

## | Transformers



| Reliable

| Versatile

| Customized



# MTL

Innovative technology

# TRANSFORMERS

Many applications



Among others:

- Assembly and handling technology
- Robotics
- Packaging technology
- Logistics and materials handling technology
- Woodworking machines
- General mechanical engineering
- Textile industry
- Building services engineering

## INNOVATIVE TECHNOLOGY

Different situations require different voltages. Transformers have to be just as flexible. The Murrelektronik range provides this flexibility. No matter if isolation transformer, control transformer, or safety transformer – we have the right solution for any application. Murrelektronik transformers are reliable and safe.

### ↘ Worldwide application

Murrelektronik transformers meet all national and international standards and they have UL and cUL approvals.

### ↘ Flexible and universal

Multiple windings at the input and output side allow use in many applications and reduce inventory and storage costs.

### ↘ Fast assembly

Right angle foot brackets for screw and DIN-rail mounting reduce assembly effort – thus saving time and money.

### ↘ Customized solutions

In addition to standard products Murrelektronik offers versions that fulfill your special requirements – with the corresponding certifications.

## MTS, MST, MET OR MTL

### THE RIGHT TRANSFORMER FOR ANY APPLICATION

#### MTS

- right angle foot brackets for screw and DIN-rail mounting
- Input 230 V AC, 400 V AC or multi voltage input
- optimum with  $\pm 15$  V primary tapping
- Output 24 V AC, 2 x 115 V AC or 230 V AC
- Power range from 40...250 VA

#### MST

- Key-hole mounting
- Input 230 V AC, 400 V AC or multi voltage input
- Output 24 V AC, 2 x 115 V AC or 230 V AC
- Power range from 320...1,000 VA



40°C

Murrelektronik transformer are available for single phase and two phase applications. We supply control, isolation and safety transformers. Certifications and voltage range are designed for worldwide use.



### MET

- Key-hole mounting up to bis 2,000 VA
- Input 230 V AC or 400 V AC with  $\pm 5\%$  primary tapping
- Output 230 V AC or 24 V AC
- Power range from 500...5,000 VA



### MTL

- Input 230 V AC and 400 V AC with  $\pm 15\%$  primary tapping
- Output 2 x 24 V AC or 2 x 115 V AC
- integrated label plate (up to 320 VA)
- LED display (up to 320 VA)
- integrated bridge system (up to 320 VA)
- Power range from 25...2,500 VA

60°C

## TRANSFORMERS

### Single-phase control, isolation and safety transformers

- acc. to EN 61558
- touch protected acc. to EN 60529 (IP20)
- isolation class T 40/B

Approvals:  

#### MTS

Input voltage 230/400 V AC  
Output voltage 230 V AC



#### MTS

Input voltage 230/400 V AC  
Output voltage 24 V AC SELV

Ordering data		Art.-No.	Art.-No.
Nominal power rating	spring clamp/screw terminals		spring clamp/screw terminals
40 VA		6686346	6686340
63 VA		6686347	6686341
100 VA		6686348	6686342
160 VA		6686349	6686343
250 VA		6686351	6686345
Technical data			
Input voltage	230/400 V AC		
Output voltage	230 V AC		24 V AC SELV

### Single-phase control, isolation and safety transformers

- acc. to EN 61558
- touch protected acc. to EN 60529 (IP20)
- isolation class T 40/B

Approvals:  

#### MTS

Input voltage 230/400 V AC  $\pm$  15 V AC  
Output voltage 230 V AC



#### MTS

Input voltage 230/400 V AC  $\pm$  15 V AC  
Output voltage 24 V AC SELV

Ordering data		Art.-No.	Art.-No.
Nominal power rating	spring clamp/screw terminals		spring clamp/screw terminals
40 VA		6686366	6686360
63 VA		6686367	6686361
100 VA		6686368	6686362
160 VA		6686369	6686363
250 VA		6686371	6686365
Technical data			
Input voltage	230/400 V AC $\pm$ 15 V AC		
Output voltage	230 V AC		24 V AC SELV

**Notes**  
For screw-type terminal connection, the item number changes from 6686... to 86... (i.e. the prefix 66 is dropped).



