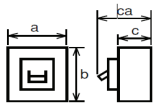
UL 489 Listed Mold Case Circuit Breakers

Frame(A)				50					100								
Model				NF50-SMU			NF50-SVFU		NF100-CVFU		NF100-SRU		NF100-HRU				
Image																	
Rated current In(A) Rated ambient temperture 40℃(IEC 30℃) (*3)				0.5 1 (1.5) 2 3 4 5 (6) 7 (8) 10 13 15 20 (25) 30 (35) (40) 50		(0.5) (1) (1.5) (2) (3) 4 5 (6) (7) (8) 10 13 15 20 25 30 (35) 40 50	(3) 5 10 15 20 30 40 50		60 (70) 75 (80) (90) 100		(1) (2) 3 5 10 15 20 (25) 30 40 50 60 (70) 75 (80) (90) 100		(1) (2) 3 5 10 15 20 (25) 30 40 50 60 (70) 75 (80) (90) 100				
Number of poles				1	2	3	2	3	2	3	2	3	2	3			
Rated short-circuit Breakng Capacities(kA)	UL 489 CSA C22.2 No.5-02	Rated voltage	AC(V)	240			240		240		240		480				
			DC(V)	60	-		-		-		-		-				
		AC	600/Y/347V	-			-		-		-		-				
			480V	-			-		-		-		18(10) (*9)				
			480Y/277V	-			-		-		-		-				
			240V	5	10		14		14		35(25) (*9)		50(25) (*9)				
			120V	10	-		-		-		-		-				
		DC	60V	10	-		-		-		-		-				
	JIS C 8201-2-1 Ann.1 IEC 60947-2 EN60947-2 (Icu/Ics)	Rated insulation voltageUi(V)		440			440		600		500		500				
		AC	690V	-			-		-		-		-				
			500V	-			-		7.5/4		10/5		18/9(10/5) (*7)				
			440V	-			7.5/4		10/5		15/8		25/13(15/8) (*7)				
			415V	-			10/5		10/5		15/8		25/13(15/8) (*7)				
			400V	-	10/7.5		10/5		10/5		15/8		25/13(15/8) (*7)				
			380V	-			10/5		10/5		-		-				
			230V	10/7.5	10/7.5		15/8		15/8		35/18(25/13) (*7)		50/25(25/13) (*7)				
		DC (*2)	250V	-			-		-		-		-				
			125V	10/7.5	-		-		-		-		-				
Rated impluse withstand voltage Uimp(kV)				6			6		8		8		8				
Current(*1)				AC/DC	AC		AC		AC		AC		AC				
Suitability for isolation				compatible			compatible		compatible		compatible		compatible				
Reverse connection				possible			-		possible		possible		possible				
Number of operating cycles	Without current			10,000			10,000		10,000		10,000		10,000				
	With current(440VAC)			6,000			6,000		6,000		6,000		6,000				
Utilization category				A			A		A		A		A				
Pollution degree				3			3		3		3		3				
EMC environment condition(environment A or B)				N/A			N/A		N/A		N/A		N/A				
Overall dimentions(mm)			a	18	36	54	36	54	50	75	50	75	50	75			
			b	124			120		150		120		120				
			c	44			68		68		68		74				
			ca	70			90		90		96		102				
Mass of front-face type kg				0.15	0.3	0.45	0.3	0.45	0.55	0.8	0.5	0.75	0.55	0.8			
Installation and connection	Front(F)	Screw terminal(AMP/N)		●			●		●		●		●				
		Solderless terminal(SL)		-			-		●		●		●				
		Bar(BAR)		-			-		●(*4)		●		●				
		Power supply solderless load bar(SL/BAR)		-			-		●(*4,6)		●(*6)		●(*6)				
cassete type-accesssories	Alarm switch(AL)			●(*8)			●(*9)		●(*9)		●(*9)		●(*9)				
	Auxiliary switch(AX)			●(*8)			●(*9)		●(*9)		●(*9)		●(*9)				
	Shunt trip(SHT)			●(*8)			●(*9)		●(*9)		●(*9)		●(*9)				
	Undervoltage trip(UVT)			-			●		●(*9)		●(*9)		●(*9)				
	With lead-wire terminal block(SLT)			-			●		●		●		●				
Extermnal accessories	Hnadle lock device	HL		●			●		●		●		●				
		HL-S		-			●		●		●		●				
	Large terminal cover(TC-L)			●			●		●		●		●				
	Small terminal cover(TC-S)			-			-		-		-		-				
	IEC 35mm rail mounting adapters			-			-		-		-		-				
CE marking				TUV approval			TUV approval		TUV approval		TUV approval		TUV approval				
CCC recognition				Recognized			Recognized		Recognized		Recognized		Recognized				
Automatic tripping device				Termal-magnetic			Termal-magnetic		Termal-magnetic		Termal-magnetic		Termal-magnetic				
Trip button				-			equipped		equipped		equipped		equipped				

Notes:
*1 The trip action characteristics differ between AC and DC for products that are compatibe with both AC and DC
*2 The standard structure conforms to IP20(finger protection)
*3 Rated ambient temperature for NF50-SVFU, NF100-CVFU, NF100-SRU, NF100-HRU is specified at 40℃ also by IEC
*4 The circuit breaker with busbar teeminal have insullation barriers.
*5 Isolation function is not available.
*6 Circuit breaker 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 breaking capacity of ( ) is for below 15A of rated current.
*8 optional parts.
*9 These cassette type circuit breaker can be installed by the customer. They can be installed with their side faces