

SELECTION GUIDE

UTS400



CATALOG NUMBERING [PRODUCT SELECTION]

UTS400				NT	ATU	400A	3P	LL	UL
SERIES & FRAME: Susol 400AF									
PERFORMANCE									
Rating	80%	100%	kA						
240Vac	N	NT	65						
	H	HT	100						
	L	LT	150						
480Vac	N	NT	35						
	H	HT	65						
	L	LT	100						
600Vac	N	NT	18						
	H	HT	35						
	L	LT	50						
				TRIP UNIT		AMPERES		POLES	
				FTU: Fixed Thermal, Fixed Magnet		250 300		2: Two	
				FMU: Adj. Thermal, Fixed Magnet		350 400		3: Three	
				ATU: Adj Thermal & Magnet					
				ETS: Electronic trip unit standard					
				ETM: Electronic trip unit multi function					
				MCP: Motor Circuit Protector					
				MCS: Molded Case Switch					
								TERMINALS	
								LL: Lugs Line/Load Side	
								L : Lugs Line Side	
								LO: Lugs Load Side	
								- : Bolt-on	
								SUFFIX	
								UL : UL	

UTS400 FRAME

UTS400 breaker is HACR rated

UL489 RATINGS

BREAKER TYPE	NUMBER OF POLES	INTERRUPTING CAPACITY (kA rms) AC 50/60Hz			INTERRUPTING CAPACITY (kA) DC	
		240V ac	480V ac	600V ac	250V DC-2P	600V DC-3P
UTS400N	2, 3	65	35	18	35	35
UTS400H	2, 3	100	65	35	50	50
UTS400L	2, 3	150	100	50	65	65

IEC60947-2 RATINGS

BREAKER TYPE	NUMBER OF POLES	INTERRUPTING CAPACITY(kA rms) AC 50/60Hz, Icu		
		220/240V	380/415V	480/500V
UTS400N	2, 3	65	35	18
UTS400H	2, 3	100	65	35
UTS400L	2, 3	150	100	50
Service breaking capacity, Ics (%Icu)		100%		
Insulation Voltage, Ui		750 VAC		
Impulse Withstand Voltage, Uimp		8 KVAC		
Utilization Category		A		

DIMENSIONS

POLE	DIMENSIONS inch (mm)		
	W	H	D
2-Pole	5.51 (140)	11.42 (290)	4.33 (110)
3-Pole			

TRIP UNIT TYPES

	THERMAL	MAGNETIC	REMARKS
FTU	Fixed	Fixed	
FMU	Adjustable, 0.8~1 x In	Fixed	
ATU	Adjustable, 0.8~1 x In	Adjustable, 5~10 x In	
ETS	Adjustable, 80~600 A	Adjustable, 1.5~11 x In	Electronic
ETM	Adjustable, 80~600 A	Adjustable, 1.5~11 x In	Electronic
MCS	N.A.	Fixed, 10 x In	Magnetic only
MCP	N.A.	Adjustable, 6~12 x In	Magnetic only

CIRCUIT BREAKER

WITH FTU TRIP UNIT (FIXED THERMAL, FIXED MAGNETIC)				
Ampere Rating, In	65kA at 240V, 35kA at 480V, 18kA at 600V		100kA at 240V, 65kA at 480V, 35kA at 600V	
	2-Pole	3-Pole	2-Pole	3-Pole
250A	UTS400-N-FTU-250-2	UTS400-N-FTU-250-3	UTS400-H-FTU-250-2	UTS400-H-FTU-250-3
300A	UTS400-N-FTU-300-2	UTS400-N-FTU-300-3	UTS400-H-FTU-300-2	UTS400-H-FTU-300-3
350A	UTS400-N-FTU-350-2	UTS400-N-FTU-350-3	UTS400-H-FTU-350-2	UTS400-H-FTU-350-3
400A	UTS400-N-FTU-400-2	UTS400-N-FTU-400-3	UTS400-H-FTU-400-2	UTS400-H-FTU-400-3

Ampere Rating, In	150kA at 240V, 100kA at 480V, 50kA at 600V	
	2-Pole	3-Pole
250A	UTS400-L-FTU-250-2	UTS400-L-FTU-250-3
300A	UTS400-L-FTU-300-2	UTS400-L-FTU-300-3
350A	UTS400-L-FTU-350-2	UTS400-L-FTU-350-3
400A	UTS400-L-FTU-400-2	UTS400-L-FTU-400-3