## TRANSFORMERS

### Single-phase control and isolation transformers

#### Multiple voltage input

– acc. to EN 61558

– touch protected acc. to EN 60529 (IP20)

– isolation class T 40/B

Approvals:  

#### MTS

Input voltage 208...550 V AC  
Output voltage 2 x 115 V AC



#### MST

Input voltage 208...550 V AC  
Output voltage 2 x 115 V AC

Ordering data	Art.-No.	Art.-No.
Nominal power rating	screw terminals	screw terminals
160 VA	<b>86144</b>	
500 VA		<b>86148</b>
800 VA		<b>86150</b>
1000 VA		<b>86151</b>
1600 VA		<b>86152</b>
2000 VA		<b>86153</b>
2500 VA		<b>86154</b>
5000 VA		<b>86157</b>
<b>Technical data</b>		
Input voltage	208/230/380/400/420/440/460/480/500/525/550 V AC	
Output voltage	2 x 115 V AC	

### Single-phase control, isolation and safety transformers

– acc. to EN 61558

– touch protected acc. to EN 60529 (IP20)

– isolation class T 40/B

Approvals:  

#### MST

Input voltage 230/400 V AC  
Output voltage 230 V AC



#### MST

Input voltage 230/400 V AC  
Output voltage 24 V AC SELV

Ordering data	Art.-No.	Art.-No.
Nominal power rating	spring clamp/screw terminals	spring clamp/screw terminals
320 VA	<b>6686306</b>	<b>6686326</b>
400 VA	<b>6686307</b>	<b>6686327</b>
500 VA	<b>6686308</b>	<b>86328</b>
630 VA	<b>6686309</b>	<b>86329</b>
800 VA	<b>6686310</b>	<b>86330</b>
1000 VA	<b>6686311</b>	<b>86331</b>
<b>Technical data</b>		
Input voltage	230/400 V AC	
Output voltage	230 V AC	24 V AC SELV
<b>Notes</b>		
For screw-type terminal connection, the item number changes from 6686... to 86... (i.e. the prefix 66 is dropped).		

## TRANSFORMERS

### Single-phase control and isolation transformers

- acc. to EN 61558
- touch protected acc. to EN 60529 (IP20)
- isolation class T 60/B

Approvals:  

#### MET

Input voltage 230 V AC  $\pm 5\%$   
Output voltage 230 V AC



#### MET

Input voltage 400 V AC  $\pm 5\%$   
Output voltage 230 V AC

#### MET

Input voltage 240/415 V AC  
Output voltage 110/240 V AC

Ordering data	Art.-No.	Art.-No.	Art.-No.
Nominal power rating	spring clamp/screw terminals	spring clamp/screw terminals	spring clamp/screw terminals
500 VA	6686020	6686021	6686025
630 VA	6686030	6686031	6686035
800 VA	6686040	6686041	6686045
1000 VA	6686050	6686051	6686055
1500 VA	6686060	6686061	
Technical data			
Input voltage	230 V AC $\pm 5\%$	400 V AC $\pm 5\%$	240/415 V AC
Output voltage	230 V AC	230 V AC	110/240 V AC

### Single-phase control and isolation transformers

- acc. to EN 61558
- touch protected acc. to EN 60529 (IP20)
- isolation class T 60/B

Approvals:  

#### MET

Input voltage 230 V AC  $\pm 5\%$   
Output voltage 230 V AC



#### MET

Input voltage 400 V AC  $\pm 5\%$   
Output voltage 230 V AC

Ordering data	Art.-No.	Art.-No.
Nominal power rating	spring clamp/screw terminals	spring clamp/screw terminals
2000 VA	6686070	6686071
3000 VA	6686090	6686091
4000 VA	6686110	6686111
5000 VA	6686130	6686131
Technical data		
Input voltage	230 V AC $\pm 5\%$	400 V AC $\pm 5\%$
Output voltage	230 V AC	230 V AC

#### Notes

For screw-type terminal connection, the item number changes from 6686... to 86... (i.e. the prefix 66 is dropped).



