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VERO
BICC ELECTRONICS

MONOVOLT PK 60

Primär getaktet, *primary pulsed*, à découpage sur le primaire
AC/DC 5 V/12 A, 12 V/5 A, 15 V/4 A, 24 V/2,5 A

Eingangsgrößen/*Input data*/Caractéristiques d'entrée

Eingangswechselspannung/Frequenz: *Input voltage/Frequency:* Tension nominale/Fréquence:	Umschaltbar *Switchable* 110 V AC/220–240 V AC $^{+10\%}_{-15\%}$ 47–400 Hz Commutable			
Wirkungsgrad (bei Vollast): *Efficiency (under full load):* Rondement (en charge):	≧75%	≧75%	≧75%	≧80%
Ausgangsgrößen/*Output data*/Caracteristiques de sortie	V_1	V_1	V_1	V_1
Ausgangsgleichspannung, einstellbar: *D.C. Output voltage adjustable:* Tension nominale de sortie, ajustable:	**5V±0,5V**	**12V±1V**	**15V±1V**	**24V±2V**
Ausgangsgleichstrom: *D.C. Output current:* Courant de sortie:	12 A	5 A	4 A	2,5 A
Ripple (bei Vollast): *Ripple (at full load):* Ondulation:	≦40 mV_{SS}	≦40 mV_{SS}	≦40 mV_{SS}	≦40 mV_{SS}

Regelgrößen/*Regulation data*/Régulation

Netzregelung (V_{IN} $^{+10\%}_{-15\%}$, 100% I_{OUT}): *Mains regulation:* Entreé:	≦0,3%	≦0,2%	≦0,2%	≦0,2%
Lastregelung (10...90% I_{OUT}, statisch): *Load regulation:* En charge:	≦0,2%	≦0,2%	≦0,2%	≦0,2%
Regelzeit (10...90% I_{OUT}): *Regulation time:* Temps de réponse:	0,8 ms	0,5 ms	0,5 ms	0,5 ms
Spannungsausregelung mit Sense-Leitungen: *Voltage stabilisation with sense wires:* Régulation de sortie avec Sensor:	0,5 V	0,5 V	0,5 V	0,5 V

Schutz- und Kontrolleinrichtungen/*Protective control devices*/Protection et contrôle

Begrenzung Ausgangsstrom: *Output current limitation:* Limitation de courant de sortie:	>12,5 A	>5,3 A	>4,3 A	>2,7 A
Begrenzung Ausgangsspannung (OVP): *Over voltage protection (OVP):* Limitation tension de sortie (OVP):	5,5–6,0 V	13,2–15 V	16,5–18 V	26,4–30 V
Begrenzung Einschaltstrom: *Input surge current limitation:* Protection contre les courants de crête:	ja/*yes*/oui	ja/*yes*/oui	ja/*yes*/oui	ja/*yes*/oui
Begrenzung Eingangsspannung: *Input voltage limitation:* Protection contre les tensions de crête:	ja/*yes*/oui	ja/*yes*/oui	ja/*yes*/oui	ja/*yes*/oui
Netzausfallüberbrückung (220 V AC, 100% I_{OUT}): *Hold up time:* Temps de maintien:	≧20 ms	≧20 ms	≧20 ms	≧20 ms
Powerfail-Signal (bei Vollast): *Power fail signal (at full load):* Signal powerfail (en charge):	≧ 6 ms bevor *prior* avant que V_{OUT} = 4,8 V	= 11,5 V	= 14,4 V	= 23 V

Sicherheit/*Safety*/Sécurité

Isolationsspannungsfestigkeit nach VDE 0804: *Dielectric strength to VDE 0804:* Isolation renforcée – norme VDE 0804:	Primär/*Primary*/Primaire	– Sekundär/*Secondary*/Secondaire	2,5 kV_{eff}
	Primär/*Primary*/Primaire	– Erde/*Earth*/Terre	1,5 kV_{eff}
	Sekundär/*Secondary*/Secondaire	– Erde/*Earth*/Terre	0,5 kV_{eff}
Schutzklasse I nach VDE 0100: *Class of Protection I to VDE 0100:* Protection normes VDE 0100:	Steckverbinder mit voreilendem Kontakt *Male connector with projecting earth contact* Connecteur avec pin de masse prioritaire		

Funkentstörung/*Interference suppression*/Protection aux paratitos

Funkentstört nach VDE 0871, Kurve B: *Suppressed to VDE 0871 curve B:* Protection aux normes VDE 0871, Courbe B:	10 kHz–30 MHz

Betriebsgrößen/*Operational data*/Caractéristiques de fonctionnement

Max. Umgebungstemperatur: *Maximum ambient temp.:* Température ambiante maxi:	(siehe Derating-Kurve) 70°C *(see derating curve)* (vuie muto de vadallon)
Leistungsderating nach Diagramm: *Output derating to diagramm:* Maintien de la puissance nominale:	1,6 W/K ab 45°C / *1,6 W/K above 45°C* / 1,6 W/K à partier de 45°C
Lagertemperatur: *Storage temp.:* Température de stockage:	–25°... +85°C

