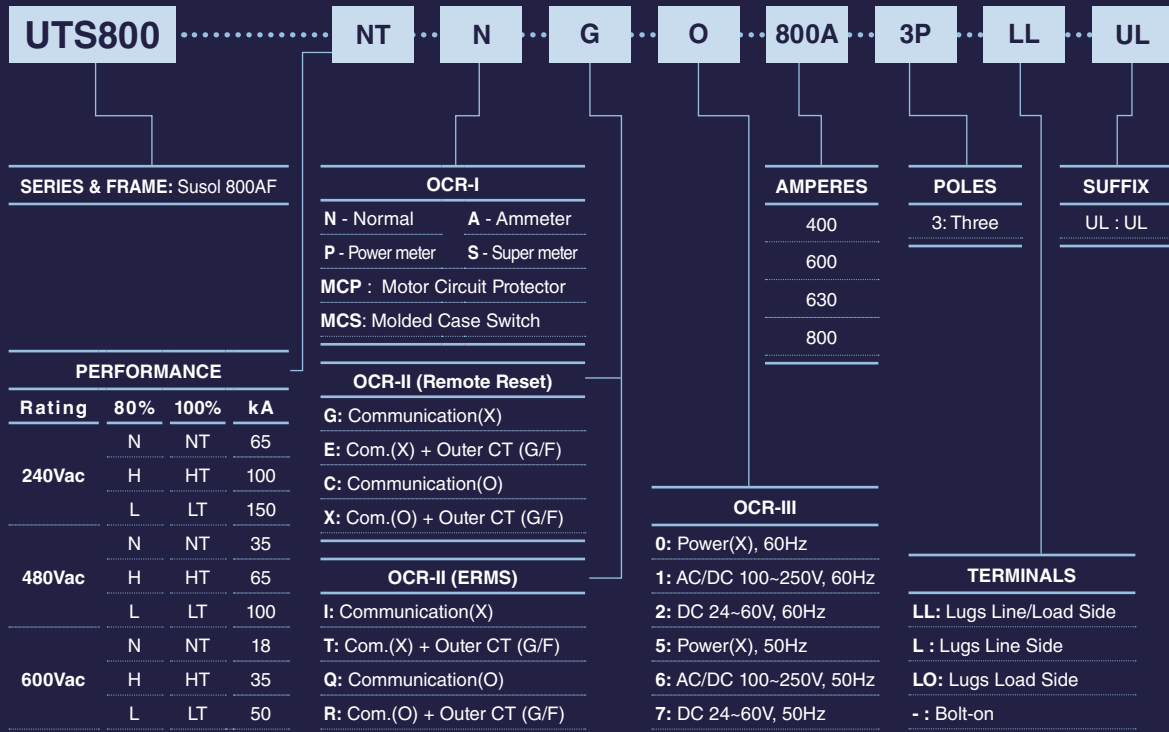


# SELECTION GUIDE

# UTS800



## CATALOG NUMBERING [PRODUCT SELECTION]



## UTS800 FRAME

UTS800 breaker is HACR rated

### UL489 RATINGS

BREAKER TYPE	NUMBER OF POLES	INTERRUPTING CAPACITY (kA rms) AC 50/60Hz		
		240V ac	480V ac	600V ac
UTS800N	3	65	35	18
UTS800H	3	100	65	35
UTS800L	3	150	100	50

### IEC60947-2 RATINGS

BREAKER TYPE	NUMBER OF POLES	INTERRUPTING CAPACITY(kA rms) AC 50/60Hz, Icu			RATED SHORT-TIME WITHSTAND CURRENT (Icw)	UTILIZATION CATEGORY
		220/240V	380/415V	480/500V		
UTS800N	3	65	35	18	18kA	B
UTS800H	3	100	65	35	-	A
UTS800L	3	150	100	50	-	A
Service breaking capacity, Ics (%Icu)				100%		
Insulation Voltage, Ui				1000 Vac		
Impulse Withstand Voltage, Uimp				8 kVac		

### DIMENSIONS

POLE	DIMENSIONS inch (mm)		
	W	H	D
3-Pole	8.27 (210)	12.88 (327.2)	6 (152.5)

### CIRCUIT BREAKER

WITH N (NORMAL) TYPE TRIP UNIT				
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	Remarks
	3-Pole	3-Pole	3-Pole	
400A	UTS800-N.N●■-400-3	UTS800-H.N●■-400-3	UTS800-L.N●■-400-3	Long time delay / Short time delay Instantaneous / Ground faults / Self power ※ LCD/SMPS is Removed from A type
600A	UTS800-N.N●■-600-3	UTS800-H.N●■-600-3	UTS800-L.N●■-600-3	
630A	UTS800-N.N●■-630-3	UTS800-H.N●■-630-3	UTS800-L.N●■-630-3	
800A	UTS800-N.N●■-800-3	UTS800-H.N●■-800-3	UTS800-L.N●■-800-3	