## TRANSFORMERS

### Single-phase safety transformers

- acc. to EN 61558
- touch protected acc. to EN 60529 (IP20)
- isolation class T 60/B

Approvals: **CE** **UL** **US** **GL**

### MET

Input voltage 230 V AC  $\pm 5\%$   
Output voltage 24 V AC SELV



### MET

Input voltage 400 V AC  $\pm 5\%$   
Output voltage 24 V AC SELV

Ordering data		Art.-No.	Art.-No.
Nominal power rating			
500 VA		86023	86024
630 VA		86033	86034
800 VA		86043	86044
1000 VA		86053	86054
Technical data			
Input voltage	230 V AC $\pm 5\%$		400 V AC $\pm 5\%$
Output voltage	24 V AC SELV		

Notes

## TRANSFORMERS

### Single-phase control, isolation and safety transformers

- acc. to EN 61558
- touch protected acc. to EN 60529 (IP20)
- isolation class T 60/B

Approvals:  



#### MTL

Input voltage 230/400 V AC  $\pm$  15 V AC  
Output voltage 24 V AC or 48 V AC SELV



#### MTL

Input voltage 230/400 V AC  $\pm$  15 V AC  
Output voltage 115 V AC or 230 V AC

Ordering data	Art.-No.	Art.-No.
Nominal power rating		
25 VA	86450	86470
40 VA	86451	86471
63 VA	86452	86472
100 VA	86453	86473
160 VA	86454	86474
250 VA	86455	86475
320 VA	86456	86476
<b>Technical data</b>		
Input voltage	230/400 V AC $\pm$ 15 V AC	
Output voltage	1 x 48 V AC, or 1 x 24 V AC, or 2 x 24 V AC	1 x 230 V AC, or 1 x 115 V AC, or 2 x 115 V AC

### Single-phase control, isolation and safety transformers

- acc. to EN 61558
- touch protected acc. to EN 60529 (IP20)
- isolation class T 60/B

Approvals:  



#### MTL

Input voltage 230/400 V AC  $\pm$  15 V AC  
Output voltage 24 V AC or 48 V AC SELV



#### MTL

Input voltage 230/400 V AC  $\pm$  15 V AC  
Output voltage 115 V AC or 230 V AC

Ordering data	Art.-No.	Art.-No.
Nominal power rating	spring clamp/screw terminals	spring clamp/screw terminals
400 VA	6686457	6686477
630 VA	86458	6686478
1000 VA	86459	6686479
1600 VA	86460	6686480
2500 VA	86461	6686481
<b>Technical data</b>		
Input voltage	230/400 V AC $\pm$ 15 V AC	
Output voltage	1 x 48 V AC, or 1 x 24 V AC, or 2 x 24 V AC	1 x 230 V AC, or 1 x 115 V AC, or 2 x 115 V AC

#### Notes

For screw-type terminal connection, the item number changes from 6686... to 86... (i.e. the prefix 66 is dropped).



For power supply units, primary switch modes, redundancy and buffering modules, as well as intelligent power distribution please refer to our brochure „System Solutions for Power Supply“



*stay connected*

Murrelektronik GmbH | Falkenstraße 3, D-71570 Oppenweiler | P.O. Box 1165, D-71567 Oppenweiler  
Phone +49 7191 47-0 | Fax +49 7191 47-130 | [info@murrelektronik.com](mailto:info@murrelektronik.com) | [www.murrelektronik.com](http://www.murrelektronik.com)

