

Single-phase transformer

Cat.Nos: 2 425 00/01/02/03/04/05



1. GENERAL CHARACTERISTICS

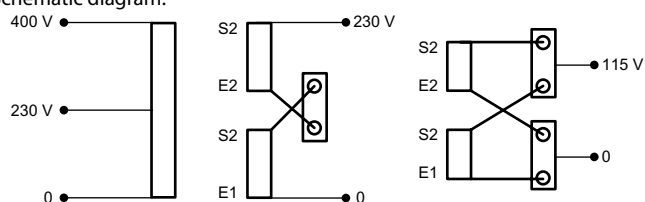
This transformer is intended to provide electrical isolation for a secondary network with or without voltage change, with a protection system specific to that network.

They are suitable for all types of functional isolation in buildings.

Dry-type equipment with natural air cooling.

Single-phase 50 - 60 Hz class 1

Schematic diagram:

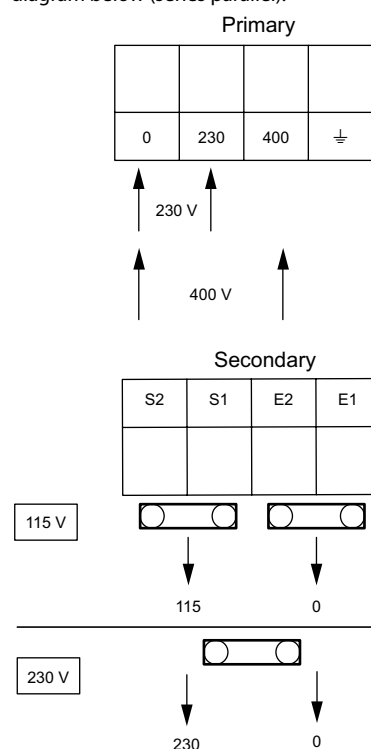


2. RANGE

Cat.Nos	Power (kVA)
2 425 00	1
2 425 01	1.6
2 425 02	2.5
2 425 03	4
2 425 04	6.3
2 425 05	10

2.1 Device connection

Secondary 115 or 230 V by positioning the links according to the wiring diagram below (series parallel):



3. TECHNICAL CHARACTERISTICS

3.1 General characteristics

Insulation and temperature rise:

- Class F up to 2.5 kVA,
- Class H from 4 kVA.

Insulation voltages:

- 3000 V between windings
- 3000 V between windings and ground

Ambient temperature:

- 30°C up to 2.5 kVA,
- 40°C from 4 kVA

3.2 Mechanical characteristics

Enclosure IP 21 - IK 08

RAL 7035

3. TECHNICAL CHARACTERISTICS (continued)**■ 3.3 Calorific potential (expressed in Mega Joules)**

Cat.Nos	P. Cal (MJ)
2 425 00	110
2 425 01	140
2 425 02	190
2 425 03	520
2 425 04	690
2 425 05	870

■ 3.4 Transformer protection

Primary protection can be provided by type D circuit breakers or type aM fuses.

Secondary protection can be provided by type C circuit breakers or type gG fuses.

Minimum rating for transformer primary supply line protection ⁽¹⁾

Power (kVA)	230 V single-phase				400 V single-phase			
	aM cartridge fuse		MCB D		aM cartridge fuse		MCB D	
1	10 A	0 130 10	16 A	4 080 15	4 A	0 130 04	8 A	4 080 13
1.6	10 A	0 130 10	20 A	4 080 16	6 A	0 130 06	16 A	4 080 15
2.5	16 A	0 130 16	32 A	4 080 18	10 A	0 130 10	20 A	4 080 16
4	25 A	0 130 25	50 A	4 080 20	16 A	0 130 16	32 A	4 080 18
6.3	32 A	0 140 32	63 A	4 080 21	20 A	0 130 20	40 A	4 080 19
10	63 A	0 150 63	100 A	4 094 59	32 A	0 140 32	63 A	4 080 21

(1) These values are given as a guide for transformers with inrush currents of approximately 25 I_n

Minimum rating for transformer secondary supply line protection ⁽¹⁾

Power (kVA)	115 V				230 V			
	Rating	Cartridge fuse Cat.No	Rating	MCB Cat.No	Rating	Cartridge fuse Cat.No	Rating	MCB Cat.No
1	8 A	0 133 08	8 A	4 076 97	4 A	0 133 05	4 A	4 076 95
1.6	16 A	0 133 16	13 A	4 076 99	8 A	0 133 08	8 A	4 076 97
2.5	20 A	0 133 20	20 A	4 077 01	10 A	0 133 10	10 A	4 076 98
4	32 A	0 143 32	32 A	4 077 03	16 A	0 133 16	16 A	4 077 00
6.3	50 A	0 143 50	50 A	4 076 59	25 A	0 133 25	25 A	4 077 02
10	80 A	0 153 80	80 A	4 091 40	40 A	0 143 40	40 A	4 077 04

