MICROIDEA®

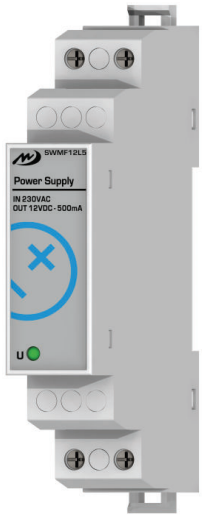
PRODUCT CATALOGUE

2018



SW SWMF...05L5/12L5/24L2 Switching Power Supply

- COMPACT SIZE - 1 MODULE - 17.5mm
- SCREW CONNECTORS
- REAL DECLARED VALUES
- DIN RAIL MOUNTING EN50.022
- SELF-EXTINGUISHED MATERIAL UL94 V0



RoHS 2 COMPLIANT

CE

EU Directives - CE Marking:

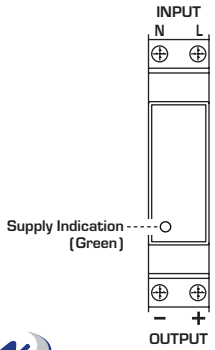
> 2014/30/UE - EMC
> 2014/35/UE - LVD

TECHNICAL DATA

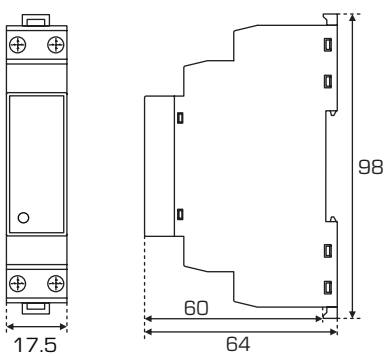
	UNIT	SWMF05L5	SWMF12L5	SWMF24L2
INPUT				
Supply voltage AC ±10%	V~	230		
Nominal Frequency	Hz	50 - 60 (range: 47 - 63)		
Power consumption (max. AC)	VA	12	18	15
In-rush current at rated V~ [1]	A	< 30		
Input overload protection	-	(internal)		
Input overvoltage protection (max. AC)	%	110		
OUTPUT				
Output voltage DC ±2%	V⎓	5	12	24
Max. continuos output current	A	0.5	0.5	0.2
Max. continuos output power	W	3	6.5	5
Mains/Load fluctuation control	%	± 3		
Ripple BW 20MHz at max. load	mV	< 150		
Hold-up time at rated V~ and max. load [2]	ms	> 40		
Rise time at rated V~ [2]	ms	5		
Parallel connection	-	NO		
Output overvoltage protection min. % of Vout	%	120		
Output overload protection % of max. load [3]	%	110% with Hiccup		
GENERAL				
Efficiency at rated V~	%	75		
Working temperature - free convection	°C	-20 / +60		
De-rating 3.4% In/°C [4]	°C	> 45		
Storage temperature	°C	-30 / +70		
Electrical Insulation	kV	3		
Overvoltage Category	-	II		
Protection degree	IP	20		
Pollution degree	-	2		
Relative Humidity w/o cond.	RH%	90		
MTBF (MIL STD 217D at 35°C)	h	20 000		
Altitude up to	m	2000		
Weight	g	60		
Dimensions	mm	98 x 17.5 x 64		

[1] See Curve 3 - 4 in User Manual
[2] See Curve 5 in User Manual
[3] See Curve 2 in User Manual
[4] See Curve 1 in User Manual

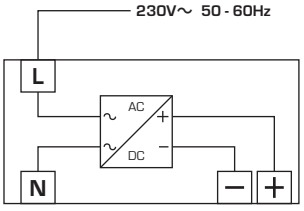
DESCRIPTION



DIMENSIONS (mm)



WIRING DIAGRAM



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SW SWMF...1202/2401 Switching Power Supply

- SIZE 4 MODULES - 70mm
- SCREW CONNECTORS
- REAL DECLARED VALUES
- DIN RAIL MOUNTING EN50.022
- SELF-EXTINGUISHED MATERIAL UL94 V0



RoHS 2 COMPLIANT

CE

EU Directives - CE Marking:

