

Beyond X™

Susol MCCB

Up to 690/800/1000Vac
for Renewable Application and High Altitude



LS ELECTRIC

Characteristics and Rating

Characteristics

For renewable application and high altitude

- High breaking capacity
- Compact size
- Various trip unit options
- Standards: Dual-rated IEC/UL





Rating

FRAME		UTV250		
Rated voltage		690 [1]/800/1000 Vac		
Rated current		60, 80, 100, 150, 200, 250A		
Number of poles		3/4		
Breaker type		E	N	H [2]
UL489				
Interrupting capacity (kA) UL, CSA	AC 800V	25	42	50
	AC 1000V	14	20	30
IEC 60947-2				
Maximum fault current (kA), Icu	AC 690V	65	85	100
	AC 800V	25	40	50
	AC 1000V	15	20	30
Fault breaking capacity (kA), Ics	AC 690V	65	85	100
	AC 800V	18.5	30	37.5
	AC 1000V	8	10	15
Insulation voltage, Ui		1000 Vac		
Impulse withstand voltage, Uimp		8 kV		
Utilization category		A		
IEC 60947-3				
Insulation voltage, Ui		1000 Vac		
Impulse withstand voltage, Uimp		8 kV		
Rated short-time withstand current, Icw		3 kA		
Utilization category		AC-23A		
Trip Unit				
Trip unit	FTU*	60, 80, 100, 150, 200, 250A		
	FMU*	60, 80, 100, 150, 200, 250A		
	ATU*	100, 150, 200, 250A		
	MCS**	60, 80, 100, 150, 200, 250A		
	DSU***	250A		
Accessories				
Unit mounted		available		
Mechanical lugs		available		
Busbar connectors		available		
Control wire terminal kit		available		
Motor operator		available		
Interphase barriers		available		
Shunt trip		available		
Undervoltage trip		available		
Auxiliary switch		available		
Alarm switch		available		
Directly-Mounted rotary operating handle		available		
IEC-Door-Mounted operating mechanisms		available		
Padlock attachment		available		
Weight(approximate), lbs.(kg)	3 Pole	4.85(2.20)		
	4 Pole	6.35(2.88)		
Dimensions, Inches(mm)		**W**	**H**	**D**
	3 Pole	4.13(105)	8.07(205)	3.62(92)
	4 Pole	5.51(140)	8.07(205)	3.62(92)

1), 2) TBD

* FTU, FMU, ATU: UL489, IEC 60947-2 ** UL 489 Only *** IEC 60947-3 Only

Ordering & Temperature derating

Ordering

UT	V	250	ET	FTU	250A	4P	UL
UL MCCB	AC 800/1000V	AF	Type / Rating / Interrupting (800Vac)	Trip unit	Rated current	Poles	UL standard

AF

250	250AF

Type	Rating	Interrupting (800Vac)
ET	100%	25kA
E	80%	
NT	100%	42kA
N	80%	
HT	100%	50kA
H	80%	

Trip unit

FTU	Fixed Thermal, Fixed Magnet
FMU	Adj. Thermal, Fixed Magnet
ATU	Adj. Thermal, Magnet
MCS	Molded Case Switch
DSU	Disconnect Switch (NA type Only)

