



Modicon Transformer

Single phase transformers
230 to 400 Vac, 25 to 2500 VA
Modicon ABT7, ABL6



Modicon

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Life Is On



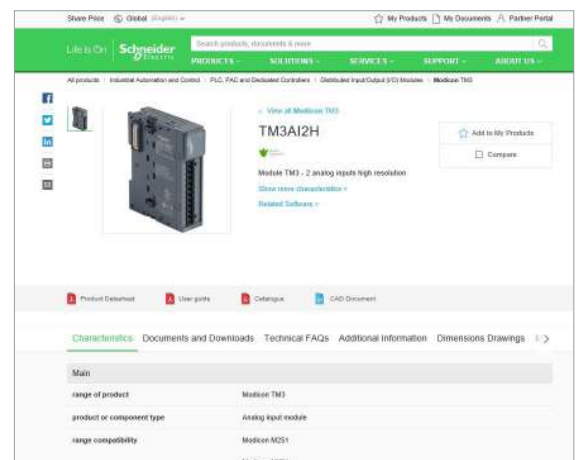
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References

Modicon TM3 I/O expansion modules for Modicon controllers Analog I/O modules

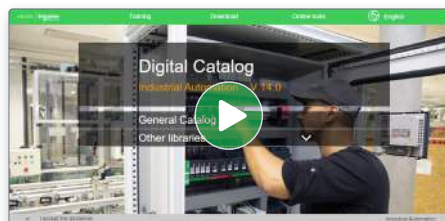
| Reference | Modicon TM3 analog input module | Modicon TM3 analog output module | Modicon TM3 digital input module | Modicon TM3 digital output module | Modicon TM3 relay output module | Modicon TM3 relay output module with diodes |
|--|--|--|--|--|--|--|
| 24-bit digital input | 24-bit digital input | 24-bit digital input | 24-bit digital input | 24-bit digital input | 24-bit digital input | 24-bit digital input |
| 24-bit digital output | 24-bit digital output | 24-bit digital output | 24-bit digital output | 24-bit digital output | 24-bit digital output | 24-bit digital output |
| 24-bit digital output with diodes | 24-bit digital output with diodes | 24-bit digital output with diodes | 24-bit digital output with diodes | 24-bit digital output with diodes | 24-bit digital output with diodes | 24-bit digital output with diodes |
| 24-bit digital output with diodes and optoisolators | 24-bit digital output with diodes and optoisolators | 24-bit digital output with diodes and optoisolators | 24-bit digital output with diodes and optoisolators | 24-bit digital output with diodes and optoisolators | 24-bit digital output with diodes and optoisolators | 24-bit digital output with diodes and optoisolators |
| 24-bit digital output with diodes and optoisolators and relays | 24-bit digital output with diodes and optoisolators and relays | 24-bit digital output with diodes and optoisolators and relays | 24-bit digital output with diodes and optoisolators and relays | 24-bit digital output with diodes and optoisolators and relays | 24-bit digital output with diodes and optoisolators and relays | 24-bit digital output with diodes and optoisolators and relays |



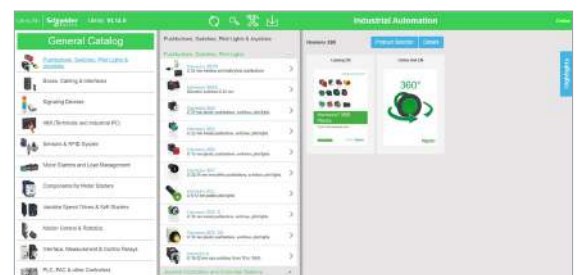
Each commercial reference presented in a catalog contains a hyperlink. Click on it to obtain the technical information of the product:

- Characteristics, Dimensions and drawings, Mounting and clearance, Connections and schemas, Performance curves
- Product image, Instruction sheet, User guide, Product certifications, End of life manual

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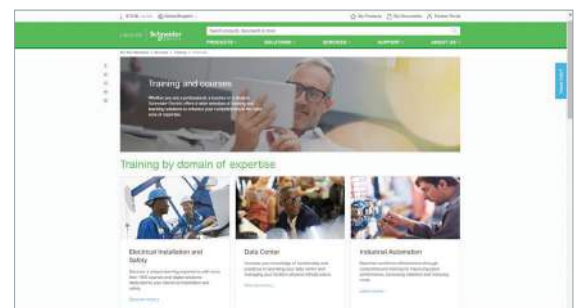