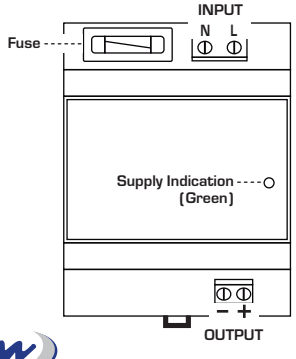
> 2014/30/UE - EMC
> 2014/35/UE - LVD

TECHNICAL DATA

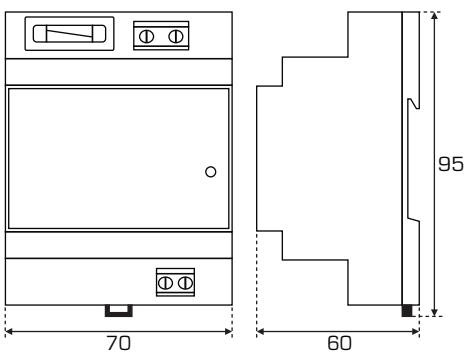
	UNIT	SWMF1202	SWMF2401
INPUT			
Supply voltage DC	V⎓	200 - 350	
Supply voltage AC ±10%	V~	230	
Nominal Frequency	Hz	50 - 60 (range: 47 - 63)	
Power consumption (max. AC)	VA	80	
In-rush current at rated V~ [1]	A	32	
Input overload protection T-type fuse	A	1	
Input overvoltage protection (max. AC)	%	110	
OUTPUT			
Output voltage DC ±2%	V⎓	12	24
Max. continuos output current	A	2	1
Max. continuos output power	W	30	
Mains/Load fluctuation control	%	± 1	
Ripple BW 20MHz at max. load	mV	< 200	< 80
Hold-up time at rated V~ and max. load [2]	ms	100	
Rise time at rated V~ [2]	ms	100	
Parallel connection [3]	-	Allowed	
Output overvoltage protection min. % of Vout	%	120	
Output overload protection % of max. load [4]	%	110% with Hiccup	
GENERAL			
Efficiency at rated V~	%	75	
Working temperature - free convection	°C	-20 / +60	
De-rating 3.4% In/°C [5]	°C	> 45	
Storage temperature	°C	-30 / +70	
Electrical Insulation	kV	3	
Overvoltage Category	-	II	
Protection degree	IP	20	
Pollution degree	-	2	
Relative Humidity w/o cond.	RH%	90	
MTBF (MIL STD 217D at 35°C)	h	20 000	
Altitude up to	m	2000	
Weight	g	60	
Dimensions	mm	95 x 70 x 60	

[1] See Curve 3 - 4 in User Manual
[2] See Curve 5 in User Manual
[3] See Connecting in parallel in User Manual
[4] See Curve 2 in User Manual
[5] See Curve 1 in User Manual

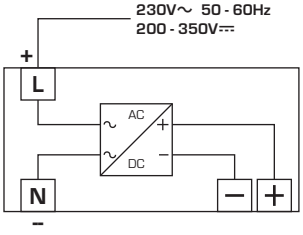
DESCRIPTION



DIMENSIONS (mm)



WIRING DIAGRAM



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SW SWMT2445/E Switching Power Supply

- HIGH EFFICIENCY UP TO 90%
- 150% PEAK LOAD CAPABILITY
- 105°C LONG LIFE CAPACITANCE
- METALLIC BOX PROTECTION IP20
- DIN RAIL MOUNTING EN50.022



■ **PROTECTION:**
- Short circuit
- Overload
- Overvoltage
- Overtemperature (only on standard line)

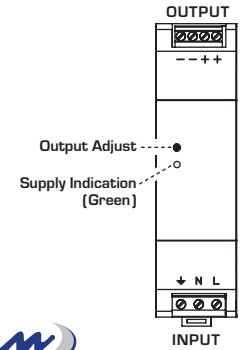
EU Directives - CE Marking:
> 2014/30/UE - EMC
> 2014/35/UE - LVD

