COMPACT



EMPARRO® 3~

PREMIUM POWER

Murrelektronik's Emparro family has a new member. The newly developed Emparro 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.

Emparro power supplies are UL listed and UR recognized.







COMPACT

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.





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.



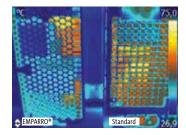
INTEGRATED GAS DISCHARGE VALVE PROTECTS FROM INTERFERENCE PULSES

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.

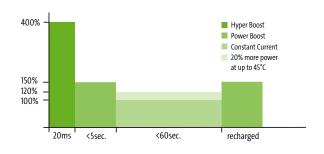




Power Supplies for OPTIMUM PERFORMANCE

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

5 A	EMPARRO® 3~ 24 V DC/5 A	6 A
10 A	EMPARRO® 3~ 24 V DC/10 A	12 A
20 A	EMPARRO® 3~ 24 V DC/20 A	24 A
40 A	EMPARRO® 3~ 24 V DC/40 A	48 A



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 50% more power 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%.



COMPACT

EMPARRO® 3~

Two-/three-phase, primary switched

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









Emparro



Emparro



Emparro



Emparro

960 W

Listed CTLAUS							2000		
Ordering data	Current	Art. No.	Current	Art. No.	Current	Art. No.	Current	Art. No.	
24 V DC	5 A	85690	10 A	85691	20 A	85692	40 A	85693	
Input									
Input voltage	3x324 V AC572 \	3x324 V AC572 V AC/ 450 V DC745 V DC							
Inrush current after 1 ms	< 14 A	<14A							
Output									
Output voltage	adjustable 2428\	adjustable 2428V DC							
Power Boost	150 % for 5 second	150 % for 5 seconds							
Efficiency	up to 95 %	up to 95%							
Protection	short-circuit and o	short-circuit and overload protected (output), Current limiter							
General data									
MTBF	> 1.000.000 h				> 950.000 h		> 775.000 h		
Mains failure bridging	> 25 ms at 400 V A	> 25 ms at 400 V AC			> 20 ms				
Status display	LED green/red	LED green/red							
Standards	EN 60950-1, EN 612	EN 60950-1, EN 61204-3, EN 55011 B, EN 61000-3-2							
Temperature range	-25+60 °C/6070	-25+60 °C/6070 °C Derating (start up -40 °C/storage temperature -40 +85 °C)							
Mounting method	DIN-rail mounting	DIN-rail mounting TH35 (EN 60715), with screw mounting plate							
Other	Relay alarm contac	Relay alarm contact for short-circuit, overload and over-temperature				add. alarm contact prev. diagnostics			
Approvals	UL listed, UL recog	UL listed, UL recognized and GL in preparation							
Dimensions (H x W x D)	50 x 143 x 143 mr	n	65 x 143 x 143	mm	65 x 143 x 167 mm		109 x 138 x 182	mm	
Shock acc. to IEC 60068-2-27	50 g	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.





¥ Emparro® 3~ Further information can be 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				