WITH A (AMMETER) TYPE TRIP UNIT				
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	Remarks
	3-Pole	3-Pole	3-Pole	
400A	UTS800-N.A●■-400-3	UTS800-H.A●■-400-3	UTS800-L.A●■-400-3	All function of N type / Earth Leakage (Except residual current) ZSI / Comm. (Modbus, Profibus) AC/DC 100-250V / DC 24-60V Fault Recording 10ea
600A	UTS800-N.A●■-600-3	UTS800-H.A●■-600-3	UTS800-L.A●■-600-3	
630A	UTS800-N.A●■-630-3	UTS800-H.A●■-630-3	UTS800-L.A●■-630-3	
800A	UTS800-N.A●■-800-3	UTS800-H.A●■-800-3	UTS800-L.A●■-800-3	

WITH P (POWER METER) TYPE TRIP UNIT				
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	Remarks
	3-Pole	3-Pole	3-Pole	
400A	UTS800-N.P●■-400-3	UTS800-H.P●■-400-3	UTS800-L.P●■-400-3	All function of A type (UV/OV/OF/UF/RV/Vun/Cun) <sup>a)</sup> Measuring (V/A/W/P/F/PF) <sup>b)</sup> Fault Recording 256ea/ Event Recording 256ea
600A	UTS800-N.P●■-600-3	UTS800-H.P●■-600-3	UTS800-L.P●■-600-3	
630A	UTS800-N.P●■-630-3	UTS800-H.P●■-630-3	UTS800-L.P●■-630-3	
800A	UTS800-N.P●■-800-3	UTS800-H.P●■-800-3	UTS800-L.P●■-800-3	

Note :

a) UV: Under Voltage // OV: Over Voltage // OF: Over Frequency // UF: Under Frequency // RV: Reverse power // Vun: Voltage Unbalance // Cun: Current Unbalance

b) V: Voltage // A: Ampere // W: Watt // P: Power // F: Frequency // PF: Power factor

●: OCR-II, ■: OCR-III

## UTS800 FRAME

### CIRCUIT BREAKER

WITH S (SUPER METER) TYPE TRIP UNIT				
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	Remarks
	3-Pole	3-Pole	3-Pole	S(super meter) type trip unit *1
400A	UTS800-N-S●■-400-3	UTS800-H-S●■-400-3	UTS800-L-S●■-400-3	All function of P type Display Harmonics and wave forms
600A	UTS800-N-S●■-600-3	UTS800-H-S●■-600-3	UTS800-L-S●■-600-3	
630A	UTS800-N-S●■-630-3	UTS800-H-S●■-630-3	UTS800-L-S●■-630-3	
800A	UTS800-N-S●■-800-3	UTS800-H-S●■-800-3	UTS800-L-S●■-800-3	

Note \*1 : The range of rated current setting is same with 4 Types but P/S type is able to set detail adjustment of rated current per 1A ( Fine Adjustable )

### 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	150kA at 240V, 100kA at 480V, 50kA at 600V	Remarks
	3-Pole	3-Pole	3-Pole	MCS type trip unit
800A	UTS800-N-MCS●■-800-3	UTS800-H-MCS●■-800-3	UTS800-L-MCS●■-800-3	Magnetic range : 12000A fixed

### MOTOR CIRCUIT PROTECTOR

WITH MCP TRIP UNIT (ADJUSTABLE MAGNETIC ONLY)				
Ampere Rating, In	3-Pole	3-Pole	3-Pole	Remarks
	MCP type trip unit			
800A	UTS800-N-MCP●■-800-3	UTS800-H-MCP●■-800-3	UTS800-L-MCP●■-800-3	Magnetic range : 2~12In

ITEM	SETTING RANGE
<b>Ir</b> (rated current)	0.4~1.0 In
<b>Tr</b> (long time tripping delay)	0.5~20 (s)
<b>Isd</b> (short time current)	1.5~10 Ir
<b>Tsd</b> (short time tripping delay)	0.05~0.4 (s)

ITEM	SETTING RANGE
<b>Ii</b> (instantaneous current)	2~15 In
<b>Tg</b> (ground fault tripping delay)	0.05~0.4 (s)
<b>Ig</b> (ground fault current)	0.2~1In

●	OCR-II (Remote Reset)	OCR-II (ERMS)
	<b>G</b> : Communication(X)	<b>I</b> : Communication(X)
	<b>E</b> : Com.(X)+Outer CT(G/F)	<b>T</b> : Com.(X)+Outer CT(G/F)
	<b>C</b> : Communication(O)	<b>G</b> : Communication(O)
	<b>X</b> : Com.(O)+Outer CT(G/F)	<b>R</b> : Com.(O)+Outer CT(G/F)

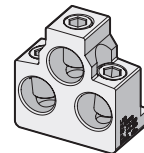
■	OCR-III
	<b>0</b> : Power(X), 60Hz
	<b>1</b> : AC/DC 100~250V, 60Hz
	<b>2</b> : DC 24~60V, 60Hz
	<b>5</b> : Power(X), 50Hz
	<b>6</b> : AC/DC 100~250V, 50Hz
	<b>7</b> : DC 24~60V, 50Hz

