



泰利電器實業股份有限公司
TAILI ELECTRIC CORPORATION



CATALOG



VARIABLE TRANSFORMER(SLIDAC)

TL-SLIDAC

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Table of Contents

Introduction	1-3
Features	4-6
Normal Type(Manual, Motorized(M))	4
Fully equipped test sets(A)	5
Applications	6
Product Selection Guide	7
Type Number Designations	8
Technical Information	9
Specification	10-14
TL-1 Family (Single phase 1Φ 100V, 110V 120V)	10
TL-2 Family (Single phase 1Φ 200V, 220V 240V)	11
TL-14 Family (Single phase 1Φ 380V, 400V, 415V, 440V, 480V)	12

Table of Contents

TL-31 Family (Three phase 3 Φ Open delta 100V, 110V 120V)	13
TL-3, 32 Family (Three phase 3 Φ Wye, Open delta 200V, 220V 240V)	14-15
TL-33, 34 Family (Three phase 3 Φ Wye 380V, 400V, 415V, 440V, 480V)	16
Contact Us	17

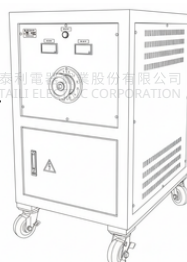
TL-SLIDAC

Introduction

General type
(Manual)



Manual & fully equipped
test sets(HA)
e.g. TL-14100LHA-800V



Motorized & fully equipped
test sets(MA)
e.g. TL-34150LMA-800V



Basic information

The TL-SLIDAC variable transformer developed by TAILI is manufactured entirely in Taiwan, with 100% locally sourced materials throughout the production line. In addition to meeting the EU CE certification requirements, it also complies with European (EN) and International Electrotechnical Commission (IEC) standards, including EN/IEC 61558-1 and EN/IEC 61558-2-13. The winding materials used conform to international specifications such as UL E84081, UL E84201, JIS 3202, NEMA MW, and IEC 60317, and feature insulation heat-resistance ratings of Class F (155°C) and Class H (180°C), ensuring safe performance under various overload conditions. Every stage of production undergoes strict quality control to guarantee product stability and safety. Standard models are available in single-phase 100V, 110V, and 120V, as well as three-phase 380V, 400V, 415V, 440V, and 480V, with capacities ranging from 0.3 kVA for single-phase units up to approximately 1,700 kVA for three-phase units (with higher capacities available upon request), and current ratings from 2A to 2000A. Customized high-capacity or special-specification models can also be built upon request. Manual, motor-driven (M), and fully equipped test (A) versions are available. In addition to standard structural designs, TAILI has independently developed the L-type (L) heavy-duty structure (e.g. TL-250L, TL-34500L), which offers a more compact size, lighter weight, improved heat dissipation, and higher efficiency compared with products of the same capacity. The TL-SLIDAC variable transformer is widely used for laboratory testing, power load testing, temperature-rise testing, high and low voltage switchgear load testing and solid-state transformer testing. For over 30 years, TAILI has continued to provide high-quality voltage regulation and testing equipment to leading enterprises domestically and abroad, meeting diverse application needs.

Wonderful voltage regulation

TAILI's TL-SLIDAC variable transformer allows users to obtain the required output voltage within the rated range either by manual knob adjustment or by motorized control. From no-load to full-load conditions, the variation in output voltage is extremely small and can be considered negligible. This chapter also provides a voltage drop table for users to reference the unit's regulation characteristics.

High efficiency

Compared with conventional resistance-based control methods—such as variable resistors and other resistive controllers—which rely on resistive adjustment, have low efficiency, and result in significant power loss, TAILI's TL-SLIDAC variable transformer features exceptionally low power dissipation and delivers an overall efficiency of up to approximately 98%.

TL-SLIDAC

➡ Distortionless voltage control

It can accurately and faithfully transfer the input waveform to the output, providing distortion-free voltage control—an essential characteristic for many advanced electronic applications. With high-quality materials that meet international standards and decades of manufacturing experience, TAILI's TL-SLIDAC variable transformer delivers an output voltage that precisely replicates the input waveform, with distortion so minimal that it is virtually negligible.

➡ Long life with negligible maintenance

The conductive components maintain constant pressure against the smooth and securely fixed contact surfaces, ensuring excellent mechanical performance, long service life, and low operating resistance. These conductive elements rarely require replacement, and when replacement is necessary, the process is simple and convenient. The product is designed with high safety margins in terms of voltage, current-carrying capacity, and insulation strength, providing extended operational longevity. Under normal use, its specialized materials and structural design ensure reliable contact with the contact surface at any setting, resulting in extremely low maintenance frequency.

➡ Linear output voltage regulation

The output voltage adjusts smoothly and linearly, with continuous regulation from zero to the rated maximum value in direct proportion. Each turn of the winding is evenly arranged, making fine voltage adjustment simple and precise. All models are engineered so that the knob rotation angle is directly proportional to the output voltage, ensuring smooth and accurate operation.

➡ Rugged mechanical design

TAILI's TL-SLIDAC variable transformer features a robust and durable design. Each stage of production undergoes strict inspection to ensure reliable product quality. The entire unit is securely mounted and, in models equipped with the large-capacity L-type (L) structure, heat dissipation is enhanced while maintenance and replacement requirements are reduced, improving overall service life and operational reliability. The fully equipped test version (A) is constructed with a high-rigidity, one-piece angle steel frame, and is fitted with casters and adjustable leveling feet. The unit meets the IP20 international protection standard of the International Electrotechnical Commission (IEC 60529), preventing solid objects larger than 12.5 mm in diameter—such as fingers—from entering the equipment.