CIRCUIT BREAKER

WITH FMU TRIP UNIT (ADJUSTABLE THERMAL, FIXED MAGNETIC)					
Ampere Rating, In	65kA at 240V, 35kA at 480V, 18kA at 600V		100kA at 240V, 65kA at 480V, 35kA at 600V		
	2-Pole	3-Pole	2-Pole	3-Pole	
300A	UTS400-N-FMU-300-2	UTS400-N-FMU-300-3	UTS400-H-FMU-300-2	UTS400-H-FMU-300-3	
400A	UTS400-N-FMU-400-2	UTS400-N-FMU-400-3	UTS400-H-FMU-400-2	UTS400-H-FMU-400-3	
Ampere Rating, In	150kA at 240V, 100kA at 480V, 50kA at 600V			Thermal range	
	2-Pole	3-Pole			
300A	UTS400-L-FMU-300-2	UTS400-L-FMU-300-3		240~300A	
400A	UTS400-L-FMU-400-2	UTS400-L-FMU-400-3		320~400A	
WITH ATU TRIP UNIT (ADJUSTABLE THERMAL, ADJUSTABLE MAGNETIC)					
Ampere Rating, In	65kA at 240V, 35kA at 480V, 18kA at 600V		100kA at 240V, 65kA at 480V, 35kA at 600V		
	2-Pole	3-Pole	2-Pole	3-Pole	
300A	UTS400-N-ATU-300-2	UTS400-N-ATU-300-3	UTS400-H-ATU-300-2	UTS400-H-ATU-300-3	
400A	UTS400-N-ATU-400-2	UTS400-N-ATU-400-3	UTS400-H-ATU-400-2	UTS400-H-ATU-400-3	
Ampere Rating, In	150kA at 240V, 100kA at 480V, 50kA at 600V		Adjustable range		
	2-Pole	3-Pole	Thermal	Magnetic	
300A	UTS400-L-ATU-300-2	UTS400-L-ATU-300-3	240-300A	1500-3000A	
400A	UTS400-L-ATU-400-2	UTS400-L-ATU-400-3	320-400A	2000-4000A	
WITH ETS33 LI TRIP UNIT (ELECTRONIC)					
Ampere Rating, In	65kA at 240V, 35kA at 480V, 18kA at 600V		100kA at 240V, 65kA at 480V, 35kA at 600V		
	3-Pole		3-Pole		
250A	UTS400-N-ETS33-250-3		UTS400-H-ETS33-250-3		
400A	UTS400-N-ETS33-450-3		UTS400-H-ETS33-450-3		
Ampere Rating, In	150kA at 240V, 100kA at 480V, 50kA at 600V		Setting value		
	3-Pole		Ir (A)	Ii (A)	Tr (s)
250A	UTS400-L-ETS33-250-3		80~250A	(1.5, 2, 3, 4, 5, 6, 8, 10, 11) x In	0.5, 1, 2, 4, 8, 16, Accuracy ±20%
400A	UTS400-L-ETS33-450-3		150~400A		
WITH ETS33 LSI TRIP UNIT (ELECTRONIC)					
Ampere Rating, In	65kA at 240V, 35kA at 480V, 18kA at 600V		100kA at 240V, 65kA at 480V, 35kA at 600V		
	3-Pole		3-Pole		
250A	UTS400-N-ETS33-250-3		UTS400-H-ETS33-250-3		
400A	UTS400-N-ETS33-450-3		UTS400-H-ETS33-450-3		
Ampere Rating, In	150kA at 240V, 100kA at 480V, 50kA at 600V		Setting value		
	3-Pole		Ir (A)	Ii (A)	I _{sd} (A)
250A	UTS400-L-ETS33-250-3		80~250A	(1.5, 2, 3, 4, 5, 6, 8, 10, 11) x In	(1.5, 2, 3, 4, 5, 6, 7, 8, 10) x Ir Accuracy±15%
400A	UTS400-L-ETS33-450-3		150~400A		