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Modicon® Transformer

Single phase transformers 230 to 400 Vac, 25 to 2500 VA

Modicon ABT7, ABL6

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Modicon Transformer

Single phase transformer 230 to 400 Vac,
25 to 2500 VA
Modicon ABT7, ABL6

| | | | | | | | |
|-------------------|-----------------|-----------------------------|--------|---------|---------|-----------------------------|-------------|
| Input voltage | 230 Vac, ± 15 V | 230 Vac and 400 Vac, ± 15 V | | | | 230 Vac and 400 Vac, ± 15 V | |
| Output voltage | 24 Vac | 12 Vac | 24 Vac | 115 Vac | 230 Vac | 2 x 24 Vac | 2 x 115 Vac |
| Secondary winding | Single winding | Single winding | | | | Double winding | |



| | | | | | |
|--|---|--|--------------------------------|--|--------------------------------|
| Connection to world-wide line supplies | United States: 120 V (in phase-to-neutral) | - | - | - | - |
| | United States: 240 V (in phase-to-phase) | - | 2-phase (L1-L2) connection | - | 2-phase (L1-L2) connection |
| | Europe: 230 V (in phase-to-neutral) | Single-phase (N-L1) connection | Single-phase (N-L1) connection | - | Single-phase (N-L1) connection |
| | Europe: 400 V (in phase-to-phase) | - | 2-phase (L1-L2) connection | - | 2-phase (L1-L2) connection |
| Applications | SELV transformer (Safety Extra Low Voltage) | SELV transformer (Safety Extra Low Voltage) | Isolation transformer | SELV transformer (Safety Extra Low Voltage) | Isolation transformer |
| Secondary winding | Single winding | Single winding | - | Double winding | - |
| Signalling | - | - | - | Presence of input voltage by LED (up to 320 VA) | - |
| Certifications | - Cc marking | - Cc marking | - Cc marking | - Cc marking | - Cc marking |
| | - EAC | - EAC | - EAC | - EAC | - EAC |
| Conformity to standards (1) | - EN 61558-2-6 | - EN 61558-2-6 | - EN 61558-2-4 | - EN 61558-2-6 | - EN 61558-2-4 |
| | - EN 61558-1 | - EN 61558-1 | - EN 61558-1 | - EN 61558-1 | - EN 61558-1 |
| Mounting | - EN 62041 | - EN 62041 | - EN 62041 | - EN 62041 | - EN 62041 |
| | - UL 506 | - UL 506 | - UL 506 | - UL 506 | - UL 506 |
| Mounting | Fixing on panel (screw) | Fixing on panel (screw) or on omega rail (option depending on model) | | Fixing on omega rail (depending on model) or panel (screw) | |

| Transformer type | Range | ABT7ES Economic range | ABL6TS Optimized range | | | | ABT7PDU Universal range |
|------------------|----------|-----------------------|------------------------|------------|------------|------------|-------------------------|
| | | Operating temperature | 50 °C | | | | 60 °C |
| Nominal power | 25 VA | - | ABL6TS02J | ABL6TS02B | ABL6TS02G | ABL6TS02U | - |
| | 40 VA | ABT7ESM004B | ABL6TS04J | ABL6TS04B | ABL6TS04G | ABL6TS04U | ABT7PDU004B |
| | 63 VA | ABT7ESM006B | ABL6TS06J | ABL6TS06B | ABL6TS06G | ABL6TS06U | ABT7PDU006B |
| | 100 VA | ABT7ESM010B | ABL6TS10J | ABL6TS10B | ABL6TS10G | ABL6TS10U | ABT7PDU010B |
| | 160 VA | ABT7ESM016B | ABL6TS16J | ABL6TS16B | ABL6TS16G | ABL6TS16U | ABT7PDU016B |
| | 250 VA | ABT7ESM025B | ABL6TS25J | ABL6TS25B | ABL6TS25G | ABL6TS25U | ABT7PDU025B |
| | 320 VA | ABT7ESM032B | - | - | - | - | ABT7PDU032B |
| | 400 VA | ABT7ESM040B | - | ABL6TS40B | ABL6TS40G | ABL6TS40U | ABT7PDU040B |
| | 630 VA | - | - | ABL6TS63B | ABL6TS63G | ABL6TS63U | ABT7PDU063B |
| | 1 000 VA | - | - | ABL6TS100B | ABL6TS100G | ABL6TS100U | ABT7PDU100B |
| | 1 600 VA | - | - | ABL6TS160B | ABL6TS160G | ABL6TS160U | ABT7PDU160B |
| | 2 500 VA | - | - | ABL6TS250B | ABL6TS250G | ABL6TS250U | ABT7PDU250B |

| | | | |
|-------|----|----|----|
| Pages | 10 | 10 | 11 |
|-------|----|----|----|

(1) Consult detail on conformity to standards for each reference in the product data sheet, click on [product reference](#) to open it.

Try the configuration tool on our website



Modicon PLC configurator

- > Select your architecture of controller and I/O by
- Usage and application
- Connectivity, services and IIOT (Protocols, Web and communication services)
- I/O and power supply

Modicon Transformer

Single phase transformers 230 to 400 Vac,
25 to 2500 VA
Modicon ABT7, ABL6

Presentation

Modicon ABT7/ABL6 single-phase transformers are designed to supply control circuits in electrical equipment from a 230 Vac or 400 Vac supply (depending on the model) at 50 or 60 Hz. ± 15 V connectors at the primary ensure adaptation to the actual values of the supply networks to which they are connected. Modicon single-phase transformers are available in 3 ranges: **ABT7ES** Economic, **ABL6TS** Optimized, and **ABT7PDU** Universal.