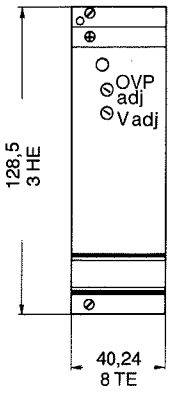
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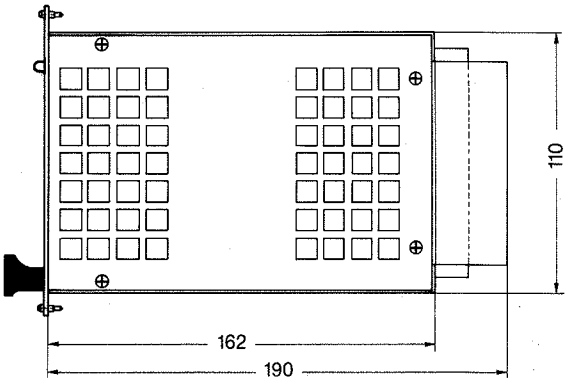
VERO BICC ELECTRONICS

MONOVOLT PK 60

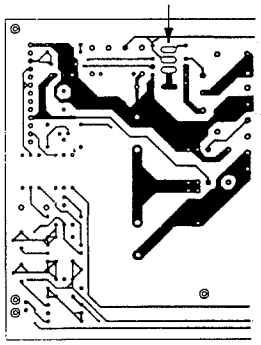
Primär getaktet, *primary pulsed,* à découpage sur le primaire
AC/DC 5 V/12 A, 12 V/5 A, 15 V/4 A, 24 V/2,5 A

OVP_{adj}	Einstellung Begrenzung Ausgangsspannung (OVP) *Over voltage protection (OVP)* Limitation tension de sortie (OVP)
V_{adj}	Ausgangsspannung einstellbar *Output voltage adjustable* Tension de sortie ajustable

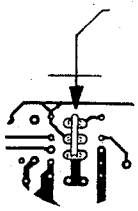




Umschalt-Lötpads
Select Solder-pads
Selecteur de Tension



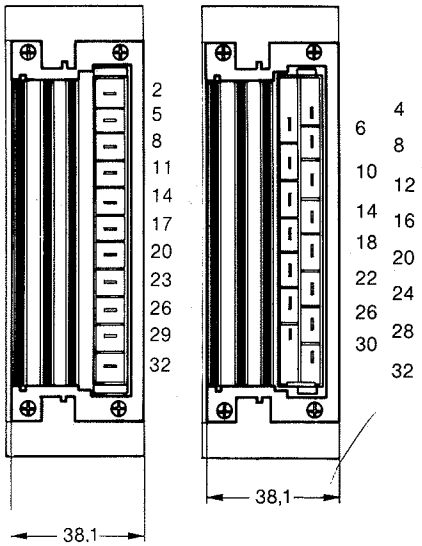
Für 110 VAC Brücke einlöten
For 110 VAC Jumper sold
Pour 110 VAC Strap soudé



Kupferdraht/wire min. 0,5 mm Ø
Soudé 1 fil de diamètre 0,5 mm minimum

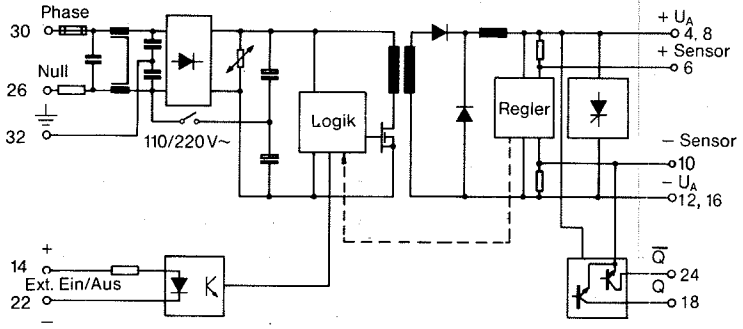
Kontaktbelegung/ *Contact allocation*/connexjons	H 11	H 15	
+ U_{A1} + *Output,* + Sortie	2	4,8	*
+ Sensor	5	6	*
– Sensor	8	10	*
– U_{A1}, –*Output,* – Sortie	11	12, 16	*
Ext. Ein/Aus +, *Ext. on/off* +, Marche/Arrêt +	14	14	
Ext. Ein/Aus –, *Ext. on/off* –, Marche/Arrêt –	20	22	
Powerfail-Signal Q	17	18	
Powerfail-Signal $\overline{Q}$	23	24	
Null/*Neutral*/Neutre, 110/220 V ~	26	26	
Phase 110/220 V ~	29	30	
⏚ Schutzleiter	32	32	

* Sensor muß angeschlossen sein
* *Sense lines must be connected*
* Les lignes du sensor doivent être connectées

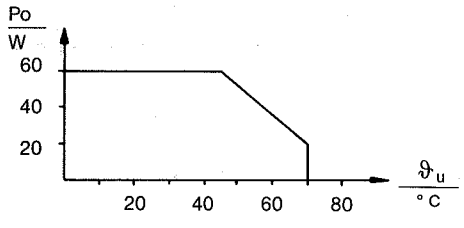


Prinzipschaltbild/*Schematic circuit diagramm*/Schéma de principe

mit Steckverbinder Bauform H 15
with H 15 connector
avec connecteur type H 15



Derating-Kurve/*Derating curve*/Courbe de variation



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