TECHNICAL DATA

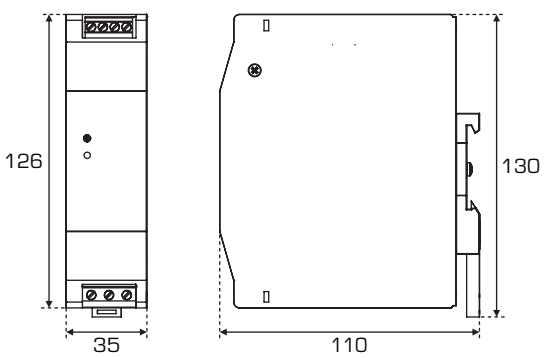
	UNIT	SWMT2445	SWMT2445E
INPUT			
Supply voltage AC	V~	100 - 240	
Nominal frequency	Hz	50 - 60 (range: 47 - 63)	
Supply voltage DC	V⎓	140 - 340	
Input current at 230VAC	A	0.4	0.6
In-rush current at 230VAC	A	15	35
Input overload protection T-type fuse (internal)	A	2	
Power Factor at 230VAC	-	0.5	
OUTPUT			
Output adjustable voltage DC	V⎓	24 - 28 (±2%)	
Max. continuos output current	A	2	
Max. continuos output power	W	45	
Ripple BW 20MHz at max. load	mV	120	100
Hold-up time at rated V~ and max. load	ms	20	
Rise time at rated V~	ms	200	200
Parallel connection	-	NO	
Output overvoltage protection min. % of Vout	%	120 - 135	120 - 150
Output overload protection % of max. load	%	110 - 150	
Power good relay	%	NO	
GENERAL			
Efficiency at rated V~	%	88.5	88
Working temperature - free convection	°C	-25 / +70	-20 / +60
De-rating 2.5% In/°C	°C	> 55	
Storage temperature	°C	-40 / +85	
Electrical Insulation	kV	3 (IN/OUT) 1.5 (IN/⏚)	0.5 (OUT/⏚)
Over-temperature protection	-	YES	NO
Protection degree	IP	20	
Relative Humidity w/o cond.	RH%	90	
Altitude up to	m	2000	
Weight	g	310	
Dimensions	mm	130 x 35 x 110	

ECONOMY LINE

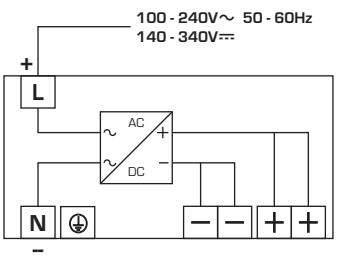
DESCRIPTION



DIMENSIONS (mm)



WIRING DIAGRAM



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SW SWMT2475/E Switching Power Supply

- HIGH EFFICIENCY UP TO 90%
- 150% PEAK LOAD CAPABILITY
- 105°C LONG LIFE CAPACITANCE
- METALLIC BOX PROTECTION IP20
- DIN RAIL MOUNTING EN50.022



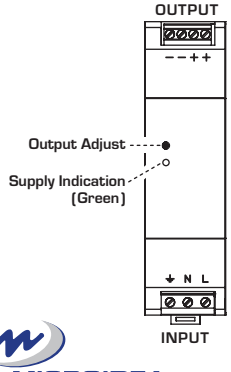
■ **PROTECTION:**
- Short circuit
- Overload
- Overvoltage
- Overtemperature (only on standard line)