ABT7ES Economic range

Transformers 230 V, Single winding

The single-winding transformers are primarily designed for repetitive applications and offers the following as standard:

- 230 Vac ± 15 V input voltage
- 24 Vac output voltage
- Panel mounting using 4 screws
- Operating temperature of 40°C (104°F)

ABL6TS Optimized range

Transformers 230/400 V, Single winding

The single-winding transformers are designed for standard applications:

- 230 V/400 Vac ± 15 V input voltage
- 12 V, 24 V, 115 V or 230 Vac output voltage
- Panel mounting, using 4 screws (or clip-on rail-mounting option available depending on the model)
- Operating temperature of 50°C (122°F)
- cURus certifications

ABT7PDU Universal range

Transformers 230/400 V, Double winding

Transformers with double winding feature an innovative design and offer high-level characteristics (depending on the model) such as:

- 230 V/400 Vac ± 15 V input voltage
- 2 x 115 V or 2 x 24 Vac output voltage
- Clip-on rail mounting (depending on the model) or panel mounting (using 4 screws)
- Series or parallel connection of secondary winding and grounding via internal jumpers
- LED indicator
- Operating temperature of 60°C (140°F)
- cURus certification

Those components are concealed behind a plastic cover making it easier to integrate the Modicon transformers in control cabinets.

Protection

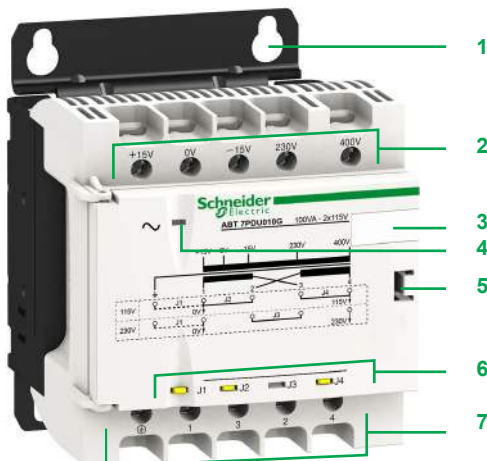
The transformers can be protected against short-circuits by means of fuses or thermal-magnetic circuit-breakers mounted on the secondary.

For operation in compliance with UL standards, short-circuit protection must be achieved using fuses (UL approved) mounted on the primary.

Where the control circuit is isolated from the ground (IT system), a leakage detector will indicate any accidental ground faults.

Description

- 1 Mounted using 4 screws or, depending on the model for ABT7PDU types (Universal range), by clipping on a 35 mm (1.37 in) 5 rail
- 2 Screw terminals with ± 15 V connectors for connection of the AC input voltage
- 3 Clip-on marker tag or self-adhesive marker tag holder AR1SB3
- 4 LED (green) indicating presence of input voltage (depending on ABT7PDU types)
- 5 Access to the jumpers for selecting the secondary connection (opened using a screwdriver)
- 6 Windows (depending on ABT7PDU types) for viewing the connection via jumpers of the:
 - 0 V to ground (J1 jumper)
 - Series connection, totally freeing up the "customer" secondary wiring capacity (J3 jumper)
 - Parallel connection, totally freeing up the "customer" secondary wiring capacity (J2 and J4 jumpers)
- 7 Screw terminals for connection of the AC output voltage



ABT7PDU002...7PDU032

Modicon Transformer

Single phase transformers 230 to 400 Vac,
25 to 2500 VA
Modicon ABT7, ABL6

Selection

Modicon ABT7/ABL6 transformers are characterized by the apparent nominal power they can supply continuously. However, they are also designed to supply, when necessary, significantly higher powers, such as contactor inrush peaks. Contactor inrush peaks can reach 10 to 20 times the required holding current. This leads to the transformer being oversized in relation to the continuous power it has to supply. The transformer must be sized so that the voltage drop at its terminals, caused by the inrush, remains within the permissible limits for the contactor to close properly.

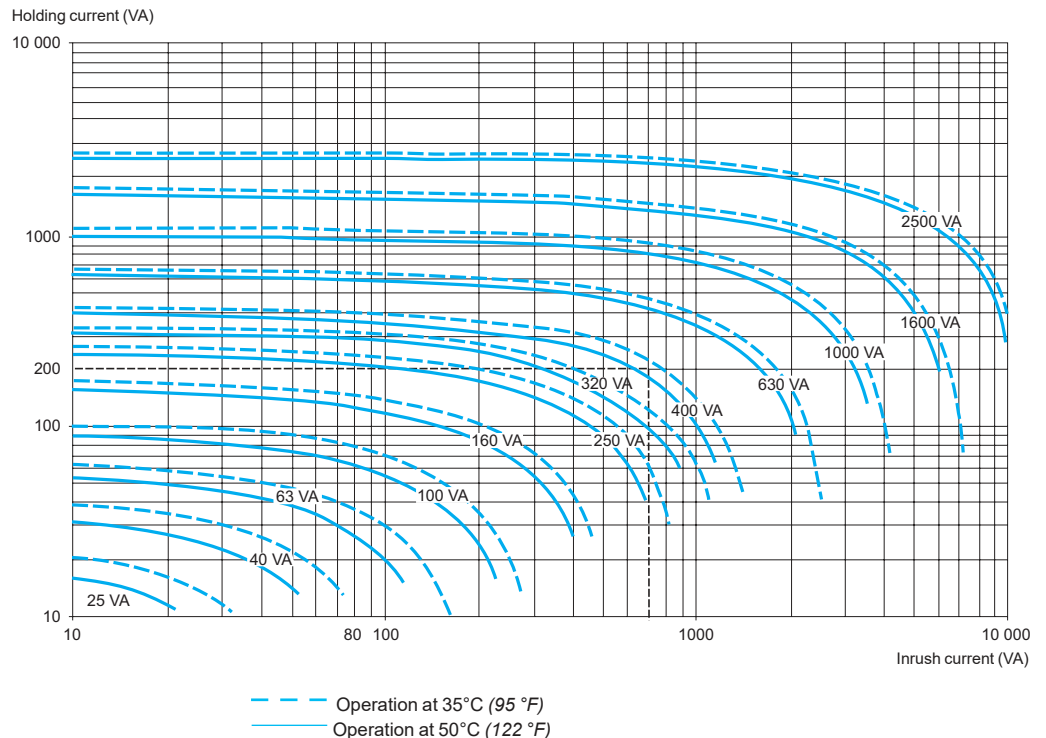
The two power values that need to be taken into account to determine which transformer rating to use are therefore:

- The continuous power the transformer has to supply
- The maximum inrush power it has to provide

In practice, only the sum of the holding currents and the contactor inrush current need to be considered.

For ABL6TS transformers (Optimized range), the graph below can be used to select the appropriate rating according to these two currents. This gives a maximum voltage drop of 5% at the moment of inrush, compatible with correct operation of the entire installation. However, these transformers have been designed for continuous operation at nominal load and at an ambient temperature of 50°C (122 °F). A reduction in the ambient temperature may uprate the transformer, which, in some cases, allows a lower rating to be used.

The graph below has been drawn up for ambient temperatures of 35...50°C (95...122 °F)



Example: A device with a total holding current of 200 VA and inrush current of the contactor of 700 VA can be supplied by a 630 VA transformer if it is used at an ambient temperature of 50°C (122 °F). A 400 VA transformer is sufficient if the ambient temperature is 35°C (95 °F).

Modicon Transformer

Single phase transformers 230 to 400 Vac,
25 to 2500 VA
Modicon ABT7, ABL6

ABT7ES Economic range

Recommended protection for the primary

Protection on the primary by fuse or thermal magnetic circuit breaker

| Transformer | | 230 Vac single-phase input voltage | | | |
|-------------|--------|------------------------------------|----------|--------------------|-------------------|
| Reference | Power | MDL fuses UL Listed (1) | aM fuses | TeSys GV2RT (2) | Acti9 IC60 (3) |
| ABT7ESM004B | 40 VA | 0.3 A | 0.25 A | GV2RT03 | 0.5 A D curve (4) |
| ABT7ESM006B | 63 VA | 0.4 A | 0.5 A | GV2RT03 | 0.5 A D curve (4) |
| ABT7ESM010B | 100 VA | 0.5 A | 0.5 A | GV2RT04 | 0.5 A D curve |
| ABT7ESM016B | 160 VA | 1 A | 1 A | GV2RT05 | 1 A D curve |
| ABT7ESM025B | 250 VA | 1.25 A | 2 A | GV2RT06 | 2 A D curve (4) |
| ABT7ESM032B | 320 VA | 1.5 A | 2 A | GV2RT06 | 2 A D curve (4) |
| ABT7ESM040B | 400 VA | 2 A | 2 A | GV2RT07 | 3 A D curve (4) |

Recommended protection for the secondary

Protection on the secondary by fuses of thermal circuit breaker

| Transformer | | 24 Vac secondary | | | |
|-------------|--------|------------------|----------|------------------------------------|----------------|
| Reference | Power | gG fuse (1) | aM fuses | TeSys GB2 (IEC/CSA-c/US) (2) | Acti9 IC60 (3) |
| ABT7ESM004B | 40 VA | 1 A | 1 A | GB2CD07 | 2 A C curve |
| ABT7ESM006B | 63 VA | 2 A | 2 A | GB2CD08 | 3 A C curve |
| ABT7ESM010B | 100 VA | 4 A | 4 A | GB2CD09 | 4 A C curve |
| ABT7ESM016B | 160 VA | 6 A | 6 A | GB2CD12 | 6 A C curve |
| ABT7ESM025B | 250 VA | 10 A | 10 A | GB2CD16 | 10 A C curve |
| ABT7ESM032B | 320 VA | 12 A | 12 A | GB2CD20 | 16 A C curve |
| ABT7ESM040B | 400 VA | 16 A | 16 A | GB2CD21 | 16 A C curve |

(1) For operation in compliance with UL.

(2) More information on TeSys GV2 offer, consult our [website](#). More information on TeSys GB2 offer, consult our [website](#).

(3) Check on our [website](#) for the exact reference. For installation in North America, please select a UL489 compliant circuit breaker.

(4) Protection on the secondary is necessary.