TL-SLIDAC

⊕ Specialized professional process

TAILI's TL-SLIDAC variable transformer features an internal design developed using a specialized professional process. This design maintains stable and consistent voltage drop under high-load conditions, delivers superior operational performance, extends service life, and ensures smooth and reliable operation.

⊕ Overload capacity

The TL-SLIDAC variable transformer is designed with conservative ratings and utilizes winding materials that comply with international standards such as JIS 3202, NEMA MW, and IEC 60317, with insulation heat-resistance ratings of Class F (155°C) and Class H (180°C), enabling safe operation under various overload conditions. The "Power-On" curves in Figure A of the catalog indicate the maximum allowable energization time under different overloads. For frequent repeated overloads, the unit must observe sufficient rest periods according to the "Power-Off" curves to prevent excessive temperature rise. Under single instantaneous loads or intermittent switching loads, the output current can reach up to ten times the rated value for a short duration; specific limits are provided in the corresponding catalog figures. When the energization time of repeated overloads is below the maximum values shown, the power-off time can be appropriately shortened according to the following formula to ensure safe operation.

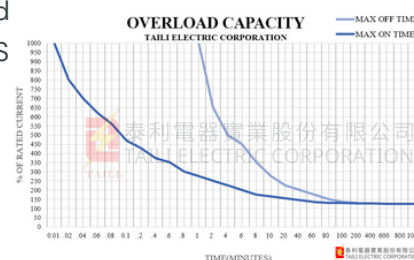


Figure A

$$\frac{\text{OFF TIME}}{\text{ON TIME}} = \left(\frac{\text{OVERLOAD CURRENT}}{\text{RATED CURRENT}} \right)^2 - 1$$

⊕ Voltage doubler(dual input)(VD)

Most types with 200V, 220V, or 240V input can be optionally equipped with additional input voltage terminals, allowing the output voltage to exceed the rated voltage even at half of the rated input voltage. When the output voltage surpasses the input voltage, the output current must be appropriately reduced according to the curves in Figure B of the catalog. This design supports input voltages of 100V, 110V, or 120V, enabling output voltages of 0–240V, 0–260V, or 0–280V, providing flexible voltage adjustment to meet the requirements of different countries and applications.

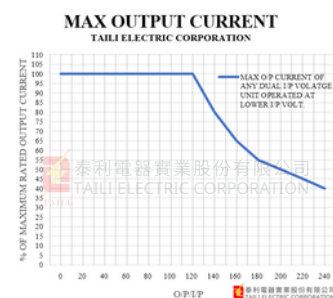


Figure B

⊕ Temperature and rating

TAILI's TL-SLIDAC variable transformer, due to its low power loss, can operate stably at rated current in ambient temperatures ranging from -20°C to +50°C (-4°F to 122°F). In environments above 50°C, the output current must be appropriately reduced according to the curves shown in Figure C of the catalog.

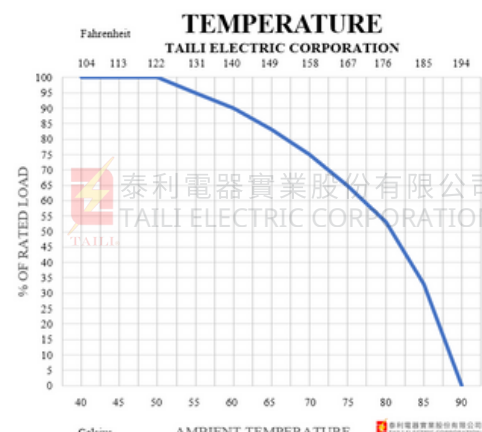


Figure C

TL-SLIDAC

Features

⌚ General type(manual, motorized(M))

⌚ Smooth-turn design

TAILI's TL-SLIDAC variable transformer is mechanically and practically engineered for ease of use. The rotation shaft is lightweight and effortless to turn, allowing precise adjustment of the desired output voltage with minimal effort.

⌚ Efficient cooling design

Equipped with an excellent heat dissipation design, the TL-SLIDAC variable transformer effectively reduces heat accumulation during operation, ensuring stability and long-duration performance. Models featuring the large-capacity L-type (L) structure offer a more compact size, lighter weight, improved cooling, and higher efficiency compared with standard units of the same capacity, while also reducing maintenance and replacement requirements.

Thermal-efficient



⌚ High insulation and heat resistance

The TL-SLIDAC variable transformer uses winding materials that comply with international standards such as UL E84081, UL E84201, JIS 3202, NEMA MW, and IEC 60317. The insulation has heat-resistance ratings of Class F (155°C) and Class H (180°C), enabling safe operation under various overload conditions. The entire manufacturing process is subject to strict quality control to ensure product stability and safety.

Low-torque



Insulated



TL-SLIDAC

⊕ Fully equipped test sets(A)

⊕ Control and display interface

The control and display interface of the TL-SLIDAC variable transformer fully equipped test sets (A) is clear, easy to operate, and ergonomically designed. Users can switch between viewing the voltage and current of each phase, and an optional combined meter with RS-485 connectivity to a computer enhances the practicality of power testing. In the motorized fully equipped version, in addition to voltage adjustment, a speed control function can be integrated to achieve user-friendly voltage regulation.

