

# Eaton EMCS3100

Catalog Number: EMCS3100

Eaton Distribution parts. EM, C, 3-pole, 100A

## General specifications



|                          |                |
|--------------------------|----------------|
| Product Name             | Catalog Number |
| Eaton Distribution parts | EMCS3100       |
| Model Code               | EAN            |
| EMCS3100                 | 5019586151797  |
| Product Length/Depth     | Product Height |
| 90 mm                    | 75 mm          |
| Product Width            | Product Weight |
| 81 mm                    | 0.182 kg       |
| Compliances              |                |
| RoHS conform             |                |

## Product specifications

Rated operational current for specified heat dissipation (In)

100 A

Number of poles (protected)

3

Rated short-circuit breaking capacity (EN 60898) at 230 V

0 kA

Heat dissipation capacity

0 W

Release characteristic

C

Current limiting class

3

Rated short-circuit breaking capacity (EN 60898) at 400 V

0 kA

Amperage Rating

100 A

Frequency rating - max

60 Hz

Width in number of modular spacings

4.5

Rated short-circuit breaking capacity (IEC 60947-2) at 400 V

20 kA

Connectable conductor cross section (solid-core) - max

50 mm<sup>2</sup>

Number of poles (total)

3

Degree of protection

IP20

Overvoltage category

III

Rated short-circuit breaking capacity (IEC 60947-2) at 230 V

20 kA

Special features

Ambient temperature hint: a 1 °C increase results in a 0.35% linear reduction of current carrying capacity

## Resources

Installation instructions

IL019228ZU

Ambient operating temperature - max

55 °C

Pollution degree

2

Connectable conductor cross section (multi-wired) - min

2.5 mm<sup>2</sup>

Rated impulse withstand voltage (U<sub>imp</sub>)

4 kV

Built-in depth

75 mm

Features

Additional equipment possible

Connectable conductor cross section (solid-core) - min

2.5 mm<sup>2</sup>

Number of poles

Three-pole

Rated switching capacity (IEC/EN 60947-2)

20 kA

Ambient operating temperature - min

-25 °C

Connectable conductor cross section (multi-wired) - max

50 mm<sup>2</sup>

Type

EM

Miniature circuit breaker

Used with

EM

Miniature circuit breaker

Equipment heat dissipation, current-dependent

27.4 W

Tripping characteristic

C

Frequency rating - min

50 Hz

Static heat dissipation, non-current-dependent

0 W

Application

Switchgear for residential and commercial applications

Rated operational voltage (Ue) - max

400 V

Voltage type

AC

Rated insulation voltage (Ui)

440 V



Eaton Corporation plc  
Eaton House  
30 Pembroke Road  
Dublin 4, Ireland  
Eaton.com  
© 2023 Eaton. All rights reserved.

Eaton is a registered trademark.

All other trademarks are property of their respective owners.



[Eaton.com/socialmedia](https://www.eaton.com/socialmedia)