ABL6TS Optimized range

Recommended protection for the primary

Protection on the primary by fuse or thermal magnetic circuit breaker

| Transformer | | 230 Vac single-phase input voltage | | | | | 400 Vac single-phase input voltage | | | | |
|-------------|--------|------------------------------------|-------------|---|--------------------|------------------|------------------------------------|-------------|--|------------------------|-------------------|
| Reference | Power | MDL fuses UL listed (1) | aM fuses | TeSys GB2 (IEC/ CSA-c/ US) (2) | TeSys GV2RT (2) | Acti9 IC60 (3) | MDL fuses UL Listed (1) | aM fuses | TeSys GB2 (IEC/ CSA-c/US) (2) | TeSys GV2RT (2) (3) | Acti9 IC60 (3) |
| ABL6TS02J | 25 VA | 0.18 A | 0.16 A | – | – | – | 0.25 A | 0.16 A | – | – | – |
| ABL6TS04J | 40 VA | 0.25 A | 0.25 A | GB2DB05 | GV2RT03 | 0.5 AD curve (4) | 0.25 A | 0.16 A | – | – | – |
| ABL6TS06J | 63 VA | 0.37 A | 0.5 A | GB2DB05 | GV2RT03 | 0.5 AD curve (4) | 0.25 A | 0.25 A | – | – | – |
| ABL6TS10J | 100 VA | 0.5 A | 0.5 A | GB2DB06 | GV2RT04 | 1 AD curve (4) | 0.3 A | 0.5 A | GB2DB05 | GV2RT03 | 0.5 AD curve |
| ABL6TS16J | 160 VA | 1 A | 1 A | GB2DB07 | GV2RT05 | 2 AD curve (4) | 0.5 A | 0.5 A | GB2DB06 | GV2RT04 | 1 AD curve |
| ABL6TS25J | 250 VA | 1.25 A | 2 A | GB2DB07 | GV2RT06 | 2 AD curve (4) | 0.75 A | 1 A | GB2DB06 | GV2RT05 | 1 AD curve |

Recommended protection for the secondary

Protection on the secondary by fuses of thermal circuit breaker

| Transformer | | 12 Vac secondary | | | |
|-------------|--------|------------------|-------------|---------------------------------|----------------|
| Reference | Power | gG fuse (1) | aM fuses | TeSys GB2 (IEC/CSA-c/US) (2) | Acti9 IC60 (3) |
| ABL6TS02J | 25 VA | 2 A | 2 A | GB2CD07 | 2 A C curve |
| ABL6TS04J | 40 VA | 4 A | 4 A | GB2CD08 | 3 A C curve |
| ABL6TS06J | 63 VA | 6 A | 6 A | GB2CD10 | 6 A C curve |
| ABL6TS10J | 100 VA | 8 A | 8 A | GB2CD14 | 10 A C curve |
| ABL6TS16J | 160 VA | 12 A | 12 A | GB2CD20 | 16 A C curve |
| ABL6TS25J | 250 VA | 20 A | 20 A | GB2CD22 | 20 A C curve |

Recommended protection for the primary

Protection on the primary by fuse or thermal magnetic circuit breaker

| Transformer | | 230 Vac single-phase input voltage | | | | | 400 Vac single-phase input voltage | | | | |
|-------------|---------|------------------------------------|-------------|---|-----------------------|------------------|------------------------------------|-------------|--|------------------------|-------------------|
| Reference | Power | MDL fuses UL listed (1) | aM fuses | TeSys GB2 (IEC/ CSA-c/ US) (2) | TeSys GV2RT (2) | Acti9 IC60 (3) | MDL fuses UL Listed (1) | aM fuses | TeSys GB2 (IEC/ CSA-c/US) (2) | TeSys GV2RT (2) (3) | Acti9 IC60 (3) |
| ABL6TS02B | 25 VA | 0.18 A | 0.16 A | – | – | – | 0.25 A | 0.16 A | – | – | – |
| ABL6TS04B | 40 VA | 0.25 A | 0.25 A | GB2DB05 | GV2RT03 | 0.5 AD curve (4) | 0.25 A | 0.16 A | – | – | – |
| ABL6TS06B | 63 VA | 0.37 A | 0.5 A | GB2DB05 | GV2RT03 | 0.5 AD curve (4) | 0.25 A | 0.25 A | – | – | – |
| ABL6TS10B | 100 VA | 0.5 A | 0.5 A | GB2DB05 | GV2RT04 | 1 AD curve (4) | 0.3 A | 0.5 A | GB2DB05 | GV2RT03 | 0.5 AD curve |
| ABL6TS16B | 160 VA | 1 A | 1 A | GB2DB06 | GV2RT05 | 2 AD curve (4) | 0.5 A | 0.5 A | GB2DB06 | GV2RT04 | 1 AD curve |
| ABL6TS25B | 250 VA | 1.25 A | 2 A | GB2DB07 | GV2RT06 | 2 AD curve (4) | 0.75 A | 1 A | GB2DB06 | GV2RT05 | 1 AD curve |
| ABL6TS40B | 400 VA | 2 A | 2 A | GB2DB09 | GV2RT07 | 3 AD curve (4) | 1.5 A | 1 A | GB2DB07 | GV2RT06 | 2 AD curve |
| ABL6TS63B | 630 VA | 3 A | 4 A | GB2DB12 | GV2RT08 | 6 AD curve (4) | 2.5 A | 2 A | GB2DB09 | GV2RT07 | 3 AD curve |
| ABL6TS100B | 1000 VA | 5 A | 6 A | GB2DB16 | GV2RT10 | 10 AD curve (4) | 3.5 A | 4 A | GB2DB10 | GV2RT08 | 6 AD curve |
| ABL6TS160B | 1600 VA | 8 A | 8 A | GB2DB20 | GV2RT14 | 16 AD curve (4) | 5 A | 4 A | GB2DB14 | GV2RT10 | 10 AD curve |
| ABL6TS250B | 2500 VA | – | 12 A | GB2DB22 | GV2RT16 | 20 AD curve (4) | 7.5 A | 8 A (4) | GB2DB20 | GV2RT14 | 10 AD curve |