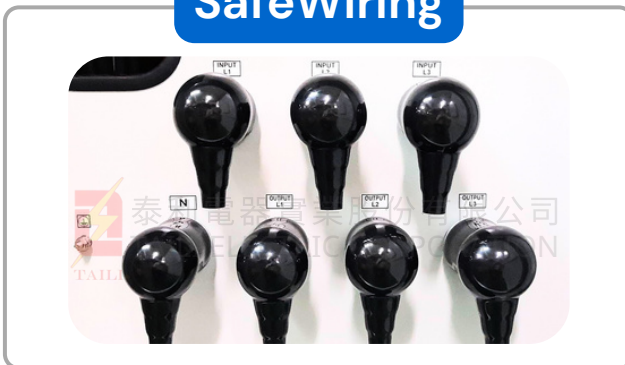
Easy ctrl



⊕ Safe wiring space

The fully equipped test sets (A) feature a safe wiring space design, providing ample and well-organized internal wiring clearance for secure and reliable connections. This design effectively reduces the risk of short circuits, overheating, or loose wiring, ensuring safety during installation and operation, while also enhancing overall system stability and durability.

SafeWiring



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⊕ Multi-layer design

The fully equipped test sets (A) are constructed with a high-rigidity, one-piece angle steel frame and feature casters and adjustable leveling feet. The unit complies with the IP20 international protection standard of the International Electrotechnical Commission (IEC 60529), preventing solid objects larger than 12.5 mm in diameter—such as fingers—from entering the equipment. All four sides of the enclosure are designed for safety and easy removal. The cooling fans are dust-proof and integrated within the enclosure design, ensuring compliance with international safety standards.

Multiple





TL-IVR

- **Wide High-Voltage Adjustment Range:** Capable of handling both high input and output voltages to meet diverse testing and industrial application requirements.
- **High-Capacity, High-Current Capability:** Customizable for current ranges from 2–2000A and capacities from 0.3–1700 kVA, suitable for applications from laboratory setups to large industrial equipment.
- **EU CE Safety Certification:** Compliant with international safety standards including EN/IEC 61558-1 and EN/IEC 61558-2-13, ensuring both quality and safety for global markets.
- **High-Grade Insulation Wiring:** All types use wiring materials that meet UL E84081, UL E84201, JIS 3202, NEMA MW, and IEC 60317 standards, with insulation rated Class F (155°C) and Class H (180°C) for long-term stable operation.
- **High Reliability in Harsh Environments:** Wide input voltage range, low power loss, high efficiency ($\geq 98\%$), and power factor close to 1, ensuring stable operation under industrial conditions.
- **L-Type Large-Capacity Structure Design:** Compared to standard units of the same capacity, the L-type (Large Load) structure offers a more compact size, lighter weight, improved heat dissipation, and higher efficiency.
- **Multi-Functional Intelligent Display Interface:** Built-in meters provide real-time voltage and current readings, with RS-485 communication capability for connection to computers, supporting diverse testing and data analysis needs.
- **Excellent Overload Capability:** Can withstand short-term overloads of 10× rated current for shorter than 1 second, offering high instantaneous tolerance and reliability.

Applications

Busbar testing

Power equipment testing

Power supply testing

Withstand voltage (dielectric) testing

Temperature rise testing

Equipment and instrument load performance testing

Laboratories

Solid-state transformer testing

High-capacity transformer testing

Motor testing

High and low voltage switchgear load testing

Industrial electrical production lines



TL-SLIDAC

Product Selection Guide

Selecting the TL-SLIDAC variable transformer that best meets your needs is simple. First, confirm the following basic information:

1. Input: Phase, wiring, frequency, and voltage
2. Output: Maximum adjustable voltage, current, and capacity
3. Type and options: Manual, motorized (M), fully equipped test sets (A), any additional options, and special requirements

To assist you in selecting the correct model, TAILI provides standard product specifications, available on the "Specification" page. You can also contact TAILI directly at taili.slidac@msa.hinet.net for immediate assistance.

Step 1

Input

Phase/wire, Frequency, Voltage

Step 2

Output

Maximum adjustable voltage, Current, and Capacity

Step 3

Type and options

Manual, Motorized(M), Fully equipped test sets(A), any additional options, and special requirements

Contact TAILI

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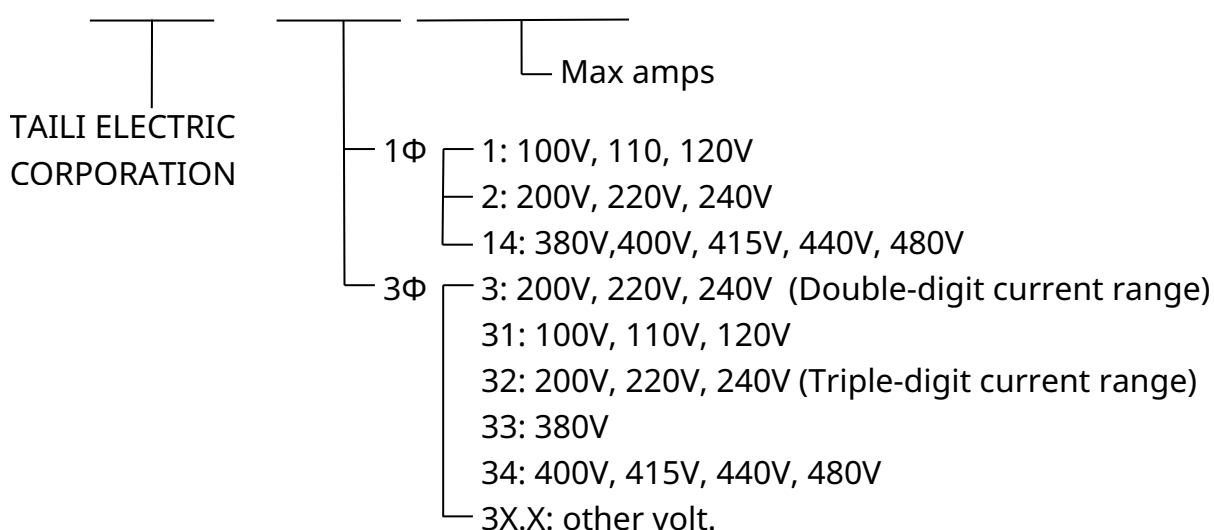
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TL-SLIDAC

