to IP20 (finger protection).
 *4 The rated ambient temperature for NF50-SVFU, NF100-CVFU, NF125-SVU and NF125-HVU is specified at 40°C also by IEC.
 *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 busbar terminal is not provided on the load side.
 *7 These cassette type circuit breakers can be installed by the customer. They can be installed with their side faces in close contact (except NF50-SVFU and UVT).

- Remarks: 1. Products with rated current parenthesized are produced when an order is placed.
 2. The circuit breaker has the rated short-circuit breaking capacity specified in the shaded cells.
 3. The 3-pole circuit breakers can be used on single-phase circuits.



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

Canada CSA Standard
 C22.2 No.5