Product Data Sheet Characteristics



Susol Molded Case Circuit Breaker

TD160N

General

Product code	0102006400
Product description	TD160N FTU160 125A 3P EXP
Trip Unit	FTU(Fixed-thermal, Fixed-magnetic)
[In] rated current	125 A at 40 °C
Poles description	3P
Protected poles description	3T
Neutral position	-
Network type	AC (50/60 Hz), DC
Upside connection	Front (screw)
Downside connection	Front (screw)

Characteristics

[Ue] rated operational voltage (AC 50/60 Hz)	690 V AC
[Ue] rated operational voltage (DC)	500 V DC
[Uimp] rated impulse withstand voltage	8 kV
[Ui] rated insulation voltage	1000 V
Mechanical durability	25000 cycles
Electrical durability (AC)	10000 cycles 415 V In

Electrical durability (DC)	-
Utilisation category	Category A
Suitability for isolation	Yes
Reference standard	IEC 60947-2
[Icu] rated Ultimate short-circuit breaking capacity	85 kA at 220/240 V AC 50/60 Hz, IEC 60947-2
	50 kA at 380/415 V AC 50/60 Hz, IEC 60947-2
	50 kA at 440/460 V AC 50/60 Hz, IEC 60947-2
	30 kA at 480/500 V AC 50/60 Hz, IEC 60947-2
	22 kA at 525 V AC 50/60 Hz, IEC 60947-2
	10 kA at 660/690 V AC 50/60 Hz, IEC 60947-2
	42 kA at 250 V DC, Reference
	42 kA at 500 V DC (2poles in series), Reference
[Ics] rated service breaking capacity	85 kA at 220/240 V AC 50/60 Hz, IEC 60947-2
	50 kA at 380/415 V AC 50/60 Hz, IEC 60947-2
	50 kA at 440/460 V AC 50/60 Hz, IEC 60947-2
	30 kA at 480/500 V AC 50/60 Hz, IEC 60947-2
	22 kA at 525 V AC 50/60 Hz, IEC 60947-2
	5 kA at 660/690 V AC 50/60 Hz, IEC 60947-2
	42 kA at 250 V DC, Reference
	42 kA at 500 V DC (2poles in series), Reference
[Icm] rated short-circuit marking capacity	220 kA at 220/240 V AC 50/60 Hz, IEC 60947-2
	187 kA at 380/415 V AC 50/60 Hz, IEC 60947-2
	154 kA at 440/460 V AC 50/60 Hz, IEC 60947-2
	105 kA at 480/500 V AC 50/60 Hz, IEC 60947-2
	74 kA at 525 V AC 50/60 Hz, IEC 60947-2
	17 kA at 660/690 V AC 50/60 Hz, IEC 60947-2
[Icw] rated short-time withstand current	-
	-
	-

LS ELECTRIC

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Trip unit characteristics	Thermal-magnetic
	L : for overload protection (long time)
	-
	I : for instantaneous short-circuit protection
	-
	-
	-
	-
	-
	-
[Ir] Long-time pick-up adjustment range	Fixed
	-
[Iu] Long-time pick-up adjustment range	-
	-
[tr] Long-time delay adjustment range	-
	-
[Isd] Short-time pick-up adjustment range	-
	-
[tsd] Short-time delay adjustment range	-
	-
	-
	-
	-
	-
[Ii] Instantaneous pick-up adjustment range	Fixed
	10 x In

[Ig] Ground-fault protection pick-up adjustment range	-
	-
[tg] Ground-fault protection time delay adjustment range	-
	-
	-
	-
	-
	-
	-
Earth leakage pick-up adjustment range	-
	-
Earth leakage alam time delay adjustment range	-
	-
Earth leakage trip time delay adjustment range	-
	-
[Ip] Pre-trip alarm pick-up adjustment range	-
	-
[tp] Pre-trip alarm time delay adjustment range	-
	-
Alarm LED	-
	-

Environment

Pollution degree	3, IEC 60664-1
Degree of protection	IP20, IEC 60529
Ambient air temperature for operation	-20…70 °C
Ambient air temperature for storage	-40…70 °C
Mounting mode	Fixed
Mounting support	Backplate