Type Number Designations

TL-34500LMA-800V



TAILI's TL-SLIDAC variable transformers are available in a variety of designs and configurations. These Types can be identified by adding the following suffixes or suffixes-continued to the base type number.

TL-34500LMA-800V

Suffixes

V: Voltmeter	L: L-type large-capacity structure
A: Ammeter	E: Embedded
P: Wattmeter / Power meter	VD: Dual input
D: Digital Power Meter(3Φ)	M: Motorized type
B: MCCB (Molded Case Circuit Breaker)	SM: Stepper motorized type
F: Fuses (for non-L type) / Fans (for L type)	A: Fully equipped test sets
W: Casters/Wheels	HA: Manual& fully equipped test sets
I: Indicator lights	N: Wires, sockets, and plugs
T: Terminal protective covers	R: Remote control

Suffixes continued

- V: High output volt.
- D: Three phase(3Φ) open delta
- E: IP20 Enclose

TL-SLIDAC

Technical information

Custom specifications available

Type	General	Fully equipped test sets(A)
		
Operation type	Manual	Motorized(M)
Voltage Regulation Speed (from Minimum to Maximum Output)	-	Fixed Speed Type: 5, 15, 30, 52, 60 seconds (Other speeds available upon request) Externally Adjustable Speed Type
Phase(Φ)	Single phase(1Φ) Three phase(3Φ)	
Frequency(Hz)	50/60Hz	
Input voltage(V)	Single phase(1Φ): 100V, 110V, 120V (TL-1) 200V, 220V, 240V (TL-2) 380V, 400V, 415V, 440V, 480V (TL-14) Three phase(3Φ): Open delta: 100V, 110V, 120V (TL-31) Open delta, Wye: 200V, 220V, 240V (TL-3,32) Wye: 380V, 400V, 415V, 440V, 480V (TL-33, 34) Custom voltage specifications available	
The adjustment of output voltage(%)	100%, 117%, 136%, 200% Custom voltage specifications available	
Max amps(A)	2~2000A Custom current specifications available	
Load(KVA)	0.3~1700KVA Larger load available	
Power factor	0.95	
Total Harmonic Distortion (THD)	0	
Efficiency	>98%	
Insulation level	F (155°C) , H (180°C) (depend on specification)	
Noise level	<40dB	
Temperature	-20~+50°C (For detailed information, please refer to Figure C.)	
Humidity	0- 95% Non-condensing	
Overload capacity	1000%(<1s)	
International protection marking	IP20	
International certificates	 EU CE Certification  EN/IEC 61558-1  EN/IEC 61558-2-13	
Wiring materials compliant with international standards	 UL E84081  UL E84201  JIS 3202  NEMA MW  IEC 60317	
Options※	V: Voltmeter A: Ammeter D: Digital power meter B: Molded Case Circuit Breaker, MCCB F, non-L type: Fuses F, L type: Fan W: Casters/Wheels I: Indicator lights -E: IP20 Enclosure N: Wires + Sockets + Plugs T: Terminal protective cover P: Power meter R: Remote control	

※: Fully equipped test sets (A) includes a Voltmeter (V), Ammeter (A), Digital power Meter (D) (suitable for three-phase use), Molded Case Circuit Breaker, MCCB (B), Fuse (F, Non-L Type), Fan (F, L Type), Casters/Wheels (W), Indicator lights (I), and an IP20 Enclosure (-E).

TL-SLIDAC

Specification

Single phase(1Φ),
Three phase(3Φ)
100%, 117%, 136%, 200%
2~2000A
0.3~1700KVA

TL-1 Family

Custom specifications available

Single phase(1Φ)
Input voltage: 100V, 110V, 120V
Max amps: 3~350A

The following table summarizes the specifications for basic input voltages of 100V, 110V, and 120V, along with the corresponding output voltage adjustment ranges. High-voltage (-V) and custom specifications are available.