Recommended protection for the secondary

Protection on the secondary by fuses of thermal circuit breaker

| Transformer | | 24 Vac secondary | | | |
|-------------|---------|------------------|-------------|---------------------------------|----------------|
| Reference | Power | gG fuse (1) | aM fuses | TeSys GB2 (IEC/CSA-c/US) (2) | Acti9 IC60 (3) |
| ABL6TS02B | 25 VA | 1 A | 1 A | GB2CD06 | 1 A C curve |
| ABL6TS04B | 40 VA | 1 A | 1 A | GB2CD07 | 2 A C curve |
| ABL6TS06B | 63 VA | 2 A | 2 A | GB2CD08 | 3 A C curve |
| ABL6TS10B | 100 VA | 4 A | 4 A | GB2CD09 | 4 A C curve |
| ABL6TS16B | 160 VA | 6 A | 6 A | GB2CD12 | 6 A C curve |
| ABL6TS25B | 250 VA | 10 A | 10 A | GB2CD16 | 10 A C curve |
| ABL6TS40B | 400 VA | 16 A | 16 A | GB2CD21 | 16 A C curve |
| ABL6TS63B | 630 VA | 25 A | 25 A | – | 25 A C curve |
| ABL6TS100B | 1000 VA | 40 A | 40 A | – | 40 A C curve |
| ABL6TS160B | 1600 VA | 63 A | 63 A | – | 63 A C curve |
| ABL6TS250B | 2500 VA | 100 A | 100 A | – | – |

(1) For operation in compliance with UL.

(2) More information on TeSys GB2 offer, consult our [website](#), more information on TeSys GV2 offer, consult our [website](#).

(3) Check on our [website](#) for the exact reference. For installation in North America, please select a UL489 compliant circuit breaker.

(4) Protection on the secondary is necessary.

ABL6TS Optimized range

Recommended protection for the primary

Protection on the primary by fuse or thermal magnetic circuit breaker

| Transformer Reference | Power | 230 Vac single-phase input voltage | | | | | 400 Vac single-phase input voltage | | | | |
|-----------------------|---------|------------------------------------|----------|------------------------------|-----------------|------------------|------------------------------------|----------|------------------------------|-----------------|----------------|
| | | MDL fuses UL listed (1) | aM fuses | TeSys GB2 (IEC/CSA-c/US) (2) | TeSys GV2RT (2) | Acti9 IC60 (3) | MDL fuses UL Listed (1) | aM fuses | TeSys GB2 (IEC/CSA-c/US) (2) | TeSys GV2RT (2) | Acti9 IC60 (3) |
| ABL6TS02G | 25 VA | 0.18 A | 0.16 A | – | – | – | 0.25 A | 0.16 A | – | – | – |
| ABL6TS04G | 40 VA | 0.25 A | 0.25 A | GB2DB05 | GV2RT03 | 0.5 AD curve (4) | 0.25 A | 0.16 A | – | – | – |
| ABL6TS06G | 63 VA | 0.37 A | 0.5 A | GB2DB06 | GV2RT03 | 0.5 AD curve (4) | 0.25 A | 0.25 A | – | – | – |
| ABL6TS10G | 100 VA | 0.5 A | 0.5 A | GB2DB06 | GV2RT04 | 1 AD curve (4) | 0.3 A | 0.5 A | GB2DB05 | GV2RT03 | 0.5 AD curve |
| ABL6TS16G | 160 VA | 1 A | 1 A | GB2DB07 | GV2RT05 | 1 AD curve (4) | 0.5 A | 0.5 A | GB2DB06 | GV2RT04 | 1 AD curve |
| ABL6TS25G | 250 VA | 1.25 A | 2 A | GB2DB07 | GV2RT06 | 2 AD curve (4) | 0.75 A | 1 A | GB2DB06 | GV2RT05 | 1 AD curve |
| ABL6TS40G | 400 VA | 2 A | 2 A | GB2DB09 | GV2RT07 | 4 AD curve (4) | 1.5 A | 2 A (4) | GB2DB07 | GV2RT06 | 2 AD curve |
| ABL6TS63G | 630 VA | 3 A | 4 A | GB2DB12 | GV2RT08 | 6 AD curve (4) | 2.5 A | 4 A (4) | GB2DB08 | GV2RT07 | 3 AD curve |
| ABL6TS100G | 1000 VA | 5 A | 6 A | GB2DB16 | GV2RT10 | 10 AD curve (4) | 3.5 A | 4 A | GB2DB10 | GV2RT08 | 6 AD curve |
| ABL6TS160G | 1600 VA | 8 A | 8 A | GB2DB16 | GV2RT14 | 10 AD curve (4) | 5 A | 4 A | GB2DB12 | GV2RT10 | 6 AD curve |
| ABL6TS250G | 2500 VA | – | 25 A (4) | – | – | – | – | 10 A (4) | GB2DB22 | GV2RT16 (4) | – |

