128, av. du Maréchal-de-Lattre-de-Tassigny - 87045 LIMOGES Cedex
Tel. : 33(0)5 55 06 87 87
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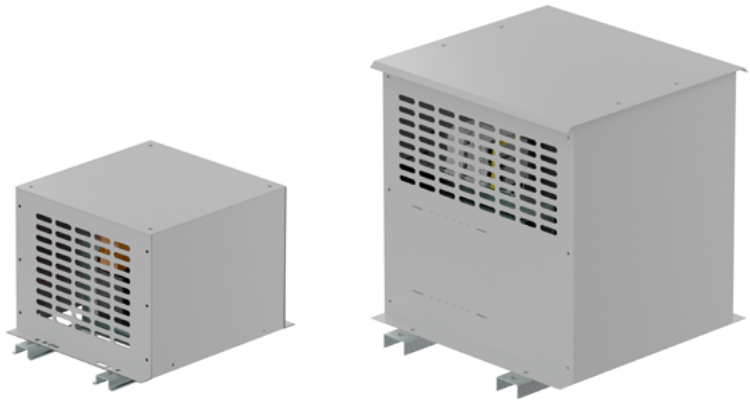
Single-phase autotransformer

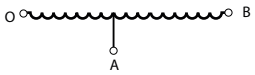
Cat.Nos: 2 422 65/66/67/68



1. GENERAL CHARACTERISTICS

Equipment intended to power electrical assemblies such as motors, compressors, air conditioning units, enclosures or various electrical machines requiring a voltage change, without changing the neutral system or electrical isolation of the distribution network.
Dry-type equipment with natural air cooling.
Single-phase 50 - 60 Hz Class 1.

Schematic diagram:



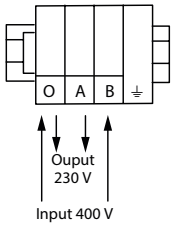
2. RANGE

Cat.Nos	Power (kVA)
2 422 65	3.15
2 422 66	4
2 422 67	6.3
2 422 68	8

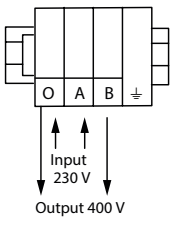
■ 2.1 Device connection

By cage terminal blocks

Step-down type 400V / 230V
400 V supply, star (marks B)
230 V use, star neutral output (marks A)



Step-up type 230V / 400V



3. TECHNICAL CHARACTERISTICS

■ 3.1 General characteristics

Insulation and temperature rise:
- Class F up to 4 kVA,
- Class H from 6.3 kVA.

Insulation voltage:
- 3000 V between windings and ground

Ambient temperature:
- 30°C up to 4 kVA,
- 40°C from 6.3 kVA

■ 3.2 Mechanical characteristics

Enclosure IP 21 - IK 08
RAL 7035

■ 3.3 Calorific potential (expressed in Mega Joules)

Cat.No 2 422 65: 140 MJ
Cat.No 2 422 66: 150 MJ
Cat.No 2 422 67: 370 MJ
Cat.No 2 422 68: 400 MJ

■ 3.4 Autotransformer protection

Primary protection can be provided by type D MCB or by aM type fuses.
Secondary protection can be provided by type C MCB or by gG type fuses.

Minimum rating for autotransformer primary supply line protection [1]

Power (kVA)	230 V			400 V		
	aM fuse	MCB C type	MCB D type	aM fuse	MCB C type	MCB D type
3.15	20 A	63 A	32 A	16 A	40 A	20 A
	0 130 20	4 080 21	4 080 12	0 130 16	4 080 19	4 080 16
4	25 A	100 A	50 A	16 A	63 A	32 A
	0 130 25	4 094 59	4 080 20	0 130 16	4 080 21	4 080 12
6.3	40 A	125 A	63 A	25 A	80 A	40 A
	0 140 40	4 094 60	4 080 21	0 130 25	4 094 58	4 080 19
8	50 A	160 A	80 A	32 A	100 A	50 A
	0 140 50	4 200 07	4 094 58	0 140 32	4 094 59	4 080 20

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

3. TECHNICAL CHARACTERISTICS *(continued)*

■ 3.3 Autotransformer protection (continued)

Minimum rating for autotransformer secondary supply line protection (1)

