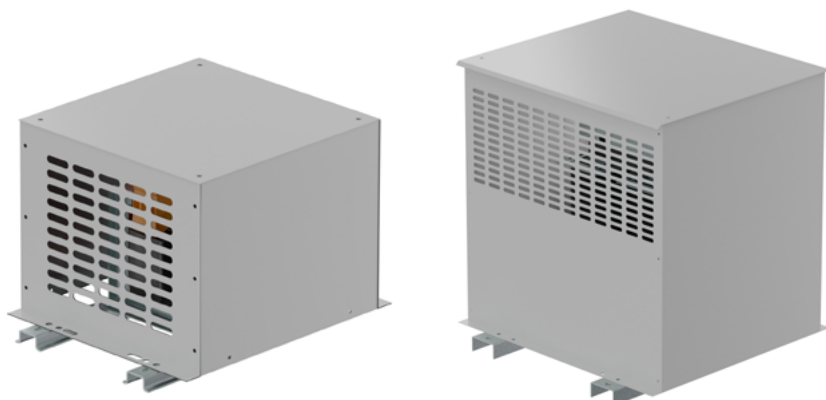


Single-phase transformer with electrostatic shield

Cat.Nos: 2 425 17/18
2 425 55 to 2 425 61



1. GENERAL CHARACTERISTICS

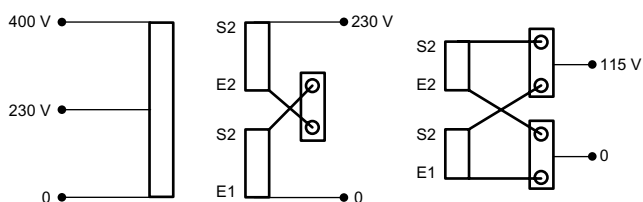
This transformer is intended to provide electrical isolation for a secondary network with or without voltage change, with a protection system specific to that network.

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

Single-phase transformer with adjustment taps and electrostatic shield

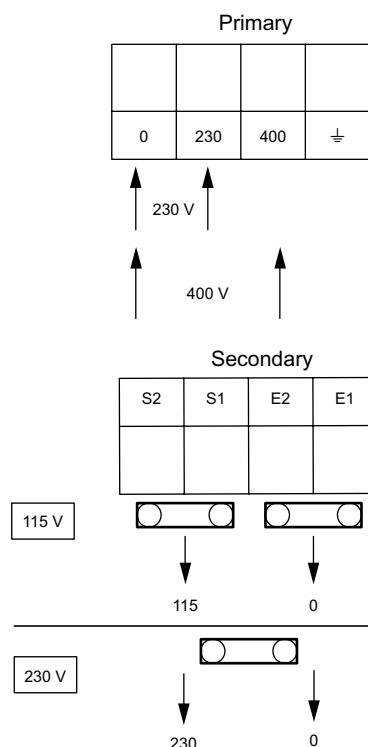
Cat.Nos	Power (kVA)
2 425 17	1.6
2 425 18	2.5
2 425 55	4
2 425 56	5
2 425 57	6.3
2 425 58	8
2 425 59	10
2 425 60	12.5
2 425 61	16

2.1 Device connection

Connection via cage-clamp terminal blocks or flat terminals, depending on the power rating

Primary 230/400 V~

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 17	140
2 425 18	190
2 425 55	520
2 425 56	540
2 425 57	690
2 425 58	1020
2 425 59	870
2 425 60	970
2 425 61	1200

■ 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	
1.6	10 A	0 130 10	16 A	4 080 15	6 A	0 130 06	10 A	4 080 14
2.5	16 A	0 130 16	25 A	4 080 17	10 A	0 130 10	16 A	4 080 15
4	25 A	0 130 25	32 A	4 080 18	16 A	0 130 16	20 A	4 080 16
5	32 A	4 080 16	40 A	4 080 19	16 A	0 130 16	25 A	4 080 17
6.3	32 A	0 140 32	50 A	4 080 20	20 A	0 130 20	32 A	4 080 18
8	40 A	0 140 40	63 A	4 080 21	25 A	0 130 25	40 A	4 080 19
10	63 A	0 150 63	80 A	4 094 58	32 A	0 140 32	50 A	4 080 20
12.5	63 A	0 150 63	100 A	4 094 59	40 A	0 140 40	63 A	4 080 21
16	80 A	0 150 80	160 A	4 200 07	50 A	0 140 50	80 A	4 094 58