## ACCESSORIES FOR UTS800

### MECHANICAL LUGS

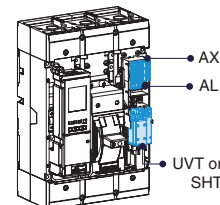
MAXIMUM BREAKER AMPERES	TERMINAL BODY MATERIAL	WIRE TYPE	ORDERING TYPE
800A	Aluminum	Cu/Al	AL800TS

AL800TS 400-800A Lug



### INNER ACCESSORIES

DESCRIPTION	CONTROL VOLTAGE	ORDERING TYPE
Auxiliary Switch, AX		
Alarm Switch, AL		
Shunt Trip, SHT	DC 24-30V	
	AC 48V/DC 48-60V	
	AC/DC 100-130V	
	AC/DC 200-250V	
Undervoltage Trip, UVT	AC 380-480V	
	DC 24-30V	
	AC 48V/DC 48-60V	
	AC/DC 100-130V	
Undervoltage Trip, UVT	AC/DC 200-250V	
	AC 380-480V	



Type	Right(T)
AX	3
AL	1
SHT	1*
UVT	1*

\* Applicable in indicated pole position-not synchronous

### PADLOCKING DEVICE

DESCRIPTION	ORDERING TYPE
Lock in "OFF" position	PL5



<Pad Lock>

### PLATE HANDLE LOCKING DEVICE

DESCRIPTION	ORDERING TYPE
Lock in "OFF" or "ON" position	PHL5



<Plate Handle Lock>

### MECHANICAL INTERLOCKING DEVICE

DESCRIPTION	ORDERING TYPE
For 3-Pole breaker	MIT53

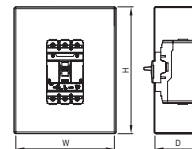


<Mechanical Interlock>

## ACCESSORIES FOR UTS800

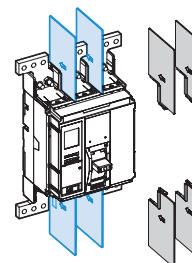
### ENCLOSURE

ENCLOSURE DIMENSION (W X H X D) inch (mm)	ORDERING TYPE
20.25 (514.4) x 51.9 (1318.3) x 7.75 (196.9)	-



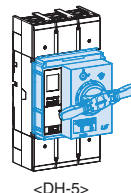
### INSULATION BARRIERS

DESCRIPTION	QTY PER KIT	ORDERING TYPE
Standard type	2	B53
Extended type	2	BE53

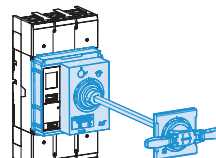


### ROTARY OPERATING HANDLES

DESCRIPTION	TYPE	ORDERING TYPE
Directly Mounted	NEMA Type 1	DH-5
Directly Mounted (with Key lock)	NEMA Type 1	DHK-5
Extended (Door-Mounted)	NEMA Type 1	REH-5
	NEMA Type 1, 12	EHU-5
NEMA Door-Mounted	NEMA Type 3, 3R, 4	EHV-5
	NEMA Type 3, 4, 4X	EHX-5



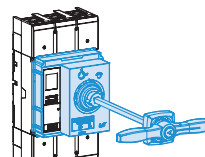
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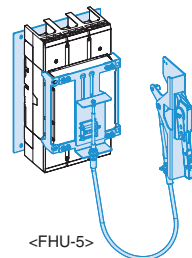
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### FLANGE OPERATING HANDLES

DESCRIPTION	TYPE	ORDERING TYPE
Handles (Including driving part/ excluding cable)	NEMA Type 1, 12, 3, 3R, 4	FHU-5
	NEMA Type 4, 4X	FHX-5
Cable	60 inch	FH5-60
	84 inch	FH5-84
	128 inch	FH5-128



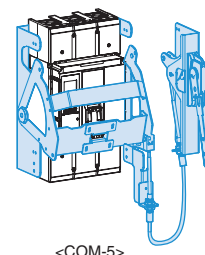
<EHU-5>



<FHU-5>

**FLANGE HANDLES WITH CABLE OPERATING MECHANISM**

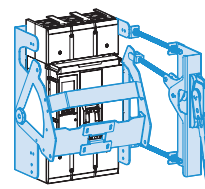
DESCRIPTION	TYPE	ORDERING TYPE
Cable operating mechanism (without cable)		COM-5
Long type handle (with operating mechanism)	NEMA Type 1, 12, 3, 3R, 4	FHU-L
	NEMA Type 4, 4X	FHX-L
Cable	60 inch	FH5-60
	84 inch	FH5-84
	128 inch	FH5-128



<COM-5>

**FLANGE HANDLES WITH VARIABLE-DEPTH OPERATING MECHANISM**

Description	Type	Ordering type
Variable depth operating mechanism with threaded-rod and handle		VDM-5
Long type handle (with operating mechanism)	NEMA Type 1, 12, 3, 3R, 4	FHU-L
	NEMA Type 4, 4X	FHX-L



<VDM-5>

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