

SELECTION GUIDE

UTS150



CATALOG NUMBERING [PRODUCT SELECTION]

UTS150				NT	ATU	150A	3P	LL	UL
SERIES & FRAME: Susol 150AF									
PERFORMANCE						AMPERES			SUFFIX
Rating	80%	100%	kA			MCCB	MCP		UL : UL
240Vac	N	NT	65			40	1.6		
	H	HT	100			50	3.2		
	L	LT	150			60	6.3		
	N	NT	35	TRIP UNIT		70	12		
480Vac	H	HT	65	FTU: Fixed Thermal, Fixed Magnet		80	20		
	L	LT	100	FMU: Adj. Thermal, Fixed Magnet		90	32	TERMINALS	
	N	NT	18	ATU: Adj Thermal & Magnet		100	50	LL: Lugs Line/Load Side	
	H	HT	35	ETS: Electronic trip unit standard		125	60	L : Lugs Line Side	
600Vac	L	LT	50	MCP: Motor Circuit Protector		150	100	LO: Lugs Load Side	
				MCS: Molded Case Switch		150		- : Bolt-on	
								POLES	
								2: Two	
								3: Three	

UTS150 FRAME

- UTS150 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
UTS150N	2, 3	65	35	18	35	35
UTS150H	2, 3	100	65	35	50	50
UTS150L	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
UTS150N	2, 3	65	35	18
UTS150H	2, 3	100	65	35
UTS150L	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	4.13 (105)	6.50 (165)	3.44 (87.5)
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, 15~150A	Adjustable, 1.5~11 x In / Fixed, 11 x In(LIG only)	Electronic
MCS	N.A.	Fixed, 10xIn	Magnetic only
MCP	N.A.	Adjustable, 6~12 x In	Magnetic only

* MCP 60A: 6.7 ~ 13.3 x In

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		150kA at 240V, 100kA at 480V, 50kA at 600V	
	2-Pole	3-Pole	2-Pole	3-Pole	2-Pole	3-Pole
40A	UTS150-N-FTU-40-2	UTS150-N-FTU-40-3	UTS150-H-FTU-40-2	UTS150-H-FTU-40-3	UTS150-L-FTU-40-2	UTS150-L-FTU-40-3
50A	UTS150-N-FTU-50-2	UTS150-N-FTU-50-3	UTS150-H-FTU-50-2	UTS150-H-FTU-50-3	UTS150-L-FTU-50-2	UTS150-L-FTU-50-3
60A	UTS150-N-FTU-60-2	UTS150-N-FTU-60-3	UTS150-H-FTU-60-2	UTS150-H-FTU-60-3	UTS150-L-FTU-60-2	UTS150-L-FTU-60-3
70A	UTS150-N-FTU-70-2	UTS150-N-FTU-70-3	UTS150-H-FTU-70-2	UTS150-H-FTU-70-3	UTS150-L-FTU-70-2	UTS150-L-FTU-70-3
80A	UTS150-N-FTU-80-2	UTS150-N-FTU-80-3	UTS150-H-FTU-80-2	UTS150-H-FTU-80-3	UTS150-L-FTU-80-2	UTS150-L-FTU-80-3
90A	UTS150-N-FTU-90-2	UTS150-N-FTU-90-3	UTS150-H-FTU-90-2	UTS150-H-FTU-90-3	UTS150-L-FTU-90-2	UTS150-L-FTU-90-3
100A	UTS150-N-FTU-100-2	UTS150-N-FTU-100-3	UTS150-H-FTU-100-2	UTS150-H-FTU-100-3	UTS150-L-FTU-100-2	UTS150-L-FTU-100-3
125A	UTS150-N-FTU-125-2	UTS150-N-FTU-125-3	UTS150-H-FTU-125-2	UTS150-H-FTU-125-3	UTS150-L-FTU-125-2	UTS150-L-FTU-125-3
150A	UTS150-N-FTU-150-2	UTS150-N-FTU-150-3	UTS150-H-FTU-150-2	UTS150-H-FTU-150-3	UTS150-L-FTU-150-2	UTS150-L-FTU-150-3

