

SELECTION GUIDE

UTS250



CATALOG NUMBERING [PRODUCT SELECTION]

UTS250				NT	ATU	250A	3P	LL	UL
SERIES & FRAME: Susol 250AF									
PERFORMANCE									
Rating	80%	100%	kA						
240Vac	N	NT	65	TRIP UNIT		AMPERES		TERMINALS	
	H	HT	100						
	L	LT	150						
480Vac	N	NT	35	FTU: Fixed Thermal, Fixed Magnet		POLES		LL: Lugs Line/Load Side	
	H	HT	65	FMU: Adj. Thermal, Fixed Magnet				L : Lugs Line Side	
	L	LT	100	ATU: Adj Thermal & Magnet				LO: Lugs Load Side	
600Vac	N	NT	18	ETS: Electronic trip unit standard		150	160	- : Bolt-on	
	H	HT	35	MCP: Motor Circuit Protector		175	200		
	L	LT	50	MCS: Molded Case Switch		225	250		

UTS250 FRAME

UTS250 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
UTS250N	2, 3	65	35	18	35	35
UTS250H	2, 3	100	65	35	50	50
UTS250L	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
UTS250N	2, 3	65	35	18
UTS250H	2, 3	100	65	35
UTS250L	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

POLES	DIMENSIONS inch (mm)		
	W	H	D
2-Pole			
3-Pole	4.13 (105)	7.48 (190)	3.44 (87.5)

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, 60~250A	Adjustable, 1.5~11 x In / Fixed, 11 x In(LIG only)	Electronic
MCS	N.A.	Fixed, 10 x In	Magnetic only
MCP	N.A.	Adjustable, 6~12 x In	Magnetic only

UTS250 FRAME

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
150A	UTS250-N-FTU-150-2	UTS250-N-FTU-150-3	UTS250-H-FTU-150-2	UTS250-H-FTU-150-3
175A	UTS250-N-FTU-175-2	UTS250-N-FTU-175-3	UTS250-H-FTU-175-2	UTS250-H-FTU-175-3
200A	UTS250-N-FTU-200-2	UTS250-N-FTU-200-3	UTS250-H-FTU-200-2	UTS250-H-FTU-200-3
225A	UTS250-N-FTU-225-2	UTS250-N-FTU-225-3	UTS250-H-FTU-225-2	UTS250-H-FTU-225-3
250A	UTS250-N-FTU-250-2	UTS250-N-FTU-250-3	UTS250-H-FTU-250-2	UTS250-H-FTU-250-3

Ampere Rating, In	150kA at 240V, 100kA at 480V, 50kA at 600V	
	2-Pole	3-Pole
150A	UTS250-L-FTU-150-2	UTS250-L-FTU-150-3
175A	UTS250-L-FTU-175-2	UTS250-L-FTU-175-3
200A	UTS250-L-FTU-200-2	UTS250-L-FTU-200-3
225A	UTS250-L-FTU-225-2	UTS250-L-FTU-225-3
250A	UTS250-L-FTU-250-2	UTS250-L-FTU-250-3

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
160A	UTS250-N-FMU-160-2	UTS250-N-FMU-160-3	UTS250-H-FMU-160-2	UTS250-H-FMU-160-3
200A	UTS250-N-FMU-200-2	UTS250-N-FMU-200-3	UTS250-H-FMU-200-2	UTS250-H-FMU-200-3
250A	UTS250-N-FMU-250-2	UTS250-N-FMU-250-3	UTS250-H-FMU-250-2	UTS250-H-FMU-250-3

Ampere Rating, In	150kA at 240V, 100kA at 480V, 50kA at 600V		Thermal range
	2-Pole	3-Pole	
160A	UTS250-L-FMU-160-2	UTS250-L-FMU-160-3	128-160A
200A	UTS250-L-FMU-200-2	UTS250-L-FMU-200-3	160-200A
250A	UTS250-L-FMU-250-2	UTS250-L-FMU-250-3	200-250A

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
160A	UTS250-N-ATU-160-2	UTS250-N-ATU-160-3	UTS250-H-ATU-160-2	UTS250-H-ATU-160-3
200A	UTS250-N-ATU-200-2	UTS250-N-ATU-200-3	UTS250-H-ATU-200-2	UTS250-H-ATU-200-3
250A	UTS250-N-ATU-250-2	UTS250-N-ATU-250-3	UTS250-H-ATU-250-2	UTS250-H-ATU-250-3