Type*	Input				Output							Shaft rotation for increasing voltage®	Fig no.
	Volt.			Herz	Volt.			Max Amps#	Max KVA				
					100V	110V	120V		100V	110V	120V		
YN-103	100	110	120	50/60	0~118	0~129.8	0~141.6	3	0.3	0.33	0.36	Embedded(E)	80
YN-105	100	110	120	50/60	0~118	0~129.8	0~141.6	5	0.5	0.55	0.6	Embedded(E)	107
TL-105	100	110	120	50/60	0~118	0~129.8	0~141.6	5	0.5	0.55	0.6	Standard, Embedded(E)	164-215
TL-108	100	110	120	50/60	0~118	0~129.8	0~141.6	8	0.8	0.88	0.96	Standard, Embedded(E)	164-215
TL-110	100	110	120	50/60	0~118	0~129.8	0~141.6	10	1	1.1	1.2	Standard, Embedded(E)	164-215
TL-112	100	110	120	50/60	0~118	0~129.8	0~141.6	12	1.2	1.32	1.44	Standard, Embedded(E)	164-215
TL-115	100	110	120	50/60	0~118	0~129.8	0~141.6	15	1.5	1.65	1.8	Standard, Embedded(E)	164-215
TL-120	100	110	120	50/60	0~118	0~129.8	0~141.6	20	2	2.2	2.4	Standard, Embedded(E)	164-215
TL-125	100	110	120	50/60	0~118	0~129.8	0~141.6	25	2.5	2.75	3	Standard	240-300
TL-130	100	110	120	50/60	0~118	0~129.8	0~141.6	30	3	3.3	3.6	Standard	240-300
TL-135	100	110	120	50/60	0~118	0~129.8	0~141.6	35	3.5	3.85	4.2	Standard	240-300
TL-140	100	110	120	50/60	0~118	0~129.8	0~141.6	40	4	4.4	4.8	Standard	240-300
TL-150L	100	110	120	50/60	0~118	0~129.8	0~141.6	50	5	5.5	6	Standard	370-1
								~					
Max Amps	100	110	120	50/60	0~118	0~129.8	0~141.6	350	35	38.5	42	Standard	

#: When the output voltage exceeds the input voltage, the load current must be reduced.

*: Actual type naming and configuration are determined according to customer requirements.

Ⓔ: L-L

Ⓕ: Standard: clockwise rotation for voltage increase with the knob on the turntable side; Embedded: counterclockwise rotation for voltage increase with the knob on the base plate side, suffix "E".

Ⓖ: Supports voltage doubler (dual input) (VD).



Fig no. 80



Fig no. 107

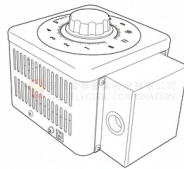


Fig no. 164-215 Standard

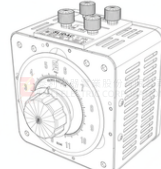


Fig no. 164-215 Embedded

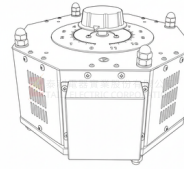


Fig no. 240-300

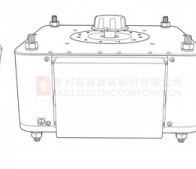


Fig no. 370-1

TL-SLIDAC

TL-2 Family

Custom specifications available

Single phase(1Φ)

Input voltage: 200V, 220V, 240V

Max amps: 2~900A

The following table summarizes the specifications for basic input voltages of 200V, 220V, and 240V, along with the corresponding output voltage adjustment ranges. It also supports 100V, 110V, and 120V voltage doubler (dual input) (VD). High-voltage (-V) and custom specifications are available.

Type*	Input				Output							Shaft rotation for increasing voltage [¶]	Fig no.
	Volt. [°]			Herz	Volt.			Max Amps#	Max KVA				
					200V	220V	240V		200V	220V	240V		
YN-202	200	220	240	50/60	0~236	0~259.6	0~283.2	2	0.4	0.44	0.48	Embedded(E)	107
TL-202	200	220	240	50/60	0~236	0~259.6	0~283.2	2	0.4	0.44	0.48	Standard, Embedded(E)	164-215
TL-203	200	220	240	50/60	0~236	0~259.6	0~283.2	3	0.6	0.66	0.72	Standard, Embedded(E)	164-215
TL-205	200	220	240	50/60	0~236	0~259.6	0~283.2	5	1	1.1	1.2	Standard, Embedded(E)	164-215
TL-207	200	220	240	50/60	0~236	0~259.6	0~283.2	7	1.4	1.54	1.68	Standard, Embedded(E)	164-215
TL-210	200	220	240	50/60	0~236	0~259.6	0~283.2	10	2	2.2	2.4	Standard, Embedded(E)	164-215
TL-215	200	220	240	50/60	0~236	0~259.6	0~283.2	15	3	3.3	3.6	Standard, Embedded(E)	164-215
TL-220	200	220	240	50/60	0~236	0~259.6	0~283.2	20	4	4.4	4.8	Standard	240-300
TL-225	200	220	240	50/60	0~236	0~259.6	0~283.2	25	5	5.5	6	Standard	240-300
TL-230	200	220	240	50/60	0~236	0~259.6	0~283.2	30	6	6.6	7.2	Standard	240-300
TL-235	200	220	240	50/60	0~236	0~259.6	0~283.2	35	7	7.7	8.4	Standard	240-300
TL-235	200	220	240	50/60	0~236	0~259.6	0~283.2	35	7	7.7	8.4	Standard	370-1
TL-240L	200	220	240	50/60	0~236	0~259.6	0~283.2	40	8	8.8	9.6	Standard	370-1
TL-250L	200	220	240	50/60	0~236	0~259.6	0~283.2	50	10	11	12	Standard	370-1
								~					
Max Amps	200	220	240	50/60	0~236	0~259.6	0~283.2	900	180	198	216	Standard	

#: When the output voltage exceeds the input voltage, the load current must be reduced.

*: Actual type naming and configuration are determined according to customer requirements.

°: L-L

¶: Standard: clockwise rotation for voltage increase with the knob on the turntable side; Embedded: counterclockwise rotation for voltage increase with the knob on the base plate side, suffix "E".

¶: Supports voltage doubler (dual input) (VD).



