ABN803c

LS ELECTRIC — Metasol Molded Case Circuit Breaker (MCCB)



GENERAL	
Product code	**0166002300**
Product description	**ABN803c 500A EXP**
Product type	**Metasol Molded Case Circuit Breaker**
Product name	**ABN803c**
Trip Unit	**FTU(Fixed-thermal, Fixed-magnetic)**
[In] rated current	**500 A at 40 °C**
Poles description	**3P**
Protected poles description	**3T**
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	**2500 cycles**
Electrical durability (AC)	**500 cycles**
Utilisation category	**Category A**
Suitability for isolation	**Yes**
Reference standard	**IEC 60947-2**
[Icu] rated Ultimate short-circuit breaking capacity	**50 kA at 220/250 V AC 50/60 Hz, IEC 60947-2**
[Icu] rated Ultimate short-circuit breaking capacity	**45 kA at 380 V AC 50/60 Hz, IEC 60947-2**
[Icu] rated Ultimate short-circuit breaking capacity	**37 kA at 415/460 V AC 50/60 Hz, IEC 60947-2**
[Icu] rated Ultimate short-circuit breaking capacity	**25 kA at 480/500 V AC 50/60 Hz, IEC 60947-2**
[Icu] rated Ultimate short-circuit breaking capacity	**8 kA at 690 V AC 50/60 Hz, IEC 60947-2**
[Icu] rated Ultimate short-circuit breaking capacity	**10 kA at 500 V DC (3poles in series), Reference**
[Ics] rated service breaking capacity	**50 kA at 220/250 V AC 50/60 Hz, IEC 60947-2**
[Ics] rated service breaking capacity	**45 kA at 380 V AC 50/60 Hz, IEC 60947-2**
[Ics] rated service breaking capacity	**37 kA at 415/460 V AC 50/60 Hz, IEC 60947-2**
[Ics] rated service breaking capacity	**25 kA at 480/500 V AC 50/60 Hz, IEC 60947-2**
[Ics] rated service breaking capacity	**8 kA at 690 V AC 50/60 Hz, IEC 60947-2**
[Ics] rated service breaking capacity	**10 kA at 500 V DC (3poles in series), Reference**
[Icm] rated short-circuit marking capacity	**105 kA at 220/250 V AC 50/60 Hz, IEC 60947-2**
[Icm] rated short-circuit marking capacity	**94.5 kA at 380 V AC 50/60 Hz, IEC 60947-2**
[Icm] rated short-circuit marking capacity	**77.7 kA at 415/460 V AC 50/60 Hz, IEC 60947-2**
[Icm] rated short-circuit marking capacity	**52.5 kA at 480/500 V AC 50/60 Hz, IEC 60947-2**
[Icm] rated short-circuit marking capacity	**13.6 kA at 690 V AC 50/60 Hz, IEC 60947-63**

Trip unit characteristics	**Thermal-magnetic**
Trip unit characteristics	**L : for overload protection (long time)**
Trip unit characteristics	**I : for instantaneous short-circuit protection**
[Ir] Long-time pick-up adjustment range	**Fixed**
[Ii] Instantaneous pick-up adjustment range	**Fixed**
[Ii] Instantaneous pick-up adjustment range	**10 x In, tolerance ±20%**
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**
Approvals¹⁾ (General)	**CE (Europe)**
Approvals¹⁾ (General)	**CCC (China)**
Approvals¹⁾ (General)	**EAC (Russia)**
Approvals (Marine)	**LR (U.K)**
Approvals (Marine)	**BV (France)**
Approvals (Marine)	**ABS (U.S.A)**
Approvals (Marine)	**GL (Germany)**
Approvals (Marine)	**DNV (Norway)**
Approvals (Marine)	**RINA (Italy)**
Approvals (Marine)	**KR (Korea)**
DIMENSIONS	
Product	**210 mm**
Product	**280 mm**
Product	**109 mm**
Product	**8.8 kg**
Packing	**230 mm**
Packing	**283 mm**
Packing	**165 mm**
Packing	**8.8 kg**
Packing	**1 pcs.**
Overall dimensions	**Metasol MCCB_Catalog_EN-6.png**