

Metasol Molded Case Circuit Breaker  
ABN204c



General

Product code	0138002500
Product description	ABN204c 175A EXP
Trip Unit	FTU(Fixed-thermal, Fixed-magnetic)
[In] rated current	175 A at 40 °C
Poles description	4P
Protected poles description	3T
Neutral position	R-S-T-N
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	20000 cycles

Electrical durability (AC)	5000 cycles
Electrical durability (DC)	-
Utilisation category	Category A
Suitability for isolation	Yes
Reference standard	IEC 60947-2
[Icu] rated Ultimate short-circuit breaking capacity	65 kA at 220/250 V AC 50/60 Hz, IEC 60947-2
	30 kA at 380 V AC 50/60 Hz, IEC 60947-2
	26 kA at 415/460 V AC 50/60 Hz, IEC 60947-2
	18 kA at 480/500 V AC 50/60 Hz, IEC 60947-2
	8 kA at 690 V AC 50/60 Hz, IEC 60947-2
	-
	10 kA at 500 V DC (3poles in series), Reference
	-
[Ics] rated service breaking capacity	65 kA at 220/250 V AC 50/60 Hz, IEC 60947-2
	30 kA at 380 V AC 50/60 Hz, IEC 60947-2
	26 kA at 415/460 V AC 50/60 Hz, IEC 60947-2
	18 kA at 480/500 V AC 50/60 Hz, IEC 60947-2
	8 kA at 690 V AC 50/60 Hz, IEC 60947-2
	-
	10 kA at 500 V DC (3poles in series), Reference
	-
[Icm] rated short-circuit marking capacity	143 kA at 220/250 V AC 50/60 Hz, IEC 60947-2
	63 kA at 380 V AC 50/60 Hz, IEC 60947-2
	54.6 kA at 415/460 V AC 50/60 Hz, IEC 60947-2
	36 kA at 480/500 V AC 50/60 Hz, IEC 60947-2
	13.6 kA at 690 V AC 50/60 Hz, IEC 60947-40
	-
[Icw] rated short-time	-
	-

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
	12 x In, tolerance $\pm 20\%$

[Ig] Ground-fault protection pick-up adjustment range	-
	-
[tg] Ground-fault protection time delay adjustment range	-
	-
	-
	-
	-
	-
	-
Earth leakage pick-up adjustment range	-
	-
Earth leakage alarm 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 <sup>1)</sup> (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.

## Dimensions

Product	Width	140 mm
	Height	165 mm
	Depth	60 mm
	Weight	1.6 kg
Packing	Width	310 mm
	Height	525 mm
	Depth	105 mm
	Weight	9 kg
	Quantity (in a box)	5 pcs.

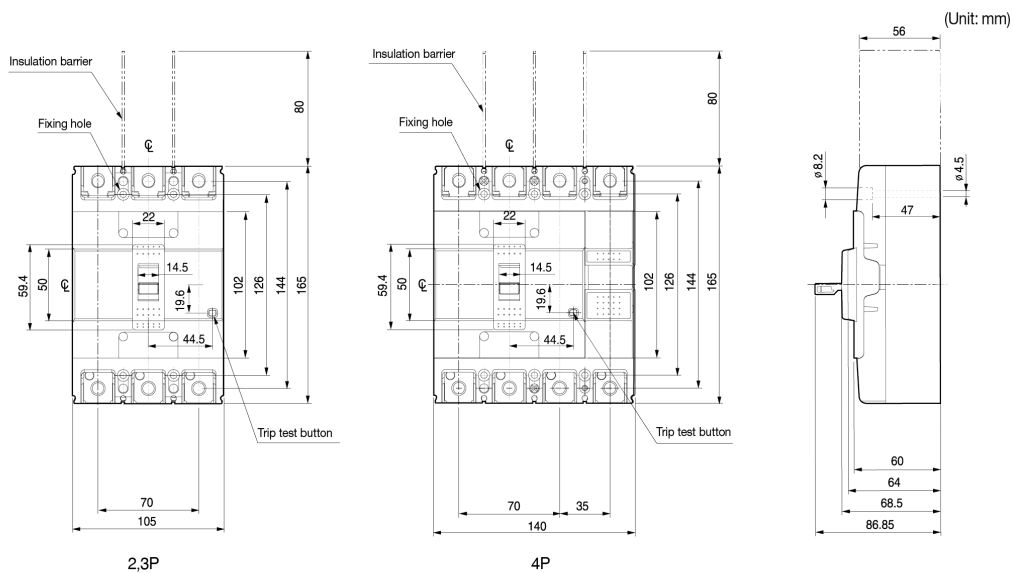
# MCCB

ABN250c

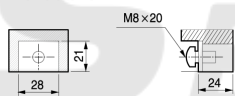
ABS250c

ABH250c

ABL250c



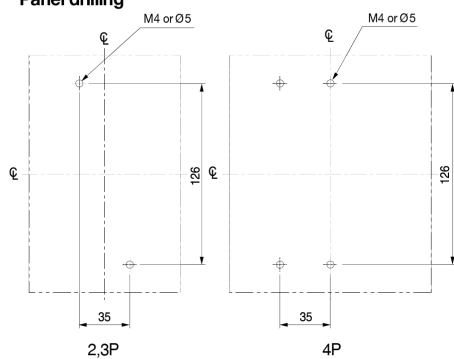
## Terminal details



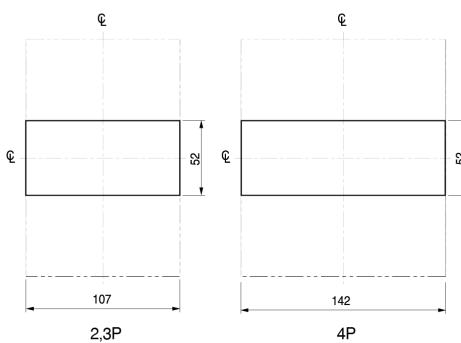
## Connecting



## Panel drilling



## Front panel cutting



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