(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
1.6	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
5	40 A	0 143 40	40 A	4 077 04	20 A	0 133 20	20 A	4 077 01
6.3	50 A	0 143 50	50 A	4 076 59	25 A	0 133 25	25 A	4 077 02
8	80 A	0 153 80	80 A	4 091 40	32 A	0 143 32	32 A	4 077 03
10	80 A	0 153 80	80 A	4 091 40	40 A	0 143 40	40 A	4 077 04
12.5	100 A	0 153 96	100 A	4 091 41	50 A	0 143 50	50 A	4 076 59
16	160 A	0 163 55	160 A	4 200 47	80 A	0 153 80	80 A	4 091 40

■ 3.5 Electrical characteristics

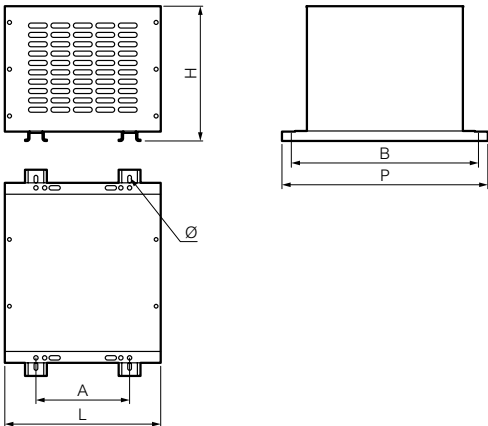
Primary: 230 V - 400 V

Cat.Nos	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)				flexible cable (mm ²)	flexible cable (mm ²)
2 425 17	1.6	40	39	2,43	95,3	2,6	4	4
2 425 18	2.5	58	52	2,08	95,7	2,3	10	10
2 425 55	4	105	75	1,87	95,6	2,1	16	16
2 425 56	5	100	122	2,44	95,7	2,8	16	16
2 425 57	6.3	100	240	3,8	94,9	4,2	16	35
2 425 58	8	110	253	3,16	95,6	3,4	16	35
2 425 59	10	140	310	3,10	95,6	3,4	16	35
2 425 60	12.5	145	281	2,25	96,7	3	35 (1)	70 (2)
2 425 61	16	195	405	2,53	96,3	3,2	35	35

(1) Ø 8 connection screws - (2) Ø 10 connection screws

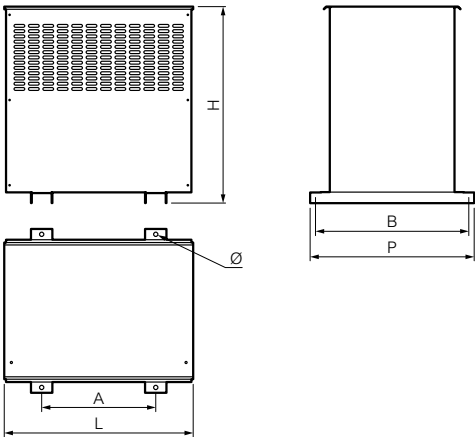
4. DIMENSIONS

Cat.Nos 2 425 17/18



Cat.Nos	Dimensions (mm)			Fixing (mm)			Weight (kg)
	H	L	P	A	B	Ø	
2 425 17	220	250	330	150	300	7	20
2 425 18	220	250	330	150	300	7	28

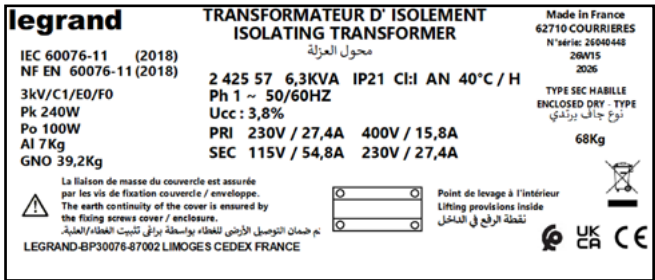
Cat.Nos 2 425 55 to 2 425 61



Cat.Nos	Dimensions (mm)			Fixing (mm)			Weight (kg)
	H	L	P	A	B	Ø	
2 425 55	385	360	400	210	375	10	57
2 425 56	385	360	400	210	375	10	55
2 425 57	560	530	460	320	430	12	68
2 425 58	560	530	460	320	430	12	77
2 425 59	560	530	460	320	430	12	88
2 425 60	560	530	460	320	430	12	75
2 425 61	560	530	540	320	510	12	173

5. MARKING

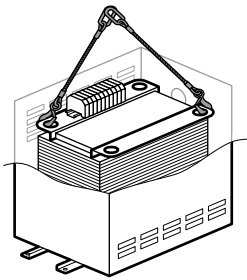
Information available on the product label positioned on the cover



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 4 kVA
Compliant with IEC EN 60076-11 standard from 5 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.