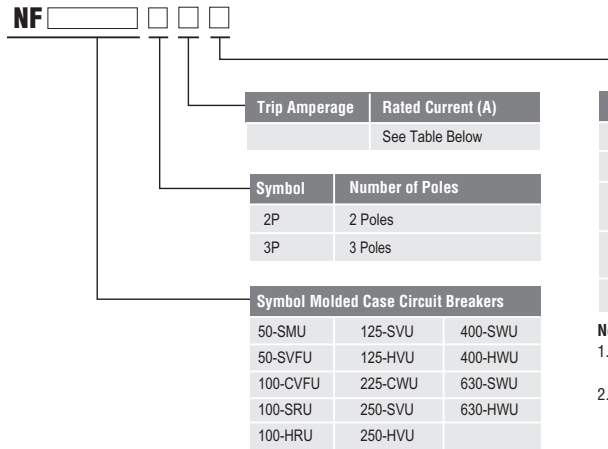


WSS and WS-V Molded Case Circuit Breakers

The WS-V and WSS UL489 range of circuit breakers offers a standard and high performance protection up to 630 amps and suitable for 230V, 480V and 600VAC applications.



Symbol	Internal Accessories (*1)
AL	Alarm switch
AX	Auxiliary switch
SHT	Shunt Tripping Device (Designate rated voltage for coil)
UVT	Undervoltage Tripping Device (Designate rated voltage for coil)
SLT	Vertical lead-wire terminal block

Notes:

- When ordering two, designate as AL2 or AX2. For the microload type, designate AL-B or AX-B.
- For the 30 to 250A from 2-pole or 3-pole TC-L, the specifications will be set according to the rated current.

Molded Case Circuit Breakers (50 – 100AF)

Frame Size (A)		50					100							
Model Number		NF50-SMU			NF50-SVFU		NF100-CVFU		NF100-SRU		NF100-HRU			
Stocked Item		S	S	S	S	S	-	-	-	-	S	S		
Rated Current in Amps at Ambient Temperature 40°C (IEC 30°C)		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 Voltage	AC (V)	240			240		240		240		480			
	DC (V)	60	-	-	-	-	-	-	-	-	-	-		
UL489 (File No. E108284) CSA C22.2 No. 5-02	AC	600Y / 347V		-	-	-	-	-	-	-	-			
		480V		-	-	-	-	-	-	-	18 (10)			
		480Y / 277V		-	-	-	-	-	-	-	-	-		
		240V		5	10	14	14	35	50 (25)					
	120V		10	-	-	-	-	-						
	DC	60V	10	-	-	-	-	-						
Rated Insulation Voltage (Ui) V		440			440		600		500		500			
JIS C 8201-2-1 Ann.1 IEC60947-2 EN60947-2 (Icu/Ics)	AC	690V		-	-	-	-	-	-	-	-			
		500V		-	-	-	-	7.5/4	10/5	15/8	18/9 (10/5)			
		440V		-	-	7.5/4	10/5	15/8	25/13 (15/8)					
		415V		-	-	10/5	10/5	15/8	25/13 (15/8)					
		400V		-	10/7.5	10/5	10/5	15/8	25/13 (15/8)					
		380V		-	-	10/5	10/5	-	-					
	230V		10/7.5	10/7.5	15/8	15/8	35/18 (25/13)	50/25 (25/13)						
	DC	250V	-	-	-	-	-	-						
60V	10/7.5	-	-	-	-	-	-							
Overall Dimensions mm (in)	Width	18	36	54	36	54	50	75	50	75	50	75		
	Height	124			120		150		120		120			
	Depth	44			68		68		68		74			
	Depth Including Knob	70			90		90		90		102			
External Handles	F-Type	-			2P: F-03SVUL2 3P: F-03SVUL		2P: F-05SVUL2 3P: F-05SVUL		2P: F-05SRUL2 3P: F-05SRUL					
	V-Type	-			2P: V-03SVUL2 3P: V-03SVU		2P: V-05SVUL2 3P: V-05SVUL		2P: V-05SRUL2 3P: V-05SRUL					
	C-Type	-			-		3P: C1SVU		-					
Handle Lock	HL	HLF-05SMU			HLF-03SVU		HLF-05SVU		HLF-05SRU					
	HL-S	-			HLS-03SVU		2P: HLS-05SVU2 3P: HLS-05SVU		2P: HLS-05SRU2 3P: HLS-05SRU3					
Terminal Covers (TCL, TCS)		-			2P: TCL-03SVU2 3P: TCL-03SVU3		2P: TCL-05SVU2, TCL-05SVU2L 3P: TCL-05SVU3, TCL-05SVU3L		2P: TCS-05SRU2, TCL-05SRU2 3P: TCS-05SRU3, TCL-05SRU3 TCG-05SRU					

Note: V-Type handles require a separate extension shaft, V-AD3S for 50AF to 250AF MCCB and the V-AD3L for 400AF to 630AF MCCB.