Rated current

60A
:
250A

Poles

3P	3Poles
4P	4Poles

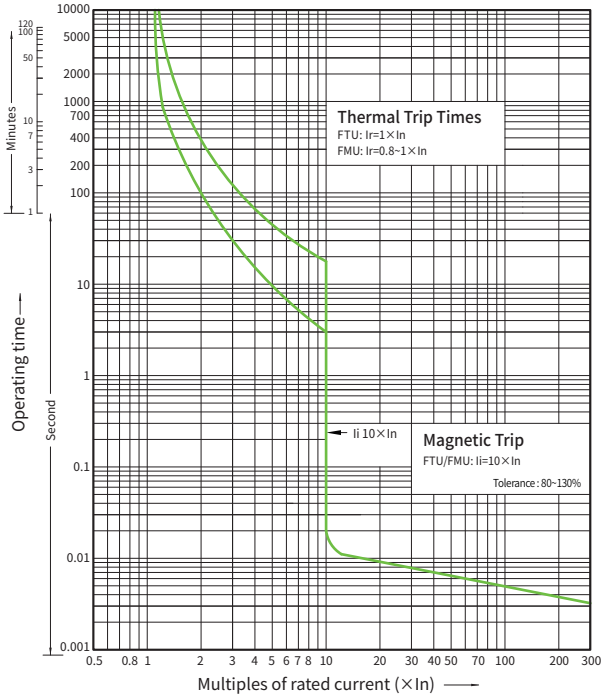
Temperature derating

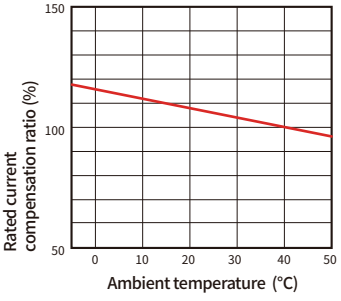
Type		Rated current (A)	Derating current (A)		Compensated rated currnet in accordance with ambient temperature (A)															
					10°C		20°C		30°C		40°C		45°C		50°C		60°C		70°C	
UL489	UTV250	60	60	100%	60	100%	60	100%	60	100%	60	100%	59	98%	57	95%	53	89%	50	83%
		80	80	100%	80	100%	80	100%	80	100%	80	100%	78	98%	76	95%	71	89%	66	83%
		100	100	100%	100	100%	100	100%	100	100%	100	100%	98	98%	95	95%	89	89%	83	83%
		150	150	100%	150	100%	150	100%	150	100%	150	100%	146	97%	141	94%	132	88%	123	82%
		200	200	100%	200	100%	200	100%	200	100%	200	100%	196	98%	190	95%	178	89%	166	83%
		250	250	100%	250	100%	250	100%	250	100%	250	100%	243	97%	235	94%	220	88%	205	82%