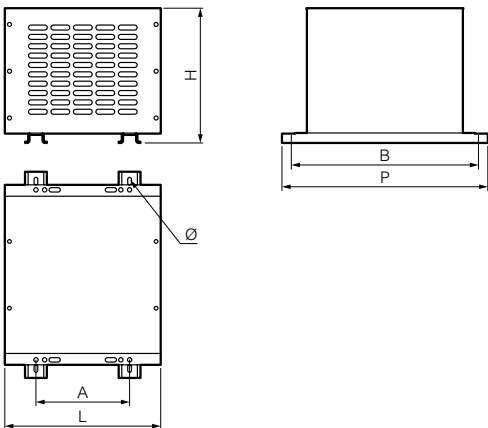
■ 3.5 Electrical characteristics

Primary: 400 V - 20 V or 230 V - 400 V

Cat.No	Power (kVA)	Losses		Voltage drop	Efficiency at 20°C	U _{cc} at 20°C (%)	Primary terminal blocks	Secondary terminal blocks
		no-load (W)	due to load at 20°C (W)	cos φ = 1 (%)			flexible cable (mm²)	flexible cable (mm²)
2 425 00	1	30	30	3	94,3	3	4	4
2 425 01	1.6	40	39	2,43	95,3	2,6	4	4
2 425 02	2.5	58	52	2,08	95,7	2,3	10	10
2 425 03	4	105	75	1,87	95,6	2,1	16	16
2 425 04	6.3	100	240	3,8	94,9	4,2	16	35
2 425 05	10	140	310	3,1	95,6	3,4	16	35

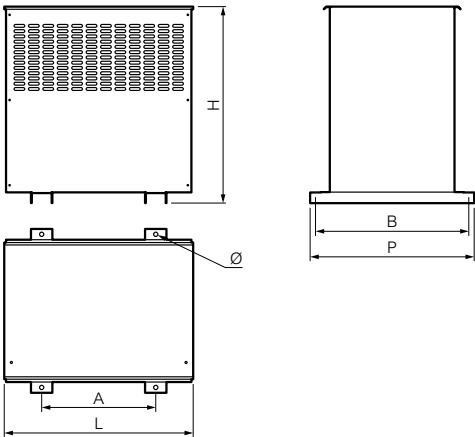
4. DIMENSIONS

Cat.Nos 2 425 00/01/02



Cat.Nos	Dimensions (mm)			Fixing (mm)			Weight (kg)
	H	L	P	A	B	Ø	
2 425 00	220	250	330	122	300	7	15
2 425 01	220	250	330	150	300	7	20
2 425 02	220	250	330	150	300	7	28

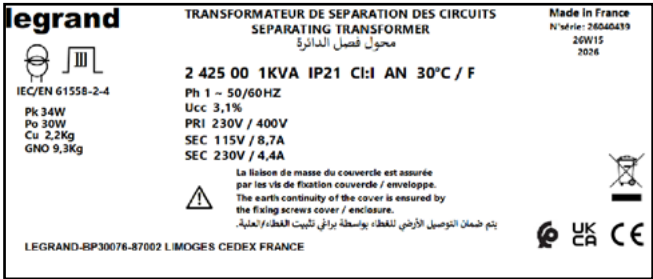
Cat.Nos 2 425 03/04/05



Cat.Nos	Dimensions (mm)			Fixing (mm)			Weight (kg)
	H	L	P	A	B	Ø	
2 425 03	385	360	400	210	375	10	57
2 425 04	560	530	460	240	430	12	68
2 425 05	560	530	460	240	430	12	88

5. MARKING

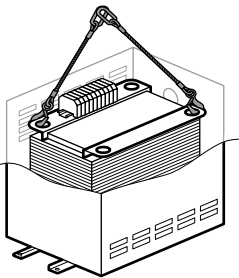
Information available on the product label positioned on the cover



Note: The information provided in this section is for guidance only. Actual data and marking layout may vary depending on the product version

6. HANDLING / LIFTING

From 4 kVA
Anchoring points (Ø 16 mm) on the upper brackets, accessible after removing the cover



7. STANDARDS AND REGULATIONS

Compliant with IEC EN 61558-2-4 standard up to 5 kVA
Compliant with IEC EN 60076-11 standard from 6.3 kVA

RoHS
Compliance with the 2011/65/EU Directive (RoHS), as modified by the 2015/863/EU Delegated Directive, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

REACH
The substances identified as SVHC (Substances of Very High Concern) according to the REACH Regulation (1907/2006), if present in the products at a concentration above 0.1% weight by weight, are declared inside the European SCIP database. At the date of publication of this document none of the substance listed in the annex XIV is found in this product.

WEEE
WEEE Directive (2012/19/EU): the sale of this product includes a contribution to the appointed environmental bodies of each European country in charge of handling, at the end of their life, the products falling within the scope of the EU Directive on Electrical and Electronic Equipment Waste

Packaging
Design and manufacture of packaging compliant with European Directive 94/62/CE.

8. OTHER INFORMATION

For more technical information, contact the technical support of Legrand.
Unless otherwise indicated, the data reported in this document refers exclusively to the test conditions according to the product standards.
For different product usage conditions, inside electrical equipment or any other installation context, refer to the equipment's regulatory requirements, local regulations, and system design specifications.