

EMPARRO POWER SUPPLY 1-PHASE,

IN: 100-240VAC OUT: 24-28VDC/20A

Art.No.: 85442

Weight: 1.256

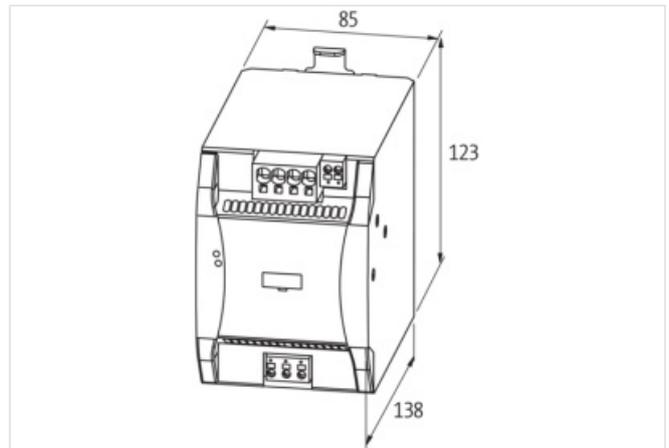
Country of origin: CZ

Model designation: Emparro 20-100-240/24

INPUT: 90...265 V AC/90...250 V DC

OUTPUT: 24...28 V DC

Current: 20 A

[Link to Product](#)**Illustration**

Product may differ from Image

**Header**

Material short text Emparro 20-100-240/24

Commercial dataURL Webshop <https://shop.murrelektronik.com/85442>

GTIN 4048879402910

ECLASS-6.0 27049002

ECLASS-6.1 27049002

ECLASS-7.0 27049002

ECLASS-7.1 27049002

ECLASS-8.0 27049002

ECLASS-8.1 27049002

ECLASS-9.0 27040701

ECLASS-9.1 27040701

ECLASS-10.0.1 27040701

ECLASS-10.1 27040701

ECLASS-11.0 27040701

ECLASS-11.1 27040701

ECLASS-12.0 27040701

ECLASS-13.0 27040701

ECLASS-14.0	27040701
ETIM-5.0	EC002540
ETIM-6.0	EC002540
ETIM-7.0	EC002540
ETIM-8.0	EC002540
customs tariff number	85044095
EAN	4048879402910
Packaging unit	1

Electrical data

Security level	SELV
Parallel connection	yes
Number of devices parallel connection max.	5
Series connection	yes
Number of devices series connection max.	2

Electrical data | Supply

Power frequency	50 ... 60 Hz
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Electrical data | Input

Input voltage AC min.	90 V
Input voltage AC max.	265 V
Nominal input voltage AC	100 V
Input voltage DC min.	90 V
Input voltage DC max.	250 V
Nominal current AC	5.2 A @ 100 V , 2.2 A @ 240 V
Inrush current max.	23 A @ 230 V
Power factor	230 V AC
Efficiency	91.7 % @ 110 V AC 94.1 % @ 230 V AC
Characteristic back-up fuse	Inertia
Fuse protection primary side internal	10 A

Electrical data | Output

Output voltage adjustable	yes
Output voltage DC	24 V
Output voltage DC min.	24 V
Output voltage DC max.	28 V
Output current	20 A
Mains failure bridging min.	30 ms @ 100 V AC
Power Boost	150 %
Duration Power Boost min.	4 s
Spikes (s-s) max.	200 mV
Ripple effective max.	50 mV

Installation | Connection

Connection	Push-In spring clamp terminals
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Device protection | Electrical

Degree of protection (EN IEC 60529)	IP20
Overload protection output	yes
Short-circuit protection output	yes

Mechanical data | Mounting data

Height	123 mm
Width	85 mm
Depth	138 mm
Mounting method	geschnappt
Suitable for mounting type	Mounting rail TH35, (EN 60715)

Environmental characteristics | Climatic

The information in this Product-PDF has been compiled with the utmost care.
Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2025-11-20

Operating temperature min.	-40 °C
Operating temperature max.	60 °C
Derating from	45 °C
Storage temperature min.	-40 °C
Storage temperature max.	80 °C
Relative humidity min. (operation)	5 %
Relative humidity max. (operation)	95 % no condensation

Conformity

Product standard	EN IEC 61010-2-201
EMC	EN 55011 B, EN 61000-3-2
Low Voltage Directive	EN 61204-3

Approvals

SEMI F47	compliant
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Connection type 3

Connection type 1	Alarm
Connection type 2	Input
Connection type 3	Output
Family construction form	terminal
No. of poles	2
Gender	female
Color contact carrier	green
Connection	Spring clamp terminals FK
PIN 1	13
PIN 2	14
Family construction form	terminal
No. of poles	3
Gender	female
Color contact carrier	green
Connection	Spring clamp terminals FK
PIN 1	PE
PIN 2	N
PIN 3	L
Family construction form	terminal
No. of poles	4
Gender	female
Color contact carrier	green
Connection	Spring clamp terminals FK
PIN 1	-
PIN 2	-
PIN 3	+
PIN 4	+