Fig no. 107

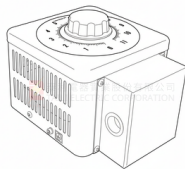


Fig no. 164-215 Standard

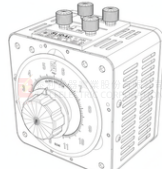


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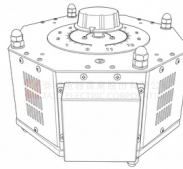


Fig no. 240-300

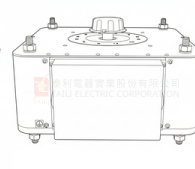


Fig no. 370-1

TL-SLIDAC

TL-14 Family

Custom specifications available

Single phase(1Φ)

Input voltage: 380V, 400V, 415V,
440V, 480V

Max amps: 1~900A

The following table summarizes the specifications for basic input voltages of 380V, 400V, 415V, 440V, and 480V, along with the corresponding output voltage adjustment ranges. It also supports 190V, 200V, 208V, 220V, and 240V voltage-doubler (dual input) (VD). High-voltage (-V) and custom specifications are available.

Type*	Input						Output										Shaft rotation for increasing voltage [Ⓢ]	Fig no.	
	Volt. [Ⓢ]					Herz	Volt.					Max Amps#	Max KVA						
TL-1401	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	1	0.38	0.4	0.42	0.44	0.48	Standard, Embeded(E)	164-215
TL-1402	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	2	0.76	0.8	0.83	0.88	0.96	Standard, Embeded(E)	164-215
TL-1403	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	3	1.14	1.2	1.25	1.32	1.44	Standard, Embeded(E)	164-215
TL-1405	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	5	1.9	2	2.08	2.2	2.4	Standard, Embeded(E)	164-215
TL-1407	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	7	2.66	2.8	2.91	3.08	3.36	Standard, Embeded(E)	164-215
TL-1410	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	10	3.8	4	4.15	4.4	4.8	Standard	240-300
TL-1415	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	15	5.7	6	6.23	6.6	7.2	Standard	240-300
TL-1420	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	20	7.6	8	8.3	8.8	9.6	Standard	240-300
TL-1425L	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	25	9.5	10	10.38	11	12	Standard	370-1
												~							
Max Amps	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	900	342	360	373.5	396	432	Standard	

#: When the output voltage exceeds the input voltage, the load current must be reduced.

*: Actual type naming and configuration are determined according to customer requirements.

Ⓢ: L-L

Ⓢ: Standard: clockwise rotation for voltage increase with the knob on the turntable side; Embded: counterclockwise rotation for voltage increase with the knob on the base plate side, suffix "E".

Ⓢ: Supports voltage doubler (dual input) (VD).

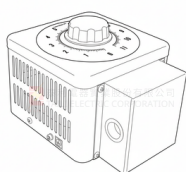


Fig no. 164-215 Standard

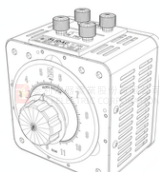


Fig no. 164-215 Embded

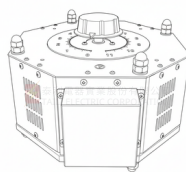


Fig no. 240-300

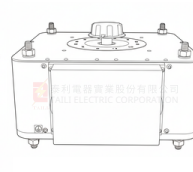


Fig no. 370-1

TL-SLIDAC

TL-31 Family

Custom specifications available

Three phase(3Φ)

Input voltage: 100V, 110V, 120V

Max amps: 5~350A

The following table summarizes the specifications for basic Open Delta (-D) wiring with input voltages of 100V, 110V, and 120V, along with the corresponding output voltage adjustment ranges.

Type*	Input				Output							Shaft rotation for increasing voltage®	Fig no.
	Volt.⁵			Herz	Volt.			Max Amps#	Max KVA				
					100V	110V	120V		100V	110V	120V		
TL-3105-D	100	110	120	50/60	0~118	0~129.8	0~141.6	5	0.87	0.95	1.04	Standard, Embedded(E)	164-215
TL-3108-D	100	110	120	50/60	0~118	0~129.8	0~141.6	8	1.39	1.52	1.66	Standard, Embedded(E)	164-215
TL-3110-D	100	110	120	50/60	0~118	0~129.8	0~141.6	10	1.73	1.91	2.08	Standard, Embedded(E)	164-215
TL-3112-D	100	110	120	50/60	0~118	0~129.8	0~141.6	12	2.08	2.29	2.49	Standard, Embedded(E)	164-215
TL-3115-D	100	110	120	50/60	0~118	0~129.8	0~141.6	15	2.6	2.86	3.12	Standard, Embedded(E)	164-215
TL-3120-D	100	110	120	50/60	0~118	0~129.8	0~141.6	20	3.46	3.81	4.16	Standard, Embedded(E)	164-215
TL-3125-D	100	110	120	50/60	0~118	0~129.8	0~141.6	25	4.33	4.76	5.2	Standard	240-300
TL-3130-D	100	110	120	50/60	0~118	0~129.8	0~141.6	30	5.2	5.72	6.24	Standard	240-300
TL-3135-D	100	110	120	50/60	0~118	0~129.8	0~141.6	35	6.06	6.67	7.27	Standard	240-300
TL-3140-D	100	110	120	50/60	0~118	0~129.8	0~141.6	40	6.93	7.62	8.31	Standard	240-300
TL-3150L-D	100	110	120	50/60	0~118	0~129.8	0~141.6	50	8.66	9.53	10.39	Standard	370-1
								~					
Max Amps	100	110	120	50/60	0~118	0~129.8	0~141.6	350	60.62	66.68	72.74	Standard	

#: When the output voltage exceeds the input voltage, the load current must be reduced.

