



## CIRCUIT BREAKER C16N3TM160

URL: <https://www.sxplc.com/circuit-breaker-c16n3tm160>

### Product data sheet

Product Type Circuit Breaker

Application Power Distribution Protection

Number of Poles 3P

Description of protection poles 3D

Rated current [In] 160 A at ... up 40 °C

Rated operating voltage [Ue] 690 V AC 50/60 Hz

Grid type AC

Grid frequency 50/60 Hz

Isolation function Applicable Conforms to TM-D

Class of use AC

[Icu] Rated ultimate short-circuit breaking capacity 90 kA Icu on 220/240 V AC 50/60 Hz in accordance with IEC 60947-2

50 kA Icu on ... 380/415 V AC 50/60 Hz in accordance with IEC 60947-2

50 kA Icu on ... 440 V AC 50/60 Hz in accordance with IEC 60947-2

36 kA Icu on ... 500 V AC 50/60 Hz in accordance with IEC 60947-2

35 kA Icu on ... 525 V AC 50/60 Hz in accordance with IEC 60947-2

10 kA Icu on ... 660/690 V AC 50/60 Hz in accordance with IEC 60947-2

Breaking capacity N 50 kA 415 V AC

Name of disconnecter TM-D

Type of release Thermo-magnetic

Function LI

Type of control Handle

Circuit breaker mounting type Fixed

Additional Information

Rated insulation voltage [Ui] 800 V AC 50/60 Hz

Rated impulse withstand voltage [Uimp] 8 kV

Rated operational short-circuit breaking capacity [Ics] 90 kA at ... 220/240 V AC 50/60 Hz in accordance with IEC 60947-2

50 kA at ... 380/415 V AC 50/60 Hz in accordance with IEC 60947-2

50 kA on ... 440 V AC 50/60 Hz in accordance with IEC 60947-2

36 kA at ... 500 V AC 50/60 Hz in accordance with IEC 60947-2

35 kA at ... 525 V AC 50/60 Hz in accordance with IEC 60947-2

10 kA on ... 660/690 V AC 50/60 Hz in accordance with IEC 60947-2

Mechanical life 40000

Electrical life 40000 cycles on 440 V In/2

20000 cycles 440 V In on ....

15000 cycles 690 V In/2 on ....

7500 cycles 690 V In on ...

Power consumption 13.95 W per pole

Mounting method Base plate mounting

Mounting position Horizontal and vertical

Flat on the back

Connection type - top Front connection

Connection type - bottom Front connection

Pole spacing 35 mm

Protection type L : for overload protection (thermal protection)

I : for short-circuit protection (magnetic protection)

Tripper rating 160 A at ... up 40 °C

Long delay current setting  $I_r$  (thermal protection) adjustable

[ $I_r$ ] Long delay overcurrent threshold setting range  $0.7 \dots 1 \times I_n$ .  $\dots 1 \times I_n$

Long delay time setting type  $t_r$  fixed

[ $t_r$ ] Long delay time protection delay setting range 120...400 s on ...  $1.5 \times I_n$

15 s on ...  $6 \times I_r$

Type of instantaneous overcurrent protection calibration  $I_i$  fixed

[ $I_i$ ] Instantaneous overcurrent protection Threshold setting range 1250 A

Leakage current protection No leakage protection

Number of mounting slots for electrical accessories 5 slots

Width (W) 105 mm

Height (H) 161 mm

Depth (D) 86 mm

Net weight 2.2 kg

ENVIRONMENTAL

Standard EN/IEC 60947

Product Certification CCC

EAC

Marine

Overvoltage Category Class II

Electric shock protection class Class II

Pollution Class 3 conforming to IEC 60664-1

IP Protection Class IP40 conforming to IEC 60529

IK protection class IK07 conforming to IEC 62262

Operating temperature -25...70 °C

Storage ambient temperature -50...85 °C

Relative humidity 0...95 %

Operating altitude 0... .2000 m .2000 m without degradation

2000 m... .5000 m with reduced capacity