EU Directives - CE Marking:
> 2014/30/UE - EMC
> 2014/35/UE - LVD

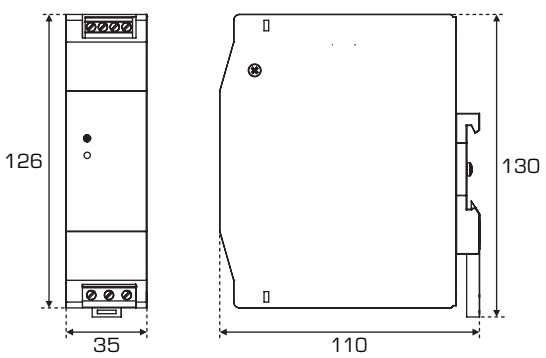
TECHNICAL DATA

	UNIT	SWMT2475	SWMT2475E
INPUT			
Supply voltage AC	V~	100 - 240	
Nominal frequency	Hz	50 - 60 (range: 47 - 63)	
Supply voltage DC	V⎓	140 - 340	
Input current at 230VAC	A	0.97	0.9
In-rush current at 230VAC	A	20	35
Input overload protection T-type fuse (internal)	A	3.15	
Power Factor at 230VAC	-	0.5	
OUTPUT			
Output adjustable voltage DC	V⎓	24 - 28 (±2%)	
Max. continuos output current	A	3	
Max. continuos output power	W	75	
Ripple BW 20MHz at max. load	mV	120	100
Hold-up time at rated V~ and max. load	ms	20	
Rise time at rated V~	ms	200	200
Parallel connection	-	NO	
Output overvoltage protection min. % of Vout	%	120 - 135	120 - 150
Output overload protection % of max. load	%	110 - 150	
Power good relay	%	NO	
GENERAL			
Efficiency at rated V~	%	89.5	88
Working temperature - free convection	°C	-25 / +70	-20 / +60
De-rating 2.5% In/°C	°C	> 55	
Storage temperature	°C	-40 / +85	
Electrical Insulation	kV	3 (IN/OUT) 1.5 (IN/⏚)	0.5 (OUT/⏚)
Over-temperature protection	-	YES	NO
Protection degree	IP	20	
Relative Humidity w/o cond.	RH%	90	
Altitude up to	m	2000	
Weight	g	360	310
Dimensions	mm	130 x 35 x 110	

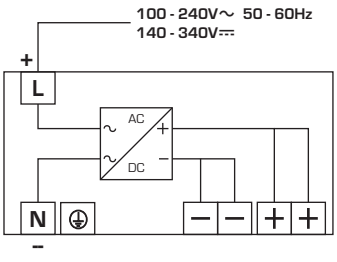
DESCRIPTION



DIMENSIONS (mm)



WIRING DIAGRAM



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SW SWMT24120/E Switching Power Supply

- HIGH EFFICIENCY UP TO 92%
- 150% PEAK LOAD CAPABILITY
- 105°C LONG LIFE CAPACITANCE
- BUILT-IN ACTIVE PFC FUNCTION
- METALLIC BOX PROTECTION IP20
- DIN RAIL MOUNTING EN50.022



■ **PROTECTION:**
- Short circuit
- Overload
- Overvoltage
- Overtemperature (only on standard line)

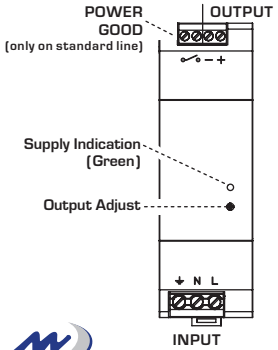
EU Directives - CE Marking:
> 2014/30/UE - EMC
> 2014/35/UE - LVD

TECHNICAL DATA

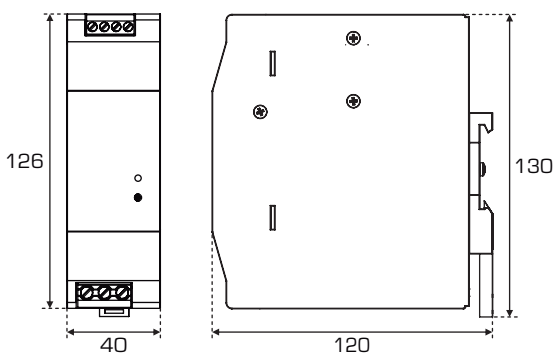
INPUT	UNIT	SWMT24120	SWMT24120E
Supply voltage AC	V~	100 - 240	
Nominal frequency	Hz	50 - 60 (range: 47 - 63)	
Supply voltage DC	V⎓	140 - 340	
Input current at 230VAC	A	0.6	1.4
In-rush current at 230VAC	A	25	35
Input overload protection T-type fuse (internal)	A	5	4
Power Factor at 230VAC	-	0.96	0.5
OUTPUT			
Output adjustable voltage DC	V⎓	24 - 28 (±2%)	
Max. continuos output current	A	5	
Max. continuos output power	W	120	
Ripple BW 20MHz at max. load	mV	80	150
Hold-up time at rated V~ and max. load	ms	20	
Rise time at rated V~	ms	60	60
Parallel connection	-	NO	
Output overvoltage protection min. % of Vout	%	110 - 140	120 - 150
Output overload protection % of max. load	%	110 - 150	
Power good relay	%	YES	NO
GENERAL			
Efficiency at rated V~	%	92	86
Working temperature - free convection	°C	-25 / +70	-20 / +60
De-rating 2.5% In/°C	°C	> 55	
Storage temperature	°C	-40 / +85	
Electrical Insulation	kV	3 (IN/OUT) 1.5 (IN/⏚)	0.5 (OUT/⏚)
Over-temperature protection	-	YES	NO
Protection degree	IP	20	
Relative Humidity w/o cond.	RH%	90	
Altitude up to	m	2000	
Weight	g	540	
Dimensions	mm	130 x 40 x 120	