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	
40A	UTS150-N-FMU-40-2	UTS150-N-FMU-40-3	UTS150-H-FMU-40-2	UTS150-H-FMU-40-3	
60A	UTS150-N-FMU-60-2	UTS150-N-FMU-60-3	UTS150-H-FMU-60-2	UTS150-H-FMU-60-3	
80A	UTS150-N-FMU-80-2	UTS150-N-FMU-80-3	UTS150-H-FMU-80-2	UTS150-H-FMU-80-3	
100A	UTS150-N-FMU-100-2	UTS150-N-FMU-100-3	UTS150-H-FMU-100-2	UTS150-H-FMU-100-3	
125A	UTS150-N-FMU-125-2	UTS150-N-FMU-125-3	UTS150-H-FMU-125-2	UTS150-H-FMU-125-3	
150A	UTS150-N-FMU-150-2	UTS150-N-FMU-150-3	UTS150-H-FMU-150-2	UTS150-H-FMU-150-3	
Ampere Rating, In	150kA at 240V, 100kA at 480V, 50kA at 600V			Thermal range	
	2-Pole	3-Pole			
40A	UTS150-L-FMU-40-2		UTS150-L-FMU-40-3	32-40A	
60A	UTS150-L-FMU-60-2		UTS150-L-FMU-60-3	48-60A	
80A	UTS150-L-FMU-80-2		UTS150-L-FMU-80-3	64-80A	
100A	UTS150-L-FMU-100-2		UTS150-L-FMU-100-3	80-100A	
125A	UTS150-L-FMU-125-2		UTS150-L-FMU-125-3	100~125A	
150A	UTS150-L-FMU-150-2		UTS150-L-FMU-150-3	120-150A	
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	
100A	UTS150-N-ATU-100-2	UTS150-N-ATU-100-3	UTS150-H-ATU-100-2	UTS150-H-ATU-100-3	
125A	UTS150-N-ATU-125-2	UTS150-N-ATU-125-3	UTS150-H-ATU-125-2	UTS150-H-ATU-125-3	
150A	UTS150-N-ATU-150-2	UTS150-N-ATU-150-3	UTS150-H-ATU-150-2	UTS150-H-ATU-150-3	
Ampere Rating, In	150kA at 240V, 100kA at 480V, 50kA at 600V		Adjustable range		
	2-Pole	3-Pole	Thermal	Magnetic	
100A	UTS150-L-ATU-100-2	UTS150-L-ATU-100-3	80-100A	500-1000A	
125A	UTS150-L-ATU-125-2	UTS150-L-ATU-125-3	100~125A	625~1250A	
150A	UTS150-L-ATU-150-2	UTS150-L-ATU-150-3	120-150A	750-1500A	
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		
60A	UTS150-N-ETS23-60-3		UTS150-H-ETS23-60-3		
100A	UTS150-N-ETS23-100-3		UTS150-H-ETS23-100-3		
150A	UTS150-N-ETS23-150-3		UTS150-H-ETS23-150-3		
Ampere Rating, In	150kA at 240V, 100kA at 480V, 50kA at 600V		Setting value		
	3-Pole		Ir (A)	Ii (A)	Tr (s)
60A	UTS150-L-ETS23-60-3		15~60A	(1.5, 2, 3, 4, 5, 6, 8, 10, 11) x In	0.5, 1, 2, 4, 8, 16, Accuracy ±20%
100A	UTS150-L-ETS23-100-3		40~100A		
150A	UTS150-L-ETS23-150-3		60~150A		

