

# Impulse

## NEWS

### RATIONIK®

Customer-focused technology and service. Components designed for ease of installation and use in electrical cabinets, machines and systems.



### AREAS OF APPLICATION

Used in control panels for:

- Machine Tools
- Automation Machines
- Assembly Machines
- Robotics
- Packaging Machines
- Material Handling/ Transfer Machines

### FEATURES

- Single-phase:  
110 & 230VAC  
Output: 24VDC-1.3A, 5A, 10A, 20A
- Three-phase: 480-520VAC  
Output: 24VDC-10A, 20A
- Short-circuit, overload, overtemp, overvoltage protected
  - Slim design, lightweight

## MCS Series

### Primary Switch-Mode Power Supplies



RATIONIK®, our philosophy of customer-focused technology and service, has created a new generation of MCS primary switch-mode power supplies.

IP20 touch protected with an adjustable 24-28VDC output makes this series of power supplies suitable for almost any application. Available in single-phase and three-phase input, Murrelektronik continues to innovate in response to an ever changing market. Compact and light-weight, even the largest MCS power supply, weighing only 5 pounds and just 84mm wide, is DIN rail mountable.

The MCS series of power supplies has 90% efficiency, thereby reducing heat inside the panel and producing less than 20mV output ripple. Currently available in 1.3A, 5A, 10A and 20A single-phase and 10A and 20A three-phase, the MCS power supplies are short-circuit, overload and overtemperature protected. The units auto-restart function allows the user to set the power supply to resume operation automatically after a short is cleared.

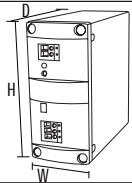
CE, UL508 and cUL certification assures the user that the Murrelektronik MCS primary switch-mode power supplies are tested to the highest standards.



# MCS Series

## Primary Switch-Mode Compact Power Supplies

Single-phase and three-phase power supplies

Ordering data	115/230VAC 1-phase	115VAC 1-phase	230VAC 1-phase										
Output rating													
24VDC/1.3A 31.2W	85432												
24VDC/5A 120W		85084	85083										
<b>Technical data input</b>	<b>115/230VAC</b>	<b>115VAC</b>	<b>230VAC</b>										
Primary voltage	94...264VAC	95...132VAC	185...265VAC										
Primary current	0.5A/0.26A	2.2A	1.1A										
Frequency	50/60Hz												
<b>Technical data output</b>	<b>1.3A</b>	<b>5A</b>											
Secondary voltage	24VDC - 1%/+2%	24...28VDC adjustable to an accuracy of $\pm 1\%$											
Nominal output current	1.3A@60°C	6A@40°C, 5A@60°C											
Efficiency	0.86	0.89											
Auto restart	Auto	User selectable via jumper											
Weight	0.15kg	0.6kg											
Ordering data	115VAC 1-phase	230VAC 1-phase	3X480VAC 3-phase										
Output rating													
24VDC/10A 240W	85086	85085	85090										
24VDC/20A 480W	85088	85087	85091										
<b>Technical data input</b>	<b>115VAC</b>	<b>230VAC</b>	<b>3X480VAC</b>										
Primary voltage	95...132VAC	185...265VAC	395...530VAC										
Primary current	4.2A(85086) 8.4A(85088)	2.1A(85085) 4.2A(85087)	3x0.6A(85090) 3x1.2A(85091)										
Frequency	50/60Hz												
<b>Technical data output</b>													
Secondary voltage	24...28VDC adjustable to an accuracy of $\pm 1\%$												
Nominal output current	(10A) 12A@40°C, 10A@60°C (20A) 24A@40°C, 20A@60°C												
Efficiency	0.90												
Auto restart	User selectable via jumper												
Weight	1.3kg(10A unit), 2.3kg(20A unit)												
<b>General data</b>													
Mains failure bridging	>10ms												
Effective ripple	<20mV												
Protection	Short-circuit, overload, and overtemperature protected												
LED indicator	LED green in operation												
Parallel/series usage	Max. 5 units in parallel, max. 2 units in series for 48VDC or $\pm 24V$ ; (N/A for 85432)												
Mounting method	35mm DIN rail												
Recommended primary fuse	Not greater than 1.5 times nominal current												
Temp. range/relative humidity	0...60°C/30...90% no condensation												
Standards	EN60950, EN50081-1, EN50082-2, EN61000-4-5(surge), EN61000-4-3(Rf.field), UL1950, UL508 & cUL listed												
<b>Dimension drawing</b>	 <table border="1" data-bbox="771 1709 1031 1869"> <thead> <tr> <th></th> <th>WxHxD</th> </tr> </thead> <tbody> <tr> <td>1.3A Unit</td> <td>38 x 76 x 74mm</td> </tr> <tr> <td>5A Unit</td> <td>54 x 117 x 127mm</td> </tr> <tr> <td>10A Unit</td> <td>68 x 127 x 160mm</td> </tr> <tr> <td>20A Unit</td> <td>84 x 170 x 207mm</td> </tr> </tbody> </table>				WxHxD	1.3A Unit	38 x 76 x 74mm	5A Unit	54 x 117 x 127mm	10A Unit	68 x 127 x 160mm	20A Unit	84 x 170 x 207mm
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<b>Notes</b>	In order to guarantee heat dissipation by convection, the unit must be mounted vertically on the back panel												



Status 07/00  
Edition 01/5,000

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