* Time delay at 6 x I_r: fixe 16s, accuracy ±20%

* Time delay: non-tripping time 20ms / maximum break time 80ms

* Tripping time: ≤50ms

UTS400 FRAME

CIRCUIT BREAKER

WITH ETM33 TRIP UNIT (ELECTRONIC)							
Ampere Rating, In	65kA at 240V, 35kA at 480V, 18kA at 600V		100kA at 240V, 65kA at 480V, 35kA at 600V		150kA at 240V, 100kA at 480V, 50kA at 600V		
	3-Pole		3-Pole		3-Pole		
250A	UTS400-N-ETM33-250-3		UTS400-H-ETM33-250-3		UTS400-L-ETM33-250-3		
400A	UTS400-N-ETM33-450-3		UTS400-H-ETM33-450-3		UTS400-L-ETM33-450-3		

Ampere Rating, In	Setting value						
	Overload protection (long time)		Short-circuit protection (short time)		Instantaneous	Option	
	I _r (A)	T _r (s)	I _{sd} (A)	t _{sd} (ms)	I _i (A)	I _g (A)	t _g (A)
250A	80~250A	0.5, 1, 2, 4, 8, 16, Accuracy ±20%	(1.5, 2, 3, 4, 5, 6, 7, 8, 10) x I _r Accuracy ±15%	50, 100, 200, 300, 400	(1.5, 2, 3, 4, 5, 6, 8, 10, 11) x I _n	0.2~1 x I _n	100, 200, 300, 400
400A	150~400A						

MOLDED CASE SWITCH

WITH MCS TRIP UNIT (FIXED MAGNETIC ONLY)				
Ampere Rating, In	65kA at 240V, 35kA at 480V, 18kA at 600V		100kA at 240V, 65kA at 480V, 35kA at 600V	
	2-Pole	3-Pole	2-Pole	3-Pole
400A	UTS400-N-MCS-400-2	UTS400-N-MCS-400-3	UTS400-H-MCS-400-2	UTS400-H-MCS-400-3

Ampere Rating, In	150kA at 240V, 100kA at 480V, 50kA at 600V	
	2-Pole	3-Pole
400A	UTS400-L-MCS-400-2	UTS400-L-MCS-400-3

MOTOR CIRCUIT PROTECTOR

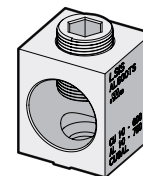
WITH MCP TRIP UNIT (ADJUSTABLE MAGNETIC ONLY)				
Ampere Rating, In	3-Pole	3-Pole	3-Pole	Magnetic Range
320A	UTS400-N-MCP-320-3	UTS400-H-MCP-320-3	UTS400-L-MCP-320-3	1920-3840A

ACCESSORIES FOR UTS400

MECHANICAL LUGS

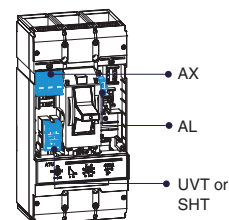
MAXIMUM BREAKER AMPERES	TERMINAL BODY MATERIAL	WIRE TYPE	ORDERING TYPE
400A	Aluminum	Cu/Al	AL400TS

AL400TS 250~400A Lug



INNER ACCESSORIES

DESCRIPTION	CONTROL VOLTAGE	ORDERING TYPE
Auxiliary Switch, AX		
Alarm Switch, AL		
Fault alarm switch, FAL		
Shunt Trip, SHT	DC 12V	
	AC/DC 24V	
	AC/DC 48V	
	AC/DC 110~130V	
	AC 220~240V/DC 250V	
Undervoltage Trip, UVT	AC 380~500V	
	AC/DC 24V	
	AC/DC 48V	
	AC/DC 110~130V	
	AC 220~240V/DC 250V	
	AC 380~440V	
	AC 440~480V	



Type	Left(R)	Right(T)
AX	3	-
AL	-	1
FAL	-	1**
SHT	1*	-
UVT	1*	-

* Applicable in indicated pole position-not synchronous

** FAL can be applied to only MCCB with electronic trip release.

PADLOCKING DEVICE

DESCRIPTION	ORDERING TYPE
Lock in "OFF" position	PL3



<Pad Lock>

PLATE HANDLE LOCKING DEVICE

DESCRIPTION	ORDERING TYPE
Lock in "OFF" or "ON" position	PHL3



<Plate Handle Lock>

MECHANICAL INTERLOCKING DEVICE

DESCRIPTION	ORDERING TYPE
For 3-Pole breaker	MIT33

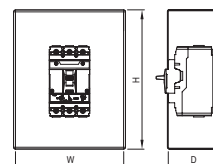


<Mechanical Interlock>

ACCESSORIES FOR UTS400

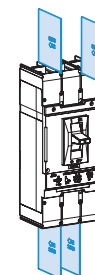
ENCLOSURE

ENCLOSURE DIMENSION (W X H X D) inch (mm)	ORDERING TYPE
13.78 (350) x 40.16 (1020) x 5.98 (152) : 80% rated	-
13.78 (350) x 40.16 (1020) x 7.17 (182) : 100% rated	-