ECONOMY LINE

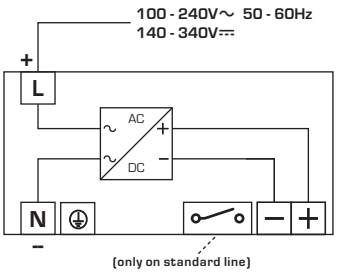
DESCRIPTION



DIMENSIONS (mm)



WIRING DIAGRAM



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SW SWMT24240/E Switching Power Supply

- HIGH EFFICIENCY UP TO 93%
- 150% PEAK LOAD CAPABILITY
- 105°C LONG LIFE CAPACITANCE
- BUILT-IN ACTIVE PFC FUNCTION
- LLC TECHNOLOGY
- METALLIC BOX PROTECTION IP20
- DIN RAIL MOUNTING EN50.022



■ PROTECTION:
- Short circuit
- Overload
- Overvoltage
- Overtemperature

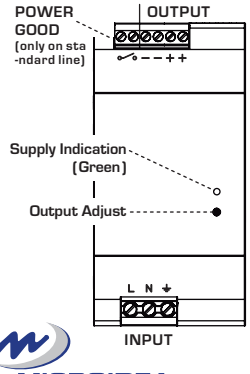
EU Directives - CE Marking:
> 2014/30/UE - EMC
> 2014/35/UE - LVD

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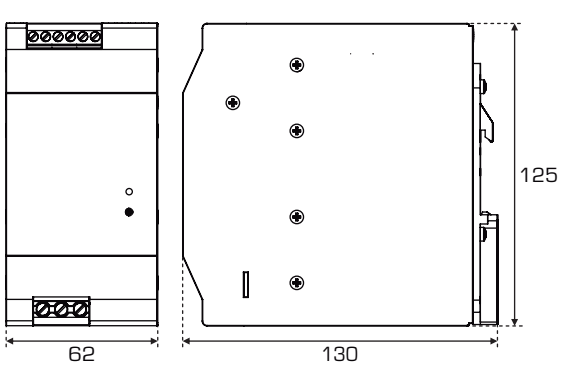
	UNIT	SWMT24240	SWMT24240E
INPUT			
Supply voltage AC	V~	100 - 240	
Nominal frequency	Hz	50 - 60 (range: 47 - 63)	
Supply voltage DC	V⎓	140 - 340	
Input current at 230VAC	A	1.4	1.5
In-rush current at 230VAC	A	30	35
Input overload protection T-type fuse (internal)	A	5	
Power Factor at 230VAC	-	0.92	0.96
OUTPUT			
Output adjustable voltage DC	V⎓	24 - 28 (±2%)	
Max. continuos output current	A	10	
Max. continuos output power	W	240	
Ripple BW 20MHz at max. load	mV	100	120
Hold-up time at rated V~ and max. load	ms	20	
Rise time at rated V~	ms	60	60
Parallel connection	-	NO	
Output overvoltage protection min. % of Vout	%	120 - 150	
Output overload protection % of max. load	%	110 - 150	
Power good relay	%	YES	NO
GENERAL			
Efficiency at rated V~	%	93	91
Working temperature - free convection	°C	-25 / +70	-20 / +50
De-rating 2.5% In/°C	°C	> 60	
Storage temperature	°C	-40 / +85	
Electrical Insulation	kV	3 (IN/OUT) 1.5 (IN/⏚) 0.5 (OUT/⏚)	
Over-temperature protection	-	YES	
Protection degree	IP	20	
Relative Humidity w/o cond.	RH%	90	
Altitude up to	m	2000	
Weight	g	810	
Dimensions	mm	130 x 62 x 125	

