

control and isolating transformers

■ Associated protection with your transformers

Single-phase Primary 230/400 V ± 15 V						
Us	24 V	24-48 V	48 V	115 V	115-230 V	230 V
40 VA	Transformer 423 01	424 01			424 89	424 41
	Cartridge T 2 A L ⁽¹⁾		T 1 A L	T 400 mA L		T 200 mA L
63 VA	Transformer 423 02	424 02			424 90	424 42
	Cartridge T 3,15 A L ⁽¹⁾		T 1,6 A L	T 630 mA L		T 315 mA L
100 VA	Transformer 423 03	424 03			424 91	424 43
	MCB 063 91		063 89	063 88		063 86
160 VA	Transformer 423 04	424 04			424 92	424 44
	MCB 063 93		063 91	063 89		063 88
250 VA	Transformer 423 05	424 05			424 93	424 45
	MCB 063 94		063 92	063 89		063 88
400 VA	Transformer 423 06	424 06			424 94	424 46
	MCB 063 96		063 93	063 91		063 89
630 VA	Transformer 423 08	424 08			424 95	424 48
	MCB 063 98		063 95	063 92		063 90
1 000 VA	Transformer 423 10	424 10			424 96	424 50
	MCB 064 00		063 97	063 93		063 91
1 600 VA	Transformer 423 11	424 11			424 97	424 51
	MCB 063 82		063 99	063 95		063 93
2 500 VA	Transformer 423 12	424 12			424 98	424 52
	MCB 064 76		063 81	063 97		063 94
4 000 VA	Transformer				424 99	424 53
	MCB			063 99		063 96

(1) integrated protection on single voltage secondaries 230 V

It is easy to select your transformer and its protection

Example :

Your power supply is **2500 VA**

Your output voltage is **48 V**

You need transformer **Cat.No 424 12**

protected by type **C MCB** Cat.No 063 81

■ Main transformer functions:

• Changing voltage:



Isolation transformer ((basic insulation between primary and secondary)



Auto-transformer (no insulation between primary and secondary)

• Control circuit power supply



Control transformer (basic insulation between primary and secondary)

• Protection against electric shock

- Protection against direct and indirect contact by:



Safety isolating transformers (reinforced insulation between primary and secondary, no-load voltage < 50 V)

- Protection against indirect contact by:



Isolating transformers (reinforced insulation between primary and secondary)

The transformer function(s) can either be defined by the equipment designer or can be imposed by installation guidelines or the equipment standard.

Definitions:

- Electric shocks: physiological effect resulting from an electrical current through a human or animal body (IEV 195-01-04)
- Direct contact: electric contact of persons or animals with live parts (195-06-03)
- Indirect contact: electric contact of persons or animals with exposed-conductive-parts which have become live under fault conditions (195-06-04)



Legrand studies each specific request for transformers: consult us