Power (kVA)	230 V				400 V			
	Rating	Cartridge fuse Cat.No	Rating	MCB Cat.No	Rating	Cartridge fuse Cat.No	Rating	MCB Cat.No
3.15	16 A	0 133 16	16 A	4 078 98	10 A	0 133 10	10 A	4 078 96
4	25 A	0 133 25	25 A	4 079 00	16 A	0 133 16	16 A	4 078 98
6.3	40 A	0 143 40	40 A	4 079 02	25 A	0 133 25	25 A	4 079 00
8	50 A	0 143 50	50 A	4 076 59	32 A	0 143 32	32 A	4 079 01

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

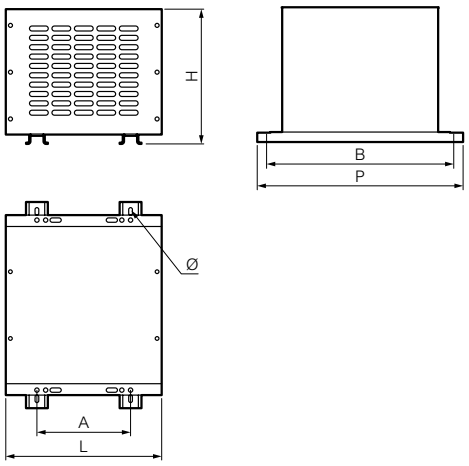
■ 3.5 Electrical characteristics

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

Cat.Nos	Power (kVA)	Losses		Voltage drop	Efficiency at 20°C	Ucc at 20°C (%)	Primary terminal blocks	Secondary terminal blocks
		no-load (W)	due to load at 20°C (W)	cos φ = 1 (%)			flexible cable (mm^2)	flexible cable (mm^2)
2 422 65	3.15	29	31	1	98.1	1.1	4	4
2 422 66	4	42	35	0.88	98.1	1	4	4
2 422 67	6.3	61	58	0.92	98.1	1.1	16	16
2 422 68	8	75	65	0.85	98.2	0.9	35	35

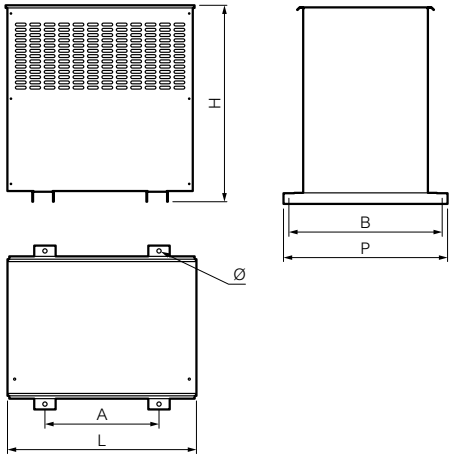
4. DIMENSIONS

Cat.Nos 2 422 65/66



Cat.Nos	Dimensions (mm)			Fixing (mm)			Weight (kg)
	H	L	P	A	B	Ø	
2 422 65	220	250	330	150	300	7	21
2 422 66	220	250	330	150	300	7	22

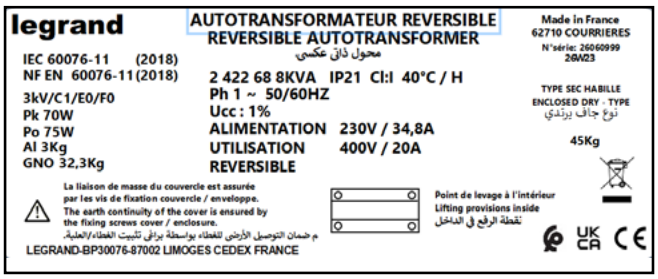
Cat.Nos 2 422 67/68



Cat.Nos	Dimensions (mm)			Fixing (mm)			Weight (kg)
	H	L	P	A	B	Ø	
2 422 67	385	360	400	210	375	10	38
2 422 68	385	360	400	210	375	10	45

5. MARKING

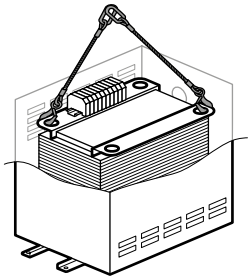
Information available on the product label positioned on the cover:



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 (not available for Cat.No 2 422 65)
Anchoring points on the upper brackets, accessible after removing the cover



7. STANDARDS AND REGULATIONS

Compliant with IEC 60076-11 standard: Power transformers Part 11: Dry-type transformers

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.