MURR ELEKTRONIK
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Power Supply Emparro20-Advanced-3-phase

IN: 3x400 - 500VAC; OUT: 11,4 - 15V/10ADC

The Emparro20-Advanced series of three-phase DIN rail power supplies are extremely versatile and are suitable for a wide range of applications where reliable DC power is required. The high efficiency of these power supplies allows you to save on energy costs while reducing your carbon footprint. Thanks to the low heat dissipation, the service life of the power supplies is extended and the cooling requirements of your control cabinet are reduced. The switching power supply also offers a 5-second power boost, which allows the operation of capacitive and inductive loads. With a very low inrush current, the input circuit breaker is prevented from tripping. The push-in terminal technology ensures quick and easy installation of the power supply unit. The powerful overvoltage protection effectively protects the power supplies from short-term voltage spikes, which extends the service life of the power supplies and increases machine availability.

Link to Product

Illustration

Product may differ from Image

Commercial data

ECLASS-6.0	27049002
ECLASS-6.1	27049002
ECLASS-7.0	27049002
ECLASS-8.0	27049002
ECLASS-9.0	27040701
ECLASS-10.1	27040701
ECLASS-11.1	27040701
ECLASS-12.0	27040701
ETIM-5.0	EC002540
customs tariff number	85044083
GTIN	4065909055496
Packaging unit	1

Electrical data

Number of devices parallel connection max.	3
Number of devices series connection max.	20
Parallel connection	yes
Series connection	yes

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Security level	SELV/PELV
Electrical data | Supply	
Power frequency	50/60 Hz
Electrical data | Input	
Input voltage 1 AC	400 V
Input voltage 2 AC	500 V
Input voltage AC min.	350 V
Input voltage AC max.	575 V
Input current at input voltage 1 AC	0,36 A
Input current at input voltage 2 AC	0,31 A
Phase number input	3
Efficiency	89,4 % @ 400 V AC, 89,1 % @ 500 V AC
Electrical data | Output	
Output rating	120 W
Output voltage DC	12 V
Output voltage DC min.	11,4 V
Output voltage DC max.	15 V
Output current min.	8 A
Output current max.	10,5 A
Duration Power Boost min.	5 s
Mains failure bridging min.	20 ms @ 400 V AC
Mains failure bridging max.	40 ms @ 500 V AC
Power Boost	145 %
Ripple (s-s) max.	10 mV
Spikes (s-s) max.	20 mV
Diagnostics	
Alarm contact	yes
Installation | Connection	
Connection	Push-In spring clamp terminals
Device protection | Electrical	
Installation height max. ASL	3000 m
Degree of protection (EN IEC 60529)	IP20
Protection class (EN IEC 61140)	I
Overload protection output	yes
Pollution Degree	2
Short-circuit protection output	yes
Overtemperature protection output	yes
Device protection | Mechanical	
Cooling type	Natural convection
Mechanical data | Material data	
Combustibility class housing (UL94)	V-0
Conformal coated PCB	no
Material housing	Aluminium
Mechanical data | Mounting data	
Net weight	660 g
Mounting method	geschnappt
mounting position	horizontal, vertical
Height	129 mm
Width	55 mm
Depth	138,2 mm
Environmental characteristics | Climatic	

Ambient temperature min.	-25 °C
Ambient temperature max.	70 °C
Storage temperature min.	-40 °C
Storage temperature max.	85 °C
Relative humidity max. (operation)	95 %
Environmental product conformity	
REACH	(EC) No 1907/2006
REACH-SVHC	compliant
RoHS	2011/65/EU
China RoHS	compliant | EPUP 25
WEEE	compliant
Halogen-free-Material	JEDEC JS709A
Pb-free-Material	JESD97
Conformity	
CE	2014/30/EU
Approvals	
UL	E200364
ULc	E200364
SEMI F47	compliant
Connection type 3	
Connection type 1	Alarm
Connection type 2	Input
Connection type 3	Output
Connection	Spring clamp terminals FK
Family construction form	terminal
Gender	female
Color contact carrier	green
No. of poles	4
PIN 1	13 Alarm 3.1
PIN 2	14 Alarm 3.2
PIN 3	Inhibit + 3.3
PIN 4	Inhibit - 3.4
Connection	Spring clamp terminals FK
Family construction form	terminal
Gender	female
Color contact carrier	green
No. of poles	4
PIN 1	L 1 1.1
PIN 2	L 2 1.2
PIN 3	L 3 1.3
PIN 4	PE 1.4
Connection	Spring clamp terminals FK
Family construction form	terminal
Gender	female
Color contact carrier	green
No. of poles	4
PIN 1	2.1
PIN 2	2.2
PIN 3	2.3
PIN 4	2.4