Ampere Rating, In	150kA at 240V, 100kA at 480V, 50kA at 600V		Adjustable range	
	2-Pole	3-Pole	Thermal	Magnetic
160A	UTS250-L-ATU-160-2	UTS250-L-ATU-160-3	128-160A	800-1600A
200A	UTS250-L-ATU-200-2	UTS250-L-ATU-200-3	160-200A	1000-2000A
250A	UTS250-L-ATU-250-2	UTS250-L-ATU-250-3	200-250A	1250-2500A

CIRCUIT BREAKER

WITH ETS23 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			
150A	UTS250-N-ETS23-150-3		UTS250-H-ETS23-150-3			
250A	UTS250-N-ETS23-250-3		UTS250-H-ETS23-250-3			
Ampere Rating, In	150kA at 240V, 100kA at 480V, 50kA at 600V		Setting value			
	3-Pole		Ir (A)	Ii (A)	Tr (s)	
150A	UTS250-L-ETS23-150-3		60~150A	(1.5, 2, 3, 4, 5, 6, 8, 10, 11) x In	0.5, 1, 2, 4, 8, 16, Accuracy ±20%	
250A	UTS250-L-ETS23-250-3		80~250A			
WITH ETS23 LSI TRIP UNIT FOR UTS150 (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			
150A	UTS250-N-ETS23-150-3		UTS250-H-ETS23-150-3			
250A	UTS250-N-ETS23-250-3		UTS250-H-ETS23-250-3			
Ampere Rating, In	150kA at 240V, 100kA at 480V, 50kA at 600V		Setting value			
	3-Pole		Ir (A)	Ii (A)	I _{sd} (A)	
150A	UTS250-L-ETS23-150-3		60~150A	(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%	
250A	UTS250-L-ETS23-250-3		80~250A			
WITH ETS23 LIG 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			
150A	UTS250-N-ETS23-150-3		UTS250-H-ETS23-150-3			
250A	UTS250-N-ETS23-250-3		UTS250-H-ETS23-250-3			
Ampere Rating, In	150kA at 240V, 100kA at 480V, 50kA at 600V		Setting value			
	3-Pole		Ir (A)	Ii (A)	Ig (A)	tg (ms)
150A	UTS250-L-ETS23-150-3		60~150A	11 x In (Fixed)	0.2~1 x In	100, 200, 300, 400
250A	UTS250-L-ETS23-250-3		80~250A			
* Time delay at 6 x Ir: fixde 16s, accuracy ±20%			* Time delay: non-tripping time 70ms / maximum break time 140ms			
			* Tripping time: ≤60ms			

* Time delay at 6 x Ir: fixe 16s, accuracy $\pm 20\%$

* Time delay: non-tripping time 70ms / maximum break time 140ms

* Tripping time: ≤ 60 ms

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
175A	UTS250-N-MCS-175-2	UTS250-N-MCS-175-3	UTS250-H-MCS-175-2	UTS250-H-MCS-175-3
250A	UTS250-N-MCS-250-2	UTS250-N-MCS-250-3	UTS250-H-MCS-250-2	UTS250-H-MCS-250-3
Ampere Rating, In	150kA at 240V, 100kA at 480V, 50kA at 600V			
	2-Pole	3-Pole		
175A	UTS250-L-MCS-175-2	UTS250-L-MCS-175-3		
250A	UTS250-L-MCS-250-2	UTS250-L-MCS-250-3		

MOTOR CIRCUIT PROTECTOR

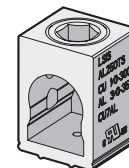
WITH MCP TRIP UNIT (ADJUSTABLE MAGNETIC ONLY)				
Ampere Rating, In	3-Pole	3-Pole	3-Pole	Magnetic range
220A	UTS250-N-MCP-220-3	UTS250-H-MCP-220-3	UTS250-L-MCP-220-3	1320-2640A

ACCESSORIES FOR UTS250

MECHANICAL LUGS

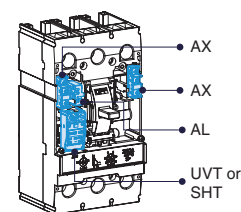
MAXIMUM BREAKER AMPERES	TERMINAL BODY MATERIAL	WIRE TYPE	ORDERING TYPE
250A	Aluminum	Cu/Al	AL250TS

AL250TS 150~250A 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	1	1
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	PL2



<Pad Lock>

PLATE HANDLE LOCKING DEVICE

DESCRIPTION	ORDERING TYPE
Lock in "OFF" or "ON" position	PHL2



<Plate Handle Lock>

MECHANICAL INTERLOCKING DEVICE

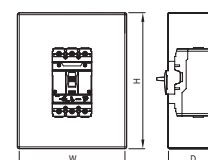
DESCRIPTION	ORDERING TYPE
For 3-Pole breaker	MIT23



