EMPARRO® 3~

Two-/three-phase, primary switched

- short circuit and overload protected (Current limiter)
- Power Boost 150 %
- Parallel connection







Emparro

120 W





Emparro



Emparro

960 W

| Listed 0 2 1103 Minute combi | | | | | | | |
|------------------------------|---|------------------|---------------------|-----------------------|-----------------|--------------------|----------|
| Ordering data | Current Art. N | o. Current | Art. No. | Current | Art. No. | Current | Art. No. |
| 24 V DC | 5 A 856 | 90 10 A | 85691 | 20 A | 85692 | 40 A | 85693 |
| Input | | | | | | | |
| Input voltage | 3x324 V AC572 V AC/ 450 V DC745 V DC | | | | | | |
| Inrush current after 1 ms | <14 A | | | | | | |
| Output | | | | | | | |
| Output voltage | adjustable 2428V DC | | | | | | |
| Power Boost | 150 % for 5 seconds | | | | | | |
| Efficiency | up to 95% | | | | | | |
| Protection | short-circuit and overload protected (output), Current limiter | | | | | | |
| General data | | | | | | | |
| MTBF | > 1.000.000 h | | > 950.000 h > 775.0 | | > 775.000 h | | |
| Mains failure bridging | > 25 ms at 400 V AC | | | > 20 ms | | | |
| Status display | LED green/red | | | | | | |
| Standards | EN 60950-1, EN 61204-3, EN 55011 B, EN 61000-3-2 | | | | | | |
| Temperature range | -40+60 °C/6070 °C Derating (start up -40 °C/storage temperature -40 +85 °C) | | | | | | |
| Mounting method | DIN-rail mounting TH35 (EN 60715), with screw mounting plate | | | | | | |
| Other | Relay alarm contact for short-circuit, overload and over-temperature add. alarm | | | add. alarm contact pr | ev. diagnostics | | |
| Approvals | UL listed, UL recognized and DNV-GL | | | | | | |
| Dimensions (H x W x D) | 50 x 143 x 143 mm | 65 x 143 x 143 r | mm | 65 x 143 x 167 mm | | 109 x 138 x 182 mn | 1 |
| Shock acc. to IEC 60068-2-27 | 50 g | | | 30 g* | | 30 g* | |

^{*} up to 50 g with screw mounting plate

FOR INCREASED REQUIREMENTS

For tough requirements like vibrations and shock resistance Emparro® can not only be mounted on DIN rail, it can also be fastened with screws. Versions with coated circuit boards offer better protection against temperature fluctuation, as well as dust and dirt.





found in our online shop.

Emparro® 3~ 24 V

| • | | | | |
|------|-------------------|----------------|------------|--|
| | DIN rail mounting | screw mounting | coated PCB | |
| 5 A | 85690 | 85695 | 87690 | |
| 10 A | 85691 | 85696 | 87691 | |
| 20 A | 85692 | 85697 | 87692 | |
| 40 A | 85693 | 85698 | 87693 | |

COMPACT



EMPARRO® 3~

PREMIUM POWER

The newly developed Emparro family 3-phase power supplies for 24V applications are important components in quality power management systems. They are extremely reliable, extraordinarily efficient and they don't require much space in the cabinet.



- MTBF of 1,000,000 hours
- Integrated gas discharge valve protects from interference pulses
- Up to 95 % efficiency rating

Optimum performance

- Permanently overload protected up to 20 %
- Power and hyper boost functions for starting high loads
- Space saving



PRACTICAL FEATURES

- Continuous 2-phase operation
- Parallel operation (Connect up to five units to each other)
- Alarm contact & LED
- Derating from 60 °C



PUSH-IN TERMINALS

The vibration resistant push-in terminals make installation tool free so connection maintenance becomes a thing of the past.









COMPACT

MURR ELEKTRONIK stay connected

Power Supplies for Maximum RELIABILITY

Reliable power supplies are an essential component to ensure maximum availability of machines and systems. Therefore, reliability was a high priority during development of these new 3-phase units.



Power Supplies for OPTIMUM PERFORMANCE

Emparro 3-phase power supply units have a special feature: integrated reserve power.



MTBF OF UP TO 1,000,000 HOURS

Achieving this MTBF is possible because of our highquality components, the modern and slim circuit board design and the processor-controlled electronics.



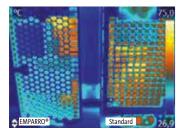
INTEGRATED GAS DISCHARGE VALVE PROTECTS FROM INTERFERENCE PULSES

An integrated gas discharge valve protects the power supply from interfering pulses up to 6 kV. Therefore, overvoltage coming from the mains, EMC interference (as caused by frequency converters) or contact bounces cannot cause any damage.



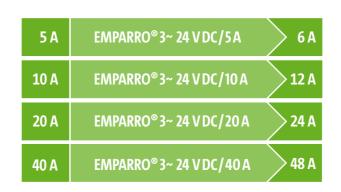
PREVENTIVE DIAGNOSTICS - JUST IN TIME...

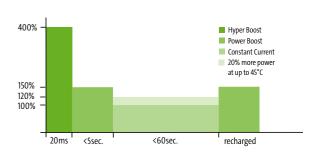
Emparro 3~ 40 A continuously monitors parameters like temperature, load or number of starts. The unit generates a message when it's time to be replaced. Replacement can be scheduled for the next service interval. This reduces downtime.



EFFICIENCY – **HIGHLY EFFICIENT**

Emparro 3-phase has such a long life span because of its efficiency rating of up to 95%. The resulting power loss is very low which exposes the components to less thermal stress.





20% MORE POWER!

Emparro 3-phase power supply units can be operated with up to 20 % overload in ambient temperatures of up to 45°C. The 5 A models continuously supply 6 A, 10 A models 12 A, 20 A models 24 A and 40 A models 48 A.

HYPER AND POWER BOOST

Emparro 3-phase features 2 different boost functions: power boost and hyper boost. The Power Boost supplies 150% more current for up to 5 seconds while the Hyper Boost provides up to 400% more power for up to 20 ms.

FREE UP VALUABLE CABINET SPACE

Emparro 3-phase power supplies are very compact. The housing for the 20 A model is only 65 mm wide. This saves a lot of space in the cabinet.

SPACE SAVINGS OF UP TO 56%.