Recommended protection for the secondary

Protection on the secondary by fuses of thermal circuit breaker

| Transformer Reference | Power | 115 Vac secondary | | | |
|-----------------------|---------|-------------------|----------|------------------------------|----------------|
| | | gG fuse (1) | aM fuses | TeSys GB2 (IEC/CSA-c/US) (2) | Acti9 IC60 (4) |
| ABL6TS02G | 25 VA | – | 0.25 A | – | – |
| ABL6TS04G | 40 VA | 0.5 A | 0.5 A | – | – |
| ABL6TS06G | 63 VA | 0.5 A | 0.5 A | GB2CD05 | 0.5 A C curve |
| ABL6TS10G | 100 VA | 1 A | 1 A | GB2CD06 | 1 A C curve |
| ABL6TS16G | 160 VA | 1 A | 1 A | GB2CD07 | 2 A C curve |
| ABL6TS25G | 250 VA | 2 A | 2 A | GB2CD07 | 2 A C curve |
| ABL6TS40G | 400 VA | 4 A | 4 A | GB2CD09 | 4 A C curve |
| ABL6TS63G | 630 VA | 6 A | 6 A | GB2CD12 | 6 A C curve |
| ABL6TS100G | 1000 VA | 8 A | 8 A | GB2CD16 | 10 A C curve |
| ABL6TS160G | 1600 VA | 12 A | 12 A | GB2CD21 | 16 A C curve |
| ABL6TS250G | 2500 VA | 20 A | 20 A | GB2CD22 | 20 A C curve |

Recommended protection for the primary

Protection on the primary by fuse or thermal magnetic circuit breaker

| Transformer Reference | Power | 230 Vac single-phase input voltage | | | | | 400 Vac single-phase input voltage | | | | |
|-----------------------|---------|------------------------------------|----------|------------------------------|-----------------|------------------|------------------------------------|----------|------------------------------|-----------------|----------------|
| | | MDL fuses UL listed (1) | aM fuses | TeSys GB2 (IEC/CSA-c/US) (2) | TeSys GV2RT (2) | Acti9 IC60 (3) | MDL fuses UL Listed (1) | aM fuses | TeSys GB2 (IEC/CSA-c/US) (2) | TeSys GV2RT (2) | Acti9 IC60 (3) |
| ABL6TS02U | 25 VA | 0.18 A | 0.16 A | – | – | – | 0.25 A | 0.16 A | – | – | – |
| ABL6TS04U | 40 VA | 0.25 A | 0.25 A | GB2DB05 | GV2RT03 | 0.5 AD curve (4) | 0.25 A | 0.16 A | – | – | – |
| ABL6TS06U | 63 VA | 0.37 A | 0.5 A | GB2DB05 | GV2RT03 | 0.5 AD curve (4) | 0.25 A | 0.25 A | – | – | – |
| ABL6TS10U | 100 VA | 0.5 A | 0.5 A | GB2DB05 | GV2RT04 | 1 AD curve (4) | 0.3 A | 0.5 A | GB2DB05 | GV2RT03 | 0.5 AD curve |
| ABL6TS16U | 160 VA | 1 A | 1 A | GB2DB06 | GV2RT05 | 2 AD curve (4) | 0.5 A | 0.5 A | GB2DB06 | GV2RT04 | 1 AD curve |
| ABL6TS25U | 250 VA | 1.25 A | 2 A | GB2DB07 | GV2RT06 | 2 AD curve (4) | 0.75 A | 1 A | GB2DB06 | GV2RT05 | 1 AD curve |
| ABL6TS40U | 400 VA | 2 A | 2 A | GB2DB09 | GV2RT07 | 3 AD curve (4) | 1.5 A | 2 A (4) | GB2DB07 | GV2RT06 | 2 AD curve |
| ABL6TS63U | 630 VA | 3 A | 4 A | GB2DB14 | GV2RT10 (4) | 10 AD curve (4) | 2.5 A | 4 A (4) | GB2DB10 | GV2RT08 (4) | 4 AD curve |
| ABL6TS100U | 1000 VA | 5 A | 6 A | GB2DB20 | GV2RT14 (4) | 10 AD curve (4) | 5 A (4) | 4 A | GB2DB12 | GV2RT10 (4) | 6 AD curve |
| ABL6TS160U | 1600 VA | 8 A | 8 A | GB2DB20 | GV2RT14 | 16 AD curve (4) | 5 A (4) | 4 A | GB2DB14 | GV2RT10 | 6 AD curve |
| ABL6TS250U | 2500 VA | – | 16 A (4) | – | – | – | – | 10 A (4) | GB2DB22 | GV2RT16 (4) | 16 AD curve |