ECONOMY LINE

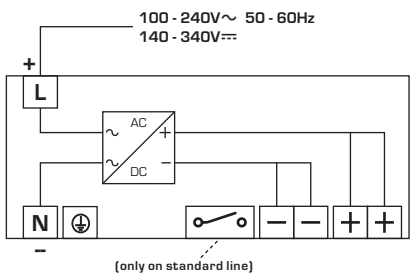
DESCRIPTION



DIMENSIONS (mm)



WIRING DIAGRAM



SW SWMT24480 Switching Power Supply

- HIGH EFFICIENCY UP TO 94%
- 150% PEAK LOAD CAPABILITY
- 105°C LONG LIFE CAPACITANCE
- BUILT-IN ACTIVE PFC FUNCTION
- LLC TECHNOLOGY
- PARALLEL REDUNDANT FUNCTION (1+1)
- METALLIC BOX PROTECTION IP20
- DIN RAIL MOUNTING EN50.022
- PROTECTION:
  - Short circuit
  - Overload
  - Overvoltage
  - Overtemperature



RoHS 2 COMPLIANT

CE

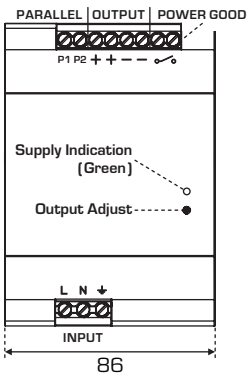
EU Directives - CE Marking:

> 2014/30/UE - EMC
> 2014/35/UE - LVD

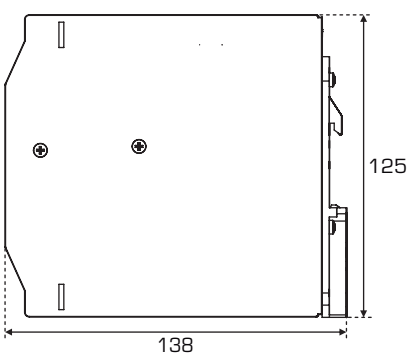
TECHNICAL DATA

	UNIT	SWMT24480
INPUT		
Supply voltage AC	V~	100 - 240
Nominal frequency	Hz	50 - 60 (range: 47 - 63)
Supply voltage DC	V⎓	140 - 340
Input current at 230VAC	A	2.4
In-rush current at 230VAC	A	50
Input overload protection T-type fuse (internal)	A	6.3
Power Factor at 230VAC	-	0.97
OUTPUT		
Output adjustable voltage DC	V⎓	24 - 28 (±2%)
Max. continuos output current	A	20
Max. continuos output power	W	480
Ripple BW 20MHz at max. load	mV	150
Hold-up time at rated V~ and max. load	ms	20
Rise time at rated V~	ms	60
Parallel connection	-	YES
Output overvoltage protection min. % of Vout	%	110 - 140
Output overload protection % of max. load	%	110 - 150
Power good relay	%	YES
GENERAL		
Efficiency at rated V~	%	93
Working temperature - free convection	°C	-25 / +70
De-rating 2.5% In/°C	°C	> 60
Storage temperature	°C	-40 / +85
Electrical Insulation	kV	3 (IN/OUT) 1.5 (IN/⏚) 0.5 (OUT/⏚)
Over-temperature protection	-	YES
Protection degree	IP	20
Relative Humidity w/o cond.	RH%	90
Altitude up to	m	2000
Weight	g	1600
Dimensions	mm	138 x 86 x 125

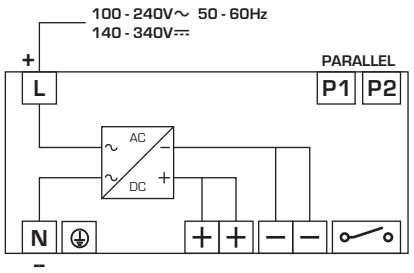
DESCRIPTION



DIMENSIONS (mm)