*: Actual type naming and configuration are determined according to customer requirements.

Ⓔ: L-L

Ⓕ: Standard: clockwise rotation for voltage increase with the knob on the turntable side; Embedded: counterclockwise rotation for voltage increase with the knob on the base plate side, suffix "E".

Ⓖ: Supports voltage doubler (dual input) (VD).

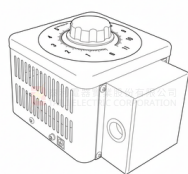


Fig no. 164-215 Standard

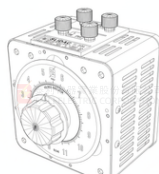


Fig no. 164-215 Embedded

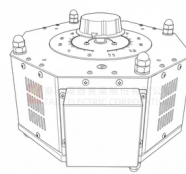


Fig no. 240-300

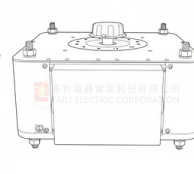


Fig no. 370-1

TL-SLIDAC

TL-3, 32 Family

Custom specifications available

Three phase(3Φ) Wye, Open delta
Input voltage: 200V, 220V, 240V
Max amps: 2~900A

The following table summarizes the specifications for basic Wye and Open Delta wiring with input voltages of 200V, 220V, and 240V, along with the corresponding output voltage adjustment ranges. Open Delta (-D) wiring also supports 100V, 110V, and 120V voltage doubler (dual input) (VD). High-voltage (-V) and custom specifications are available.

Type*	Input				Output							Shaft rotation for increasing voltage [¶]	Fig no.
	Volt. ⁵⁸			Herz	Volt.			Max Amps#	Max KVA				
					200V	220V	240V		200V	220V	240V		
TL-305	200	220	240	50/60	0~236	0~259.6	0~283.2	5	1.73	1.91	2.08	Standard	164-215-3PY
TL-308	200	220	240	50/60	0~236	0~259.6	0~283.2	8	2.77	3.05	3.33	Standard	164-215-3PY
TL-310	200	220	240	50/60	0~236	0~259.6	0~283.2	10	3.46	3.81	4.16	Standard	164-215-3PY
TL-312	200	220	240	50/60	0~236	0~259.6	0~283.2	12	4.16	4.57	4.99	Standard	164-215-3PY
TL-315	200	220	240	50/60	0~236	0~259.6	0~283.2	15	5.2	5.72	6.24	Standard	164-215-3PY
TL-320	200	220	240	50/60	0~236	0~259.6	0~283.2	20	6.93	7.62	8.31	Standard	240-300-3PY
TL-325	200	220	240	50/60	0~236	0~259.6	0~283.2	25	8.66	9.53	10.39	Standard	240-300-3PY
TL-330	200	220	240	50/60	0~236	0~259.6	0~283.2	30	10.39	11.43	12.47	Standard	240-300-3PY
TL-335	200	220	240	50/60	0~236	0~259.6	0~283.2	35	12.12	13.34	14.55	Standard	240-300-3PY
TL-340	200	220	240	50/60	0~236	0~259.6	0~283.2	40	13.86	15.24	16.63	Standard	240-300-3PY
TL-350L	200	220	240	50/60	0~236	0~259.6	0~283.2	50	17.32	19.05	20.78	Standard	370-3PY
								~					
Max Amps	200	220	240	50/60	0~236	0~259.6	0~283.2	900	311.76	342.94	374.11	Standard	

#: When the output voltage exceeds the input voltage, the load current must be reduced.

*: Actual type naming and configuration are determined according to customer requirements.

⁵⁸: L-L

[¶]: Standard: clockwise rotation for voltage increase with the knob on the turntable side; Embedded: counterclockwise rotation for voltage increase with the knob on the base plate side, suffix "E".

[¶]: Supports voltage doubler (dual input) (VD).