Characteristic curve

UTV250 MCCB

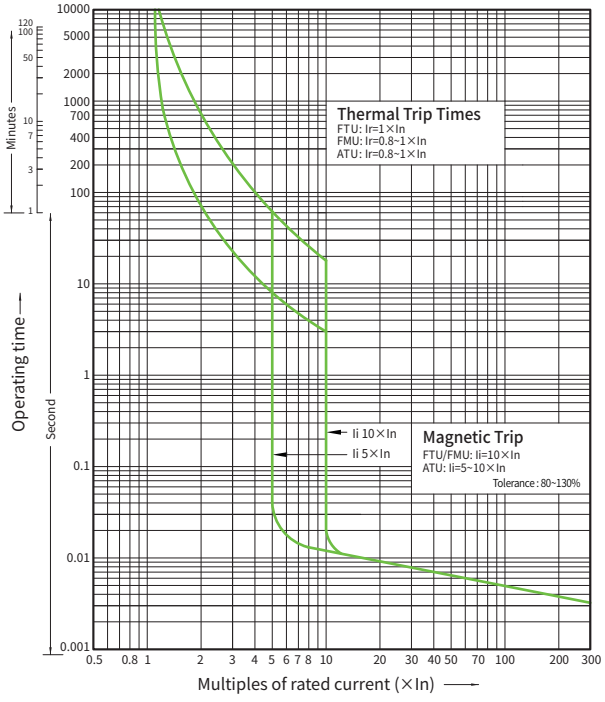
FTU
FMU
60~80A

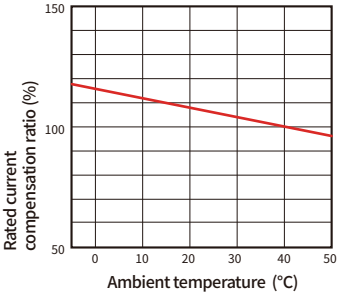




UTV250 MCCB

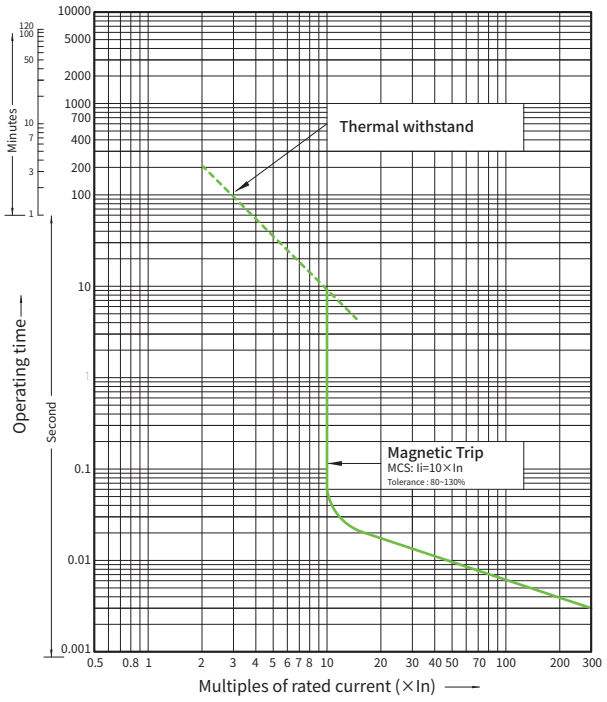
FTU
FMU
ATU
100~250A

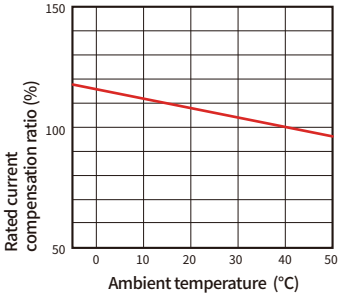




UTV250 MCS

60 ~ 250A

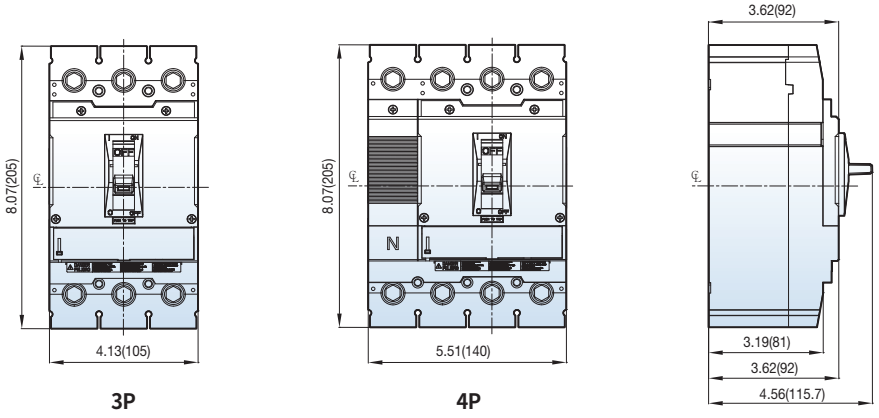




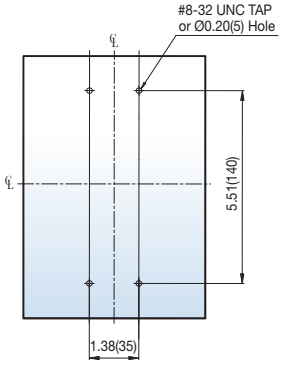
Dimensions

UTV250

[Unit:inch(mm)]

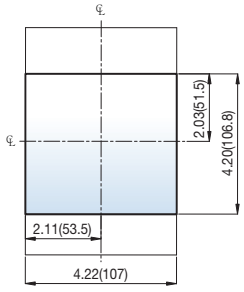


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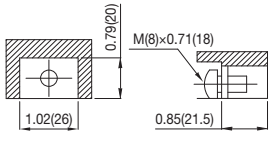


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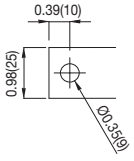
3P