Approvals[1] (General)	CE (Europe)
	-
	-
	CCC (China)
	EAC (Russia)
	IC (Korea)
Approvals (shipping)	LR (U.K)
	BV (France)
	ABS (U.S.A)
	GL (Germany)
	DNV (Norway)
	RINA (Italy)
	KR (Korea)

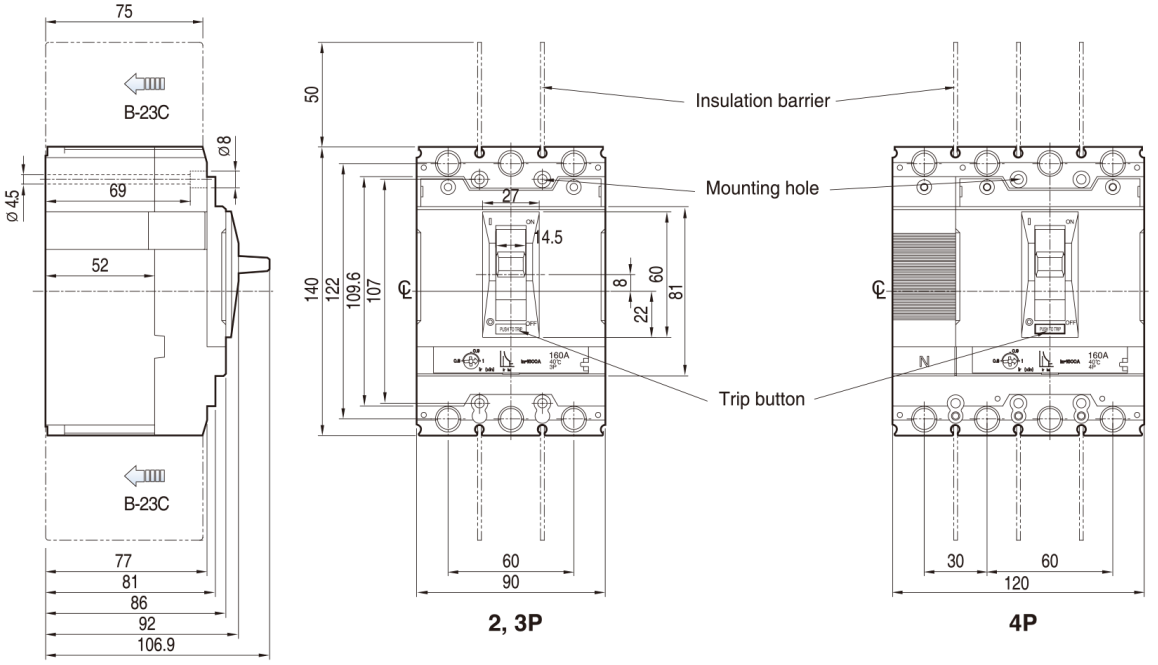
1) LS ELECTRIC's standard products are designed for CE.
To check the product with regional certificates, please contact LSE sales representatives.

Dimensions

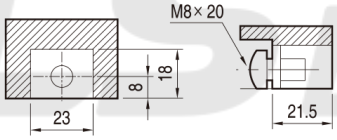
Product	Width	90 mm
	Height	140 mm
	Depth	86 mm
	Weight	1.5 kg
Packing	Width	295 mm
	Height	490 mm
	Depth	132 mm
	Weight	15 kg
	Quantity (in a box)	10 pcs.

TD100/160

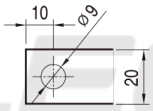
[mm]



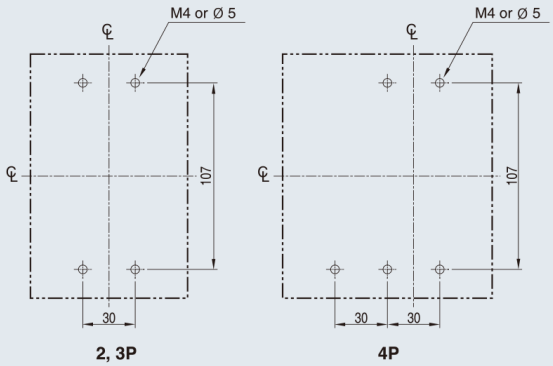
Terminal section



Conductor



Panel drilling



Front panel cutting