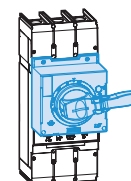
INSULATION BARRIERS

DESCRIPTION	QTY PER KIT	ORDERING TYPE
For 3-Pole breaker	4	B33

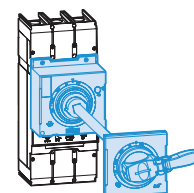


ROTARY OPERATING HANDLES

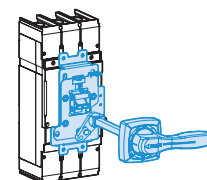
DESCRIPTION	TYPE	ORDERING TYPE
Directly Mounted	NEMA Type 1	DH-3
Directly Mounted (with Key lock)	NEMA Type 1	DHK-3
Extended (Door-Mounted)	NEMA Type 1	REH-3
	NEMA Type 1, 12	EHU-3
NEMA Door-Mounted	NEMA Type 3, 3R, 4	EHV-3
	NEMA Type 3, 4, 4X	EHX-3



<DH-3>



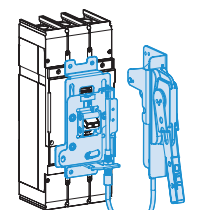
<REH-3>



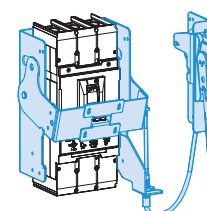
<EHU-3>

FLANGE HANDLES WITH SLIDING OPERATING MECHANISM

DESCRIPTION	TYPE	ORDERING TYPE
Handle (with sliding mechanism and without cable)	NEMA Type 1, 12, 3, 3R, 4	FHU-3
	NEMA Type 4, 4X	FHX-3
	36 inch	FH3-36
Cable	48 inch	FH3-48
	60 inch	FH3-60
	72 inch	FH3-72
	128 inch	FH3-128



<FHU-3>



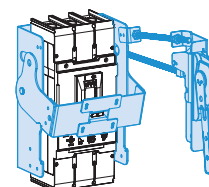
<COM-3>

FLANGE HANDLES WITH CABLE OPERATING MECHANISM

DESCRIPTION	TYPE	ORDERING TYPE
Cable operating mechanism (without cable)		COM-3
Long type handle (with operating mechanism)	NEMA Type 1, 12, 3, 3R, 4	[COM-3]+[FHU-L]
	NEMA Type 4, 4X	[COM-3]+[FHX-L]
Cable	36 inch	FH3-36
	48 inch	FH3-48
	60 inch	FH3-60
	72 inch	FH3-72
	128 inch	FH3-128

FLANGE HANDLES WITH VARIABLE-DEPTH OPERATING MECHANISM

DESCRIPTION	TYPE	ORDERING TYPE
Variable depth operating mechanism with threaded-rod and handle		VDM-3
Long type handle with operating mechanism	NEMA Type 1, 12, 3, 3R, 4	[VDM-3]+[FHU-L]
	NEMA Type 4, 4X	[VDM-3]+[FHX-L]



<VDM-3>

TYPE	DIRECTLY MOUNTED	DOOR MOUNTED	FLANGE HANDLE WITH CABLE OPERATION MECHANISM	FLANGE HANDLE WITH VARIABLE DEPTH MECHANISM
NEMA TYPE 1			-	-
NEMA Type 1, 12, 3, 3R, 4, 4X	-			

MOTOR OPERATOR

DESCRIPTION	CONTROL VOLTAGE	ORDERING TYPE
Standard type (Not lockable)	DC 24V	MOP3U
	AC 110V/DC 110V	MOP3U
	AC 230V/DC 220V	MOP3U
Lockable type	DC 24V	MOP3U-L
	AC 110V/DC 110V	MOP3U-L
	AC 230V/DC 220V	MOP3U-L



MOP3U-L