UTS150 FRAME

CIRCUIT BREAKER

WWITH ETS23 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			
60A	UTS150-N-ETS23-60-3		UTS150-H-ETS23-60-3			
100A	UTS150-N-ETS23-100-3		UTS150-H-ETS23-100-3			
150A	UTS150-N-ETS23-150-3		UTS150-H-ETS23-150-3			
Ampere Rating, In	150kA at 240V, 100kA at 480V, 50kA at 600V		Setting value			
	3-Pole		Ir (A)	I _{sd} (A)	Ii (A)	
60A	UTS150-L-ETS23-60-3		15~60A	(1.5, 2, 3, 4, 5, 6, 7, 8, 10) x Ir	(1.5, 2, 3, 4, 5, 6, 8, 10, 11) x In	
100A	UTS150-L-ETS23-100-3		40~100A	Accuracy ±15%		
150A	UTS150-L-ETS23-150-3		60~150A			
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			
60A	UTS150-N-ETS23-60-3		UTS150-H-ETS23-60-3			
100A	UTS150-N-ETS23-100-3		UTS150-H-ETS23-100-3			
150A	UTS150-N-ETS23-150-3		UTS150-H-ETS23-150-3			
Ampere Rating, In	150kA at 240V, 100kA at 480V, 50kA at 600V		Setting value			
	3-Pole		Ir (A)	Ii (A)	Ig (A)	tg (ms)
60A	UTS150-L-ETS23-60-3		15~60A			
100A	UTS150-L-ETS23-100-3		40~100A	11 x In (Fixed)	0.2~1 x In	100, 200, 300, 400
150A	UTS150-L-ETS23-150-3		60~150A			
* Time delay at 6 x Ir: fixe 16s, accuracy +20%			* Time delay: non-tripping time 70ms / maximum break time 140ms			* Tripping time: <60ms

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

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

* Tripping time: ≤60ms

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
150A	UTS150-N-MCS-150-2	UTS150-N-MCS-150-3	UTS150-H-MCS-150-2	UTS150-H-MCS-150-3
Ampere Rating, In	150kA at 240V, 100kA at 480V, 50kA at 600V			
	2-Pole		3-Pole	
150A	UTS150-L-MCS-150-2		UTS150-L-MCS-150-3	

MOTOR CIRCUIT PROTECTOR

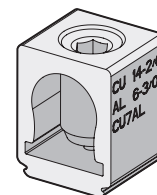
WITH MCP TRIP UNIT (ADJUSTABLE MAGNETIC ONLY)				
Ampere Rating, In	3-Pole	3-Pole	3-Pole	Magnetic range
1.6A	UTS150-N-MCP-1.6-3	UTS150-H-MCP-1.6-3	UTS150-L-MCP-1.6-3	10-20A
3.2A	UTS150-N-MCP-3.2-3	UTS150-H-MCP-3.2-3	UTS150-L-MCP-3.2-3	20-40A
6.3A	UTS150-N-MCP-6.3-3	UTS150-H-MCP-6.3-3	UTS150-L-MCP-6.3-3	40-80A
12A	UTS150-N-MCP-12-3	UTS150-H-MCP-12-3	UTS150-L-MCP-12-3	70-140A
20A	UTS150-N-MCP-20-3	UTS150-H-MCP-20-3	UTS150-L-MCP-20-3	120-240A
32A	UTS150-N-MCP-32-3	UTS150-H-MCP-32-3	UTS150-L-MCP-32-3	190-380A
50A	UTS150-N-MCP-50-3	UTS150-H-MCP-50-3	UTS150-L-MCP-50-3	300-600A
60A	UTS150-N-MCP-60-3	UTS150-H-MCP-60-3	UTS150-L-MCP-60-3	400-800A
100A	UTS150-N-MCP-100-3	UTS150-H-MCP-100-3	UTS150-L-MCP-100-3	600-1200A
150A	UTS150-N-MCP-150-3	UTS150-H-MCP-150-3	UTS150-L-MCP-150-3	900-1800A