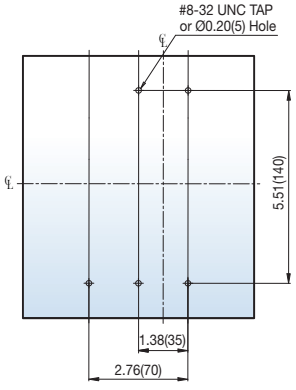
Terminal section



Conductor

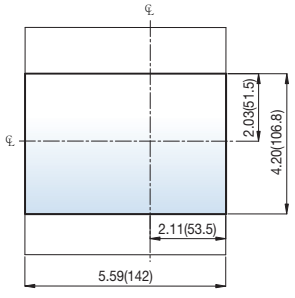


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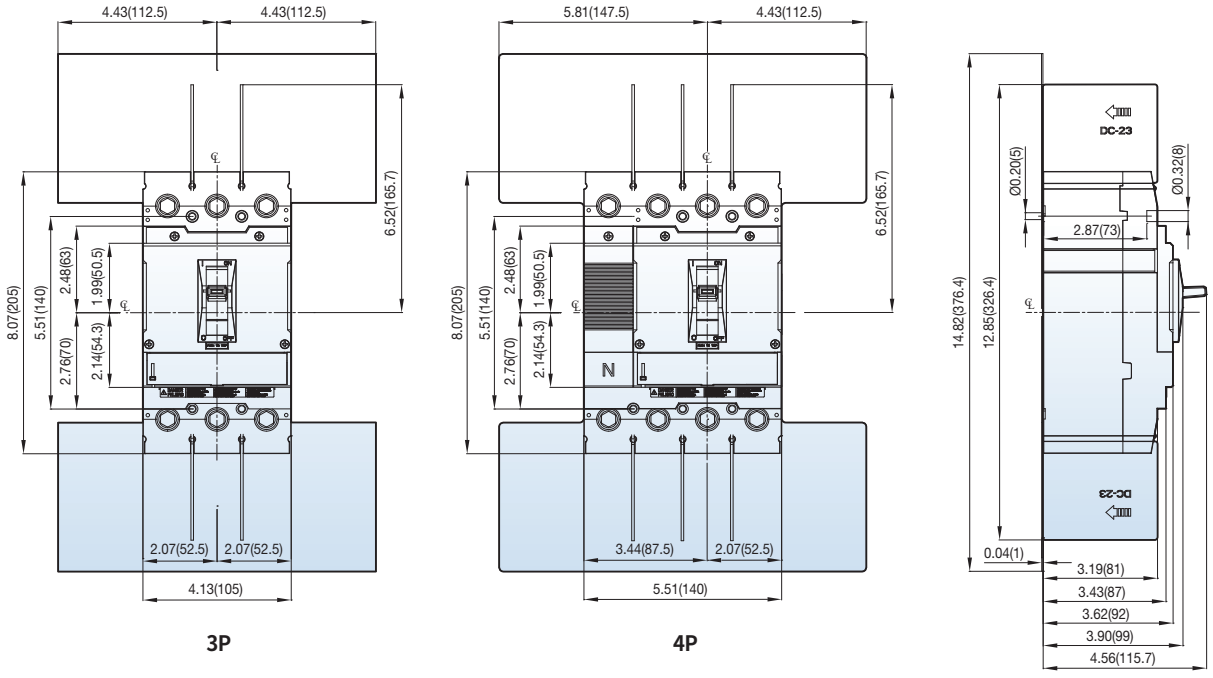
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4P



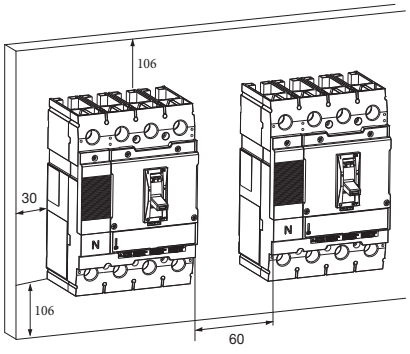
UTV250

[Unit:inch(mm)]



< By insulation and separation distance >

- One side (30mm or more),
- Up & down (106mm or more)
- Between products (60mm or more)



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