

Technical data sheet

Power supply · 240 W

Primary switchmode power supply, PFC, Single-phase

Input: AC 90–132 V, AC 180–264 V, DC 210–375 V

Output: DC 24 V, 10 A



Identification

Type DRA240-24B
Part No. [722759](#)

Product version

Datasheet version 02

Input

Number of phases	1
Rated voltage U_N	AC 115/230 V
Operation voltage range	AC 90–132 V / AC 180–264 V / DC 210–375 V
Frequency range	47 Hz – 63 Hz
Rated current I_N	4.0 A @ AC 115 V / 1.55 A @ AC 230 V
Inrush current	30 A @ AC 115 V / 60 A @ AC 230 V
Internal fuse	T6, 3 A/AC 250 V
External protection	Mini-circuit breaker: B 10 A, C 6 A
Power factor correction P.F.C.	0.7

Output

Output voltage/current	DC 24 V/10 A
Rated voltage U_N	DC 24 V
Rated current I_N	10 A
Power Dissipation	35 W @ AC 230 V
Setting range $U_{out \min.}/U_{out \max.}$	22.5–28.5 V
Accuracy	±1 %
Load regulation	Single ±1 %, Parallel ±5 %

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Line regulation	±0.5 %
Rise time	1 s
Temperature coefficient	±0.03 % / °C
Ripple and noise	100 mV
Hold up time	25 ms @ 115 V / 30 ms @ 230 V
Parallel / redundant mode	Max. 3 units at 90% load current, manual switch S/P
Efficiency	89 %
Over voltage protection	120–145 %
Rated over load protection	105–145 %
Short circuit	Current limit

Status indication

Status indication DC ON LED green	≥17.6–19.4 V
Status indication DC LOW LED red	≤17.6–19.4 V

Monitoring

DC ON Control (Rdy)	N/O contact
Switching voltage	DC 60 V
Switching current	Max. 300 mA
Isolation voltage	DC 500 V

General

Switching frequency	Approx. 40 kHz
Insulation voltage input / output	DC 4.2 kV
Insulation voltage input / ground	DC 2.1 kV
Insulation voltage output / ground	DC 700 V
Insulation resistance at DC 500 V	100 MΩ
Derating	Capacity: -2.5 %/°C starting at +61 °C
Cooling	Air convection, 25 mm clearance all-round
Housing material	Metal
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	5000 m (EN 62368-1)
Installation position	Vertical
MTBF	423000 h
Degree of protection	IP20
Protection class	I
Weight/unit	1.38 kg
Connection type	Pluggable screw terminal 0.20 mm ² – 2.5 mm ² AWG 24 – AWG 12
Dimensions (w × h × d)	83.5 mm × 143.5 mm × 116.6 mm
PU (units)	1

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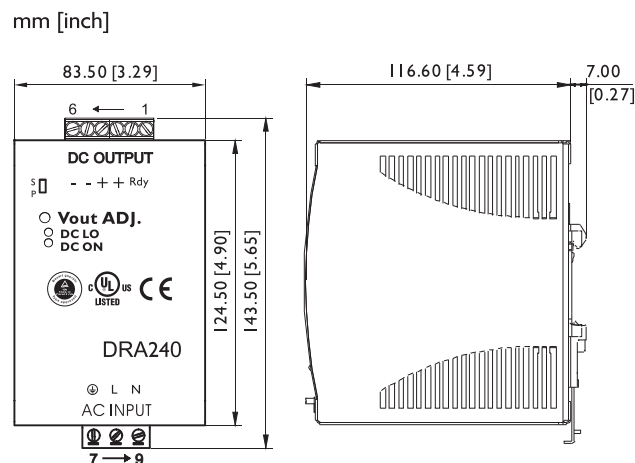
General ambient conditions

Operation temperature range	-40 °C ... +71 °C (Derating)
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	20 – 90 % RH, not condensing

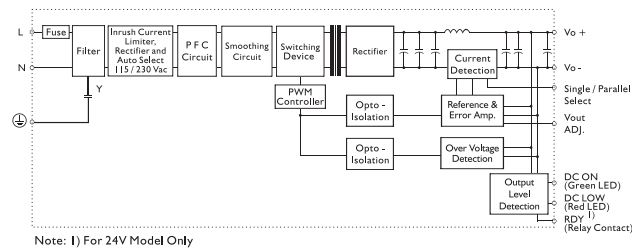
Certifications/Standards

Certifications	UL 508 Listed (E249179) UL 60950-1, (Class 1, Division 2, Groups A, B, C and D) (E350538) CE UKCA
Standards	IEC/EN 62368-1 EN 61558-1 EN 61558-2-16 EN 61000-6-3 EN 55032 Class B EN 61000-3-2 Class D EN 61000-3-3 EN 61000-6-2 EN 55024 EN 61000-4-2 Level 4 EN 61000-4-3 Level 3 EN 61000-4-4 Level 4 EN 61000-4-5 L-N Level 3 L/N-FG Level 4 EN 61000-4-6 Level 3 EN 61000-4-8 Level 4 EN 61000-4-11 ENV 50204 Level 2 EN 61204-3

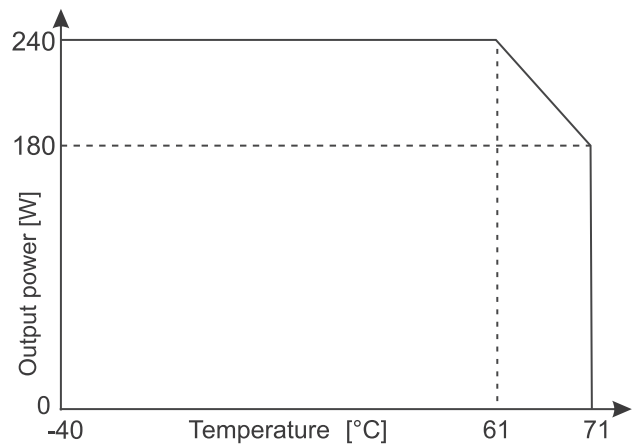
Dimensions



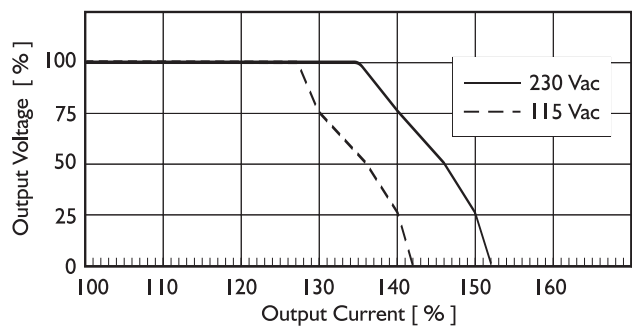
PIN assignment



Derating



Short circuit characteristics



Efficiency

