3-PHASE STEP-DOWN TRANSFORMERS

Southern Transformers

Powering Imported 3ph Equipment

Many industrial machines are imported from Europe, the US, China and Japan — often with voltage ratings that don't match Australian supply.

Southern Transformers step-down autotransformers allow overseas 3-phase equipment to operate safely and reliably on Australian 415V power.

Extensive Range

- 415V to 200V, 220V, 380V for common requirements
- Custom Voltages for specific applications
- Incorrectly sized transformers can cause overheating, nuisance tripping or equipment damage.
- Our range ensures the transformer is correctly matched to your equipment load.

Standards & Compliance

Designed, built and tested in accordance with:

- AS/NZS/IEC 60076 & AS/NZS/IEC 61558
- Built for easy installation & compliance

Performance & Construction

- Autotransformer configuration (no galvanic isolation)
- High-efficiency design
- Copper windings, Premium NGO/CRGO core steel
- IP23 (indoor) or IP65 (outdoor) enclosure options

Leadtime

- Ex-stock or rapid manufacture
- Built locally in Melbourne
- Typical delivery: days to weeks, not months

COMMON VOLTAGE CONVERSIONS

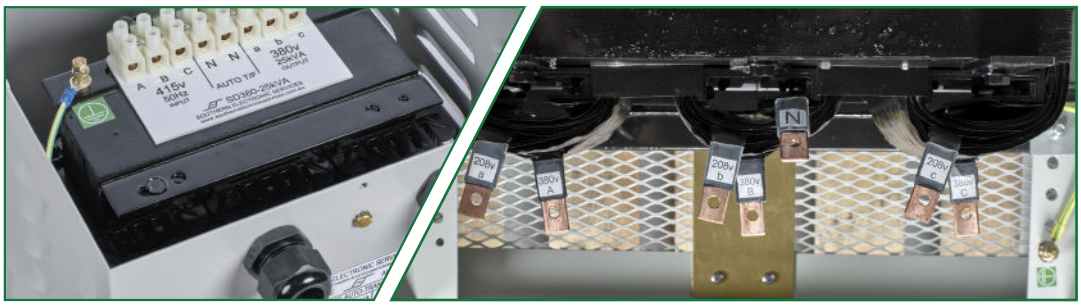
- **415V / 200V** *Japan*
- **415V / 220V** *208V-230V, US/Canada*
- **415V / 380V** *Europe, China, Korea*
- **480V / 415V** *Industrial Site Supply*

5-YEAR WARRANTY

No 12-month nonsense. Real reassurance.

Our transformers are designed conservatively to run continuously at rated capacity for well over 25 years.





5 YEAR WARRANTY — 5-year Warranty

Australian Made

Reliable Leadtimes

3-phase Specialists

Technical Support End-to-End

Fit-For-Purpose Solutions

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STANDARD 3PH STEPDOWN RANGES

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Voltage Conversion for Imported 3-Phase Equipment

The tables below show standard kVA ratings, output currents and typical enclosure sizes for our 3-phase step-down autotransformer ranges.

Custom voltages, kVA capacities and fully isolated transformer designs are also available.

SD200 (415V / 200V) Range & SD220 (415V / 220V) Range

Technical Properties				Dimensions - IP23 (indoor)	
POWER RATING	**INPUT**	**OUTPUT (SD200)**	**OUTPUT (SD220)**	**H x W x D (mm)**	**Mass (kg)**
5 kVA	415V @ 7A	200V @ 14A	220V @ 13A	280 x 300 x 280	35 kg
10 kVA	415V @ 14A	200V @ 29A	220V @ 26A	370 x 450 x 270	60 kg
15 kVA	415V @ 21A	200V @ 43A	220V @ 39A	480 x 480 x 480	105 kg
25 kVA	415V @ 28A	200V @ 72A	220V @ 66A	685 x 480 x 390	145 kg
30 kVA	415V @ 42A	200V @ 87A	220V @ 79A	685 x 480 x 480	160 kg
50 kVA	415V @ 70A	200V @ 144A	220V @ 131A	700 x 710 x 480	225 kg
75 kVA	415V @ 104A	200V @ 217A	220V @ 197A	1080 x 760 x 660	345 kg
100 kVA	415V @ 139A	200V @ 289A	220V @ 262A	1080 x 760 x 660	385 kg
125 kVA	415V @ 174A	200V @ 361A	220V @ 328A	1080 x 760 x 660	445 kg
150 kVA	415V @ 209A	200V @ 433A	220V @ 394A	1080 x 760 x 660	445 kg
250 kVA	415V @ 348A	200V @ 722A	220V @ 656A	1300 x 775 x 700	670 kg

Standard ratings shown. Custom voltages and larger capacities available.
Open-type & IP65 (outdoor) available.
SD220 range typically suitable for equipment rated between 208V - 230V.

SD380 (415V / 380V) Range

Technical Properties			Dimensions - IP23 (indoor)	
POWER RATING	**INPUT**	**OUTPUT (380V)**	**H x W x D (mm)**	**Mass (kg)**
5 kVA	415V @7A	380V @ 8A	280 x 300 x 280	35 kg
10 kVA	415V @ 14A	380V @ 15A	370 x 450 x 270	60 kg
15 kVA	415V @ 21A	380V @ 23A	480 x 480 x 480	105 kg
25 kVA	415V @ 35A	380V @ 38A	480 x 480 x 480	120 kg
30 kVA	415V @ 42A	380V @ 46A	685 x 480 x 480	160 kg
50 kVA	415V @ 70A	380V @ 76A	700 x 710 x 480	225 kg
75 kVA	415V @ 104A	380V @ 114A	1080 x 760 x 660	345 kg
100 kVA	415V @ 139A	380V @ 152A	1080 x 760 x 660	385 kg
125 kVA	415V @ 174A	380V @ 174A	1080 x 760 x 660	445 kg
150 kVA	415V @ 209A	380V @ 228A	1080 x 760 x 660	445 kg
250 kVA	415V @ 348A	380V @ 380A	1300 x 775 x 700	670 kg

Custom voltages and larger capacities available.
Open-type & IP65 (outdoor) available.



Quick kW to kVA Sizing

1. Confirm equipment kW rating
2. Multiply rated kW x 1.25
3. Select next kVA size up

Eg. 18kW machine x 1.25 ≈ 22.5 = 25kVA

3ph Step Down

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