WIRING DIAGRAM



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SW SWTL2410 3PH Switching Power Supply

- ADJUSTABLE OUTPUT VOLTAGE
- THERMAL PROTECTION
- ELECTRO-MECHANICAL OVERTEMP ALARM
- METALLIC BOX PROTECTION IP20
- SCREW CONNECTORS
- ADVANCED DESIGN
- DIN RAIL MOUNTING EN50.022 OR SCREW



RoHS 2 COMPLIANT

CE

EU Directives - CE Marking:

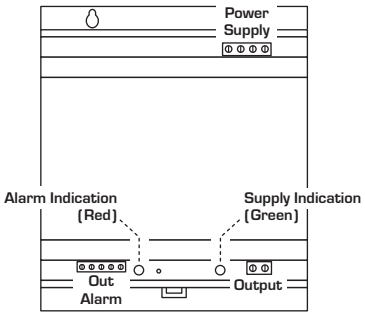
> 2014/30/UE - EMC
> 2014/35/UE - LVD

TECHNICAL DATA

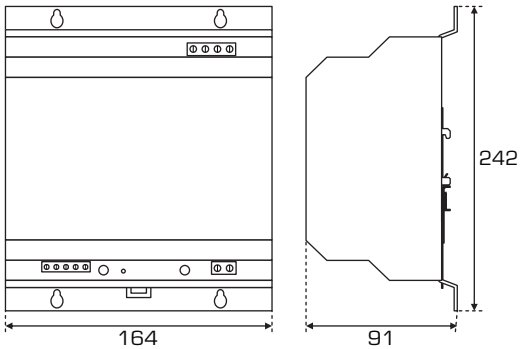
INPUT	UNIT	SWTL2410
Supply voltage AC ±10%	V~	3 x 350 - 500
Nominal Frequency	Hz	50 - 60 (range: 47 - 63)
Power consumption (max. AC)	VA	625
In-rush current at rated V~ [1]	A	50 (Electronic Limitation)
Input overvoltage protection (max. AC)	%	110
OUTPUT		
Output voltage DC adjustable	V⎓	24 (range: 22 - 28)
Max. continuos output current	A	10
Max. continuos output power	W	240
Mains/Load fluctuation control	%	± 1
Ripple BW 20MHz at max. load	mV	< 50
Hold-up time at rated V~ and max. load [2]	ms	90
Rise time at rated V~ [2]	ms	2000
Parallel connection [3]	-	Allowed
Output overvoltage protection min. % of Vout	%	120
Output overload protection % of max. load [4]	%	110% with Hiccup
Red LED overload alarm	V	ON for Vout < 20
Relay overload alarm	V	Excited coil for Vout < 20
Bimetallic trasducer (Thermal protection)	°C	Normally NC - NO > 100
GENERAL		
Efficiency at rated V~	%	> 87
Working temperature - free convection	°C	-20 / +60
Always without de-rating with max. Iout	°C	60
Storage temperature	°C	-30 / +70
Electrical Insulation	kV	3 (IN/OUT) 1.5 (IN/⏚) 0.5 (OUT/⏚)
Overvoltage Category	-	II
Protection degree	IP	20
Pollution degree	-	2
Relative Humidity w/o cond.	RH%	95
MTBF (MIL STD 217D at 35°C)	h	20 000
Altitude up to	m	2000
Weight	g	3560
Dimensions	mm	242 x 164 x 91

[1] See Curve 3 - 4 in User Manual [2] See Curve 5 in User Manual [3] See Connecting in parallel in User Manual [4] See Curve 2 in User Manual

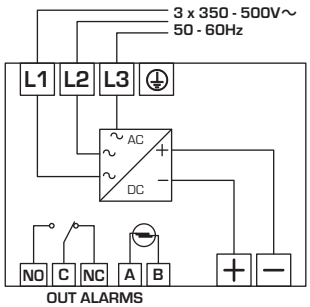
DESCRIPTION



DIMENSIONS (mm)



WIRING DIAGRAM



Microidea reserves the right to bring modifications to this documentation and the products described without some obligation of reporting.