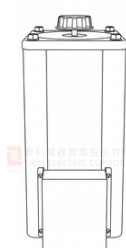


Fig no. 164-215-3PY

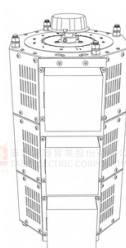


Fig no. 240-300-3PY

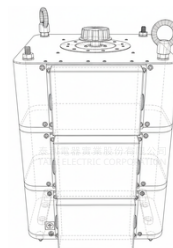


Fig no. 370-3PY

TL-SLIDAC

Type*	Input				Output							Shaft rotation for increasing voltage [¶]	Fig no.
	Volt. ⁵⁰			Herz	Volt.			Max Amps#	Max KVA				
					200V	220V	240V		200V	220V	240V		
TL-302-D	200	220	240	50/60	0~236	0~259.6	0~283.2	2	0.69	0.76	0.83	Embedded(E)	164-215
TL-303-D	200	220	240	50/60	0~236	0~259.6	0~283.2	3	1.04	1.14	1.25	Standard, Embedded(E)	164-215
TL-305-D	200	220	240	50/60	0~236	0~259.6	0~283.2	5	1.73	1.91	2.08	Standard, Embedded(E)	164-215
TL-307-D	200	220	240	50/60	0~236	0~259.6	0~283.2	7	2.42	2.67	2.91	Standard, Embedded(E)	164-215
TL-310-D	200	220	240	50/60	0~236	0~259.6	0~283.2	10	3.46	3.81	4.16	Standard, Embedded(E)	164-215
TL-315-D	200	220	240	50/60	0~236	0~259.6	0~283.2	15	5.2	5.72	6.24	Standard, Embedded(E)	164-215
TL-320-D	200	220	240	50/60	0~236	0~259.6	0~283.2	20	6.93	7.62	8.31	Standard	240-300
TL-325-D	200	220	240	50/60	0~236	0~259.6	0~283.2	25	8.66	9.53	10.39	Standard	240-300
TL-330-D	200	220	240	50/60	0~236	0~259.6	0~283.2	30	10.39	11.43	12.47	Standard	240-300
TL-335-D	200	220	240	50/60	0~236	0~259.6	0~283.2	35	12.12	13.34	14.55	Standard	240-300
TL-340L-D	200	220	240	50/60	0~236	0~259.6	0~283.2	40	13.86	15.24	16.63	Standard	370-1
TL-350L-D	200	220	240	50/60	0~236	0~259.6	0~283.2	50	17.32	19.05	20.78	Standard	370-1
								~					
Max Amps	200	220	240	50/60	0~236	0~259.6	0~283.2	900	311.76	342.94	374.11	Standard	

#: When the output voltage exceeds the input voltage, the load current must be reduced.

*: Actual type naming and configuration are determined according to customer requirements.

50: L-L

¶: Standard: clockwise rotation for voltage increase with the knob on the turntable side; Embedded: counterclockwise rotation for voltage increase with the knob on the base plate side, suffix "E".

¶: Supports voltage doubler (dual input) (VD).

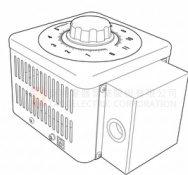


Fig no. 164-215 Standard

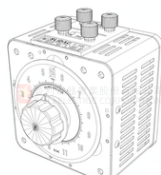


Fig no. 164-215 Embedded

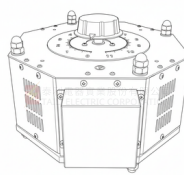


Fig no. 240-300

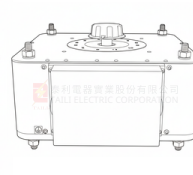


Fig no. 370-1

TL-SLIDAC

TL-33, 34 Family

Custom specifications available

Three phase(3Φ) Wye
Input voltage: 380V, 400V, 415V,
440V, 480V
Max amps: 5~900A

The following table summarizes the specifications for basic WYE wiring with input voltages of 380V, 400V, 415V, 440V, and 480V, along with the corresponding output voltage adjustment ranges. It also supports 190V, 200V, 208V, 220V, and 240V voltage doubler (dual input) (VD). High-voltage (-V) and custom specifications are available.

Type*	Input						Output										Shaft rotation for increasing voltage*	Fig no.	
	Volt. ^{5a}					Herz	Volt.					Max Amps#	Max KVA						
							380V	400V	415V	440V	480V		380V	400V	415V	440V			480V
TL-3402	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	2	1.32	1.39	1.44	1.52	1.66	Standard	164-215-3PY
TL-3403	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	3	1.97	2.08	2.16	2.29	2.49	Standard	164-215-3PY
TL-3405	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	5	3.29	3.46	3.59	3.81	4.16	Standard	164-215-3PY
TL-3408	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	8	5.27	5.54	5.75	6.1	6.65	Standard	164-215-3PY
TL-3410	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	10	6.58	6.93	7.19	7.62	8.31	Standard	164-215-3PY
TL-3415	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	15	9.87	10.39	10.78	11.43	12.47	Standard	240-300-3PY
TL-3420	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	20	13.16	13.86	14.38	15.24	16.63	Standard	240-300-3PY
TL-3425	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	25	16.45	17.32	17.97	19.05	20.78	Standard	240-300-3PY
TL-3430	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	30	19.74	20.78	21.56	22.86	24.94	Standard	240-300-3PY
TL-3435	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	35	23.04	24.25	25.16	26.67	29.1	Standard	240-300-3PY
TL-3435L	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	35	23.04	24.25	25.16	26.67	29.1	Standard	370-3PY
TL-3440L	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	40	26.33	27.71	28.75	30.48	33.25	Standard	370-3PY
TL-3450L	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	50	32.91	34.64	35.94	38.1	41.57	Standard	370-3PY
												~							
Max Amps	380	400	415	440	480	50/60	0~448.4	0~472	0~489.7	0~519.2	0~566.4	2000	1316.32	1385.6	1437.56	1524.16	1662.72	Standard	

#: When the output voltage exceeds the input voltage, the load current must be reduced.

*: Actual type naming and configuration are determined according to customer requirements.

^{5a}: L-L

^g: Standard: clockwise rotation for voltage increase with the knob on the turntable side; Embedded: counterclockwise rotation for voltage increase with the knob on the base plate side, suffix "E".

^g: Supports voltage doubler (dual input) (VD).

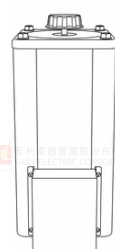


Fig no. 164-215-3PY

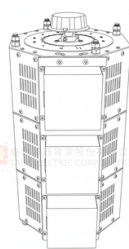


Fig no. 240-300-3PY

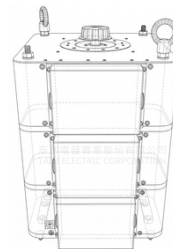


Fig no. 370-3PY



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