ACCESSORIES FOR UTS150

MECHANICAL LUGS

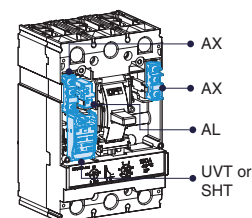
MAXIMUM BREAKER AMPERES	TERMINAL BODY MATERIAL	WIRE TYPE	ORDERING TYPE
150A	Aluminum	Cu/Al	AL150TS

AL150TS 1.6~150A 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 "ON" "OFF" or "ON"	PHL2



<Plate Handle Lock>

MECHANICAL INTERLOCKING DEVICE

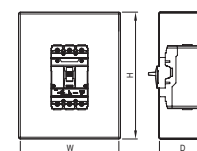
DESCRIPTION	ORDERING TYPE
For 3-Pole breaker	MIT23



<Mechanical Interlock>

ENCLOSURE

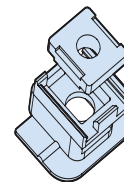
ENCLOSURE DIMENSION (W X H X D) Inch (mm)	ORDERING TYPE
8.58 (218) x 18.11 (460) x 4.02 (102)	-



ACCESSORIES FOR UTS150

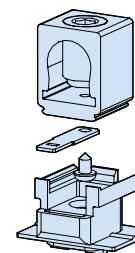
TERMINAL PLATES FOR BUSBAR CONNECTION

DESCRIPTION	QTY PER KIT	ORDERING TYPE
For 3-Pole breaker	3	TP2a3



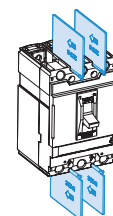
CONTROL WIRE TERMINALS

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



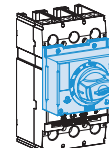
INSULATION BARRIERS

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

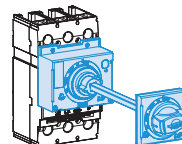


ROTARY OPERATING HANDLES

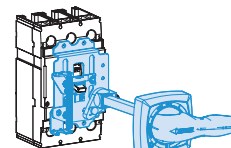
DESCRIPTION	TYPE	ORDERING TYPE
Directly Mounted	NEMA Type 1	DH-2
Directly Mounted (with Key lock)	NEMA Type 1	DHK-2
Extended (Door-Mounted)	NEMA Type 1	REH-2
NEMA Door-Mounted	NEMA Type 1, 12	EHU-2
	NEMA Type 3, 3R, 4	EHV-2
	NEMA Type 3, 4, 4X	EHX-2



<DH-2>



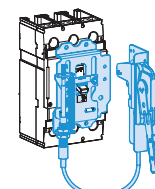
<REH-2>



<EHU-2>

FLANGE HANDLES WITH SLIDING OPERATING MECHANISM

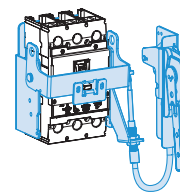
DESCRIPTION	TYPE	ORDERING TYPE
Handle (with sliding mechanism and without cable)	NEMA Type 1, 12, 3, 3R, 4	FHU-2
	NEMA Type 4, 4X	FHX-2
Cable	36 inch	FH2-36
	48 inch	FH2-48
	60 inch	FH2-60
	72 inch	FH2-72



<FHU-2>

FLANGE HANDLES WITH CABLE OPERATING MECHANISM

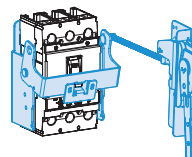
DESCRIPTION	TYPE	ORDERING TYPE
Cable operating mechanism (without cable)		COM-2
Standard type handle (with operating mechanism)	NEMA Type 1, 12, 3, 3R, 4	[COM-2]+[FHU-S]
	NEMA Type 4, 4X	[COM-2]+[FHX-S]
Cable	36 inch	FH2-36
	48 inch	FH2-48
	60 inch	FH2-60
	72 inch	FH2-72



<COM-2>

FLANGE HANDLES WITH CABLE 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