Product Data Sheet Characteristics



Metasol Molded Case Circuit Breaker

ABN52c

General

Product code	0128002400
Product description	ABN52c 20A EXP
Trip Unit	FTU(Fixed-thermal, Fixed-magnetic)
[In] rated current	20 A at 40 °C
Poles description	2P
Protected poles description	2T
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

Electrical durability (DC)	-
Utilisation category	Category A
Suitability for isolation	Yes
Reference standard	IEC 60947-2
[Icu] rated Ultimate short-circuit breaking capacity	30 kA at 220/250 V AC 50/60 Hz, IEC 60947-2
	18 kA at 380 V AC 50/60 Hz, IEC 60947-2
	14 kA at 415/460 V AC 50/60 Hz, IEC 60947-2
	7.5 kA at 480/500 V AC 50/60 Hz, IEC 60947-2
	2.5 kA at 690 V AC 50/60 Hz, IEC 60947-2
	5 kA at 250 V DC (2poles in series), Reference
	-
	-
[Ics] rated service breaking capacity	30 kA at 220/250 V AC 50/60 Hz, IEC 60947-2
	18 kA at 380 V AC 50/60 Hz, IEC 60947-2
	14 kA at 415/460 V AC 50/60 Hz, IEC 60947-2
	7.5 kA at 480/500 V AC 50/60 Hz, IEC 60947-2
	2.5 kA at 690 V AC 50/60 Hz, IEC 60947-2
	5 kA at 250 V DC (2poles in series), Reference
	-
	-
[Icm] rated short-circuit marking capacity	63 kA at 220/250 V AC 50/60 Hz, IEC 60947-2
	36 kA at 380 V AC 50/60 Hz, IEC 60947-2
	28 kA at 415/460 V AC 50/60 Hz, IEC 60947-2
	12.75 kA at 480/500 V AC 50/60 Hz, IEC 60947-2
	3.75 kA at 690 V AC 50/60 Hz, IEC 60947-5
	-
[Icw] rated short-time	-
	-

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withstand current	-
	-
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
	400 A, tolerance ±20%

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[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 (Marine)	-
	-
	-
	-
	-
	-
	-

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

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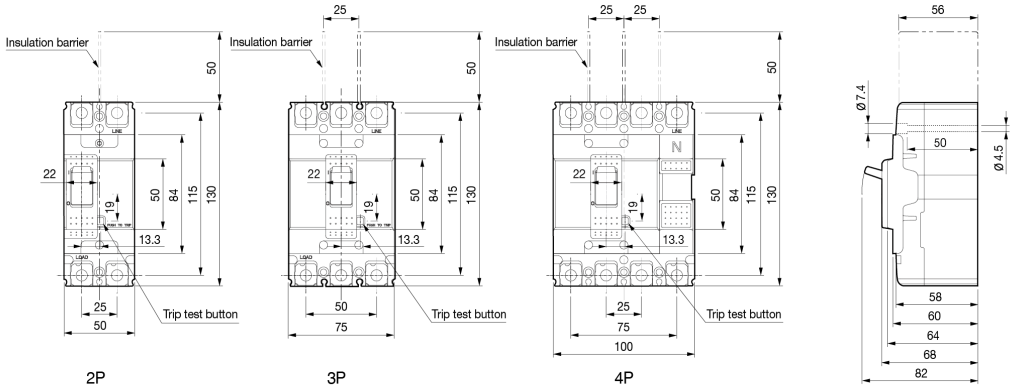
Dimensions

Product	Width	50 mm
	Height	130 mm
	Depth	60 mm
	Weight	0.5 kg
Packing	Width	385 mm
	Height	570 mm
	Depth	105 mm
	Weight	11.5 kg
	Quantity (in a box)	20 pcs.

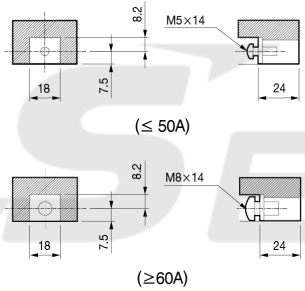
MCCB

ABN50c | ABS30c
ABN60c | ABS50c
ABN100c/100e | ABS60c

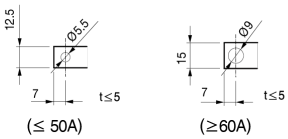
(Unit: mm)



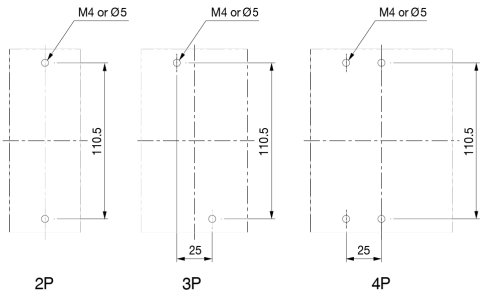
Terminal details



Connecting



Panel drilling



Front panel cutting