Molded Case Circuit Breakers (125 – 225AF)

Frame Size (A)	125				225		250	
Model Number	NF125-SVU				NF125-HVU		NF225-CWU	
Stocked Item	S	S	S	S	S	S	-	
Rated Current in Amps at Ambient Temperature 40°C (IEC 30°C)	15 20 30 40 50 60 (70) 75 (80) (90) 100		125		15 20 30 40 50 60 (70) 75 (80) (90) 100		125 150 175 200 225	
Number of Poles	2		3		3		3	
Rated Voltage	AC (V)	480		480		600Y/347		
	DC (V)	-		-		-		
UL489 (File No. E108284) CSA C22.2 No. 5-02	AC	600Y / 347V	-		18		-	
		480V	30		50		-	
		480Y / 277V	-		-		-	
		240V	50		100		35	
		120V	-		-		-	
	DC	60V	-		-		-	
	Rated Insulation Voltage (Ui) V	690		690		690		600
JIS C 8201-2-1 Ann.1 IEC60947-2 EN60947-2 (Icu/Ics)	AC	690V	8/4		10/5		-	
		500V	18/9		25/13		10/5	
		440V	30/15		50/25		15/8	
		415V	30/15		30/15		18/9	
		400V	30/15		30/15		18/9	
		380V	30/15		30/15		18/9	
		230V	50/25		50/25		35/18	
	DC	250V	-		-		10/5	
60V	-		-		-			
Overall Dimensions mm (in)	Width	90		90		105		
	Height	160		160		165		
	Depth	68		68		68		
	Depth Including Knob	90		90		92		
External Handles	F-Type	F-1SVUL				F-2SUL		
	V-Type	V-1SVUL				V-2SUL		
	S-Type	-				S2SWU		
	C-Type	C1SVU				C2SWU		
Handle Lock	HL	HLF-05SVU				HLF-2SWU		
	HL-S	HLS-05SVU				HLS-2SWU		
Mechanical Interlock	-				MI-05SWU3			
Terminal Cover	TCL-1SVU3				TCL-2SWU3, TCL-2SWU3L			

Molded Case Circuit Breakers (250AF – 630AF)

Frame Size (A)	250				400		630		
Model Number	NF250-SVU		NF250-HVU		NF400-SWU	NF400-HWU	NF630-SWU	NF630-HWU	
Stocked Item	S	S	S	S	S	S	S	S	
Rated Current in Amps at Ambient Temperature 40°C (IEC 30°C)	125 150 175 200 225		250		125 150 175 200 225		250		
Rated Current in Amps at Ambient Temperature 40°C (IEC 30°C)	125 150 175 200 225		250		250 300 350 400		250 300 350 400		
Number of Poles	3		3		3		3		
Rated Voltage	AC (V)	480		600Y/347		600Y/347		600Y/347	
	DC (V)	-		-		-		-	
UL489 (File No. E108284) CSA C22.2 No. 5-02	AC	600Y / 347V	-		18		20		
		480V	35		50		35		
		480Y / 277V	-		-		25		
		240V	65		100		65		
		120V	-		-		100		
	DC	60V	-		-		-		
	Rated Insulation Voltage (Ui) V	690		690		690		690	
JIS C 8201-2-1 Ann.1 IEC60947-2 EN60947-2 (Icu/Ics)	AC	690V	8/4		10/5		10/10 (5/5)		
		500V	25/13		36/18		15/10		
		440V	36/18		50/25		30/30		
		415V	36/18		50/25		42/42		
		400V	36/18		50/25		65/65		
		380V	36/18		50/25		42/42		
		230V	65/33		100/50		65/65		
	DC	250V	-		-		70/70		
60V	-		-		70/70				
Overall Dimensions (mm)	Width	105		105		140		210	
	Height	185		185		257		275	
	Depth	68		68		103		103	
	Depth Including Knob	92		92		155		155	
External Handles	F-Type	F-2SVUL				F-4SUL		F-6SUL	
	V-Type	V-2SVUL				V-4SUL		V-6SUL	
	C-Type	C2SVU				C4SWU		-	
Handle Lock	HL	HLF-05SVU				HL-4SWU		HL-4SWU	
	HL-S	HLS-2SVU				HLS-2SVU		-	
Terminal Cover	TCL-2SVU3, TCL-2SVU3L				TCL-4SWU		TCL-6SWU		

Note: V-Type handles require a separate extension shaft, V-AD3S for 50AF to 250AF MCCB and the V-AD3L for 400AF to 630AF MCCB.