<Mechanical Interlock>

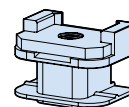
ENCLOSURE

ENCLOSURE DIMENSION (W X H X D) Inch (mm)	ORDERING TYPE
12.13 (308) x 28.5 (724) x 5.35 (136)	-



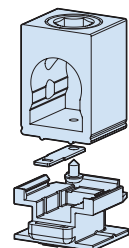
TERMINAL PLATES FOR BUSBAR CONNECTION

DESCRIPTION	QTY PER KIT	ORDERING TYPE
For 3-Pole breaker	3	TP2b3



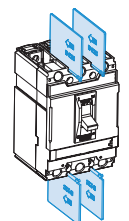
CONTROL WIRE TERMINALS

DESCRIPTION	QTY PER KIT	ORDERING TYPE
For Mechanical Lugs and Terminal Plate	2	CWT



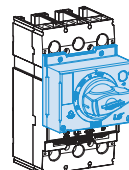
INSULATION BARRIERS

DESCRIPTION	QTY PER KIT	ORDERING TYPE
For 3-Pole breaker	4	B23

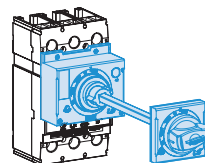


ROTARY OPERATING HANDLES

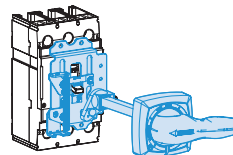
DESCRIPTION	TYPE	ORDERING TYPE
Directly Mounted	NEMA Type 1	DH-2
Directly Mounted (with Key lock)	NEMA Type 1	DHK-2
Extended (Door-Mounted)	NEMA Type 1	REH-2
	NEMA Type 1, 12	EHU-2
NEMA Door-Mounted	NEMA Type 3, 3R, 4	EHV-2
	NEMA Type 3, 4, 4X	EHX-2



<DH-2>



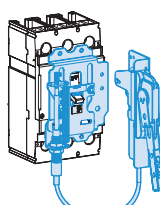
<REH-2>



<EHU-2>

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-2
	NEMA Type 4, 4X	FHX-2
Cable	36 inch	FH2-36
	48 inch	FH2-48
	60 inch	FH2-60
	72 inch	FH2-72

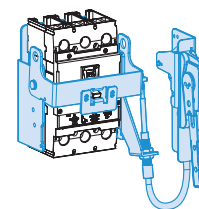


<FHU-2>

ACCESSORIES FOR UTS250

FLANGE HANDLES WITH CABLE OPERATING MECHANISM

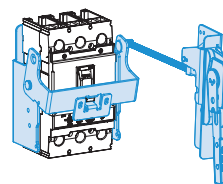
DESCRIPTION	TYPE	ORDERING TYPE
Cable operating mechanism (without cable)		COM-2
Standard type handle (with operating mechanism)	NEMA Type 1, 12, 3, 3R, 4	[COM-2]+[FHU-S]
	NEMA Type 4, 4X	[COM-2]+[FHX-S]
Cable	36 inch	FH2-36
	48 inch	FH2-48
	60 inch	FH2-60
	72 inch	FH2-72



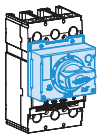
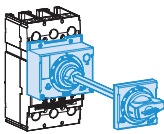
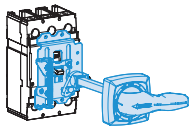
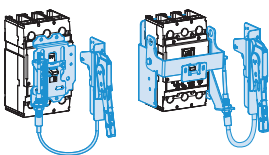
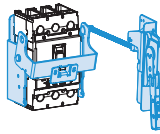
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FLANGE HANDLES WITH VARIABLE-DEPTH OPERATING MECHANISM

DESCRIPTION	TYPE	ORDERING TYPE
Variable depth operating mechanism with threaded-rod and handle		VDM-2
Standard type handle with operating mechanism	NEMA Type 1, 12, 3, 3R, 4	[VDM-2]+[FHU-S]
	NEMA Type 4, 4X	[VDM-2]+[FHX-S]



<VDM-2>

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	MOP2U
	AC 110V/DC 110V	MOP2U
	AC 230V/DC 220V	MOP2U
Lockable type	DC 24V	MOP2U-L
	AC 110V/DC 110V	MOP2U-L
	AC 230V/DC 220V	MOP2U-L



MOP2U-L