Recommended protection for the secondary

Protection on the secondary by fuses of thermal circuit breaker

| Transformer Reference | Power | 230 Vac secondary | | | |
|-----------------------|---------|-------------------|----------|------------------------------|----------------|
| | | gG fuse (1) | aM fuses | TeSys GB2 (IEC/CSA-c/US) (2) | Acti9 IC60 (3) |
| ABL6TS02U | 25 VA | – | 0.16 A | – | – |
| ABL6TS04U | 40 VA | – | 0.16 A | – | – |
| ABL6TS06U | 63 VA | – | 0.25 A | – | – |
| ABL6TS10U | 100 VA | 0.5 A | 0.5 A | GB2CD05 | 0.5 A C curve |
| ABL6TS16U | 160 VA | 0.5 A | 0.5 A | GB2CD06 | 1 A C curve |
| ABL6TS25U | 250 VA | 1 A | 1 A | GB2CD06 | 1 A C curve |
| ABL6TS40U | 400 VA | 2 A | 2 A | GB2CD07 | 2 A C curve |
| ABL6TS63U | 630 VA | 2 A | 2 A | GB2CD08 | 3 A C curve |
| ABL6TS100U | 1000 VA | 4 A | 4 A | GB2CD09 | 4 A C curve |
| ABL6TS160U | 1600 VA | 6 A | 6 A | GB2CD14 | 6 A C curve |
| ABL6TS250U | 2500 VA | 10 A | 10 A | GB2CD16 | 10 A C curve |

(1) For operation in compliance with UL.

(2) More information on TeSys GB2 offer, consult our [website](#), more information on TeSys GV2 offer, consult our [website](#).

(3) Check on our [website](#) for the exact reference. For installation in North America, please select a UL489 compliant circuit breaker.

(4) Protection on the secondary is necessary

| ABT7PDU Universal range | | | | | | | | | | | |
|---|---------|-------------------------|----------|-------------------------------|-----------------|-------------------|-------------------------|----------|-------------------------------|-----------------|------------------|
| Recommended protection for the primary | | | | | | | | | | | |
| Protection on the primary by fuse or thermal magnetic circuit breaker | | | | | | | | | | | |
| Transformer | | 230 Vac single-phase | | | | | 400 Vac single-phase | | | | |
| Reference | Power | MDL fuses UL listed (1) | aM fuses | TeSys GB2 (IEC/ CSA-c/US) (2) | TeSys GV2RT (2) | Acti9 IC60 (3) | MDL fuses UL Listed (1) | aM fuses | TeSys GB2 (IEC/ CSA-c/US) (2) | TeSys GV2RT (2) | Acti9 IC60 (3) |
| ABT7PDU002G | 25 VA | 0.2 A | 0.25 A | – | – | – | 0.25 A | 0.16 A | – | – | – |
| ABT7PDU004B/G | 40 VA | 0.3 A | 0.25 A | GB2DB05 | GV2RT03 | 0.5 A D curve (4) | 0.25 A | 0.16 A | – | – | – |
| ABT7PDU006B/G | 63 VA | 0.5 A | 0.5 A | GB2DB06 | GV2RT04 | 0.5 A D curve (4) | 0.25 A | 0.25 A | – | – | – |
| ABT7PDU010B/G | 100 VA | 0.5 A | 0.5 A | GB2DB06 | GV2RT04 | 1 A D curve (4) | 0.3 A | 0.5 A | GB2DB05 | GV2RT03 | 0.5 A D curve |
| ABT7PDU016B/G | 160 VA | 1 A | 1 A | GB2DB07 | GV2RT05 | 1 A D curve (4) | 0.5 A | 0.5 A | GB2DB06 | GV2RT04 | 1 A D curve |
| ABT7PDU025B/G | 250 VA | 1.25 A | 2 A | GB2DB07 | GV2RT06 | 2 A D curve (4) | 0.75 A | 1 A | GB2DB06 | GV2RT05 | 1 A D curve |
| ABT7PDU032B/G | 320 VA | 1.5 A | 2 A | GB2DB07 | GV2RT07 | 2 A D curve | 1 A | 1 A | GB2DB06 | GV2RT05 | 1 A D curve |
| ABT7PDU040B/G | 400 VA | 2 A | 2 A | GB2DB09 | GV2RT07 | 3 A D curve (4) | 1.25 A | 2 A (4) | GB2DB07 | GV2RT06 | 2 A D curve |
| ABT7PDU063B/G | 630 VA | 3 A | 4 A | GB2DB12 (4) | GV2RT08 | 6 A D curve (4) | 2 A | 2 A | GB2DB09 (4) | – | 4 A D curve (4) |
| ABT7PDU100B/G | 1000 VA | 5 A | 6 A | GB2DB16 (4) | GV2RT10 | 10 A D curve (4) | 3 A | 4 A (4) | GB2DB12 (4) | – | 6 A D curve (4) |
| ABT7PDU160B/G | 1600 VA | 8 A | 8 A | GB2DB21 (4) | GV2RT14 | 16 A D curve (4) | 4 A | 6 A (4) | GB2DB14 (4) | GV2RT10 | 10 A D curve (4) |
| ABT7PDU250B/G | 2500 VA | – | 12 A | – | – | 25 A D curve (4) | 7 A | 8 A (4) | GB2DB21 (4) | GV2RT14 | 16 A D curve (4) |

| Recommended protection for the secondary | | | | | | | | | |
|---|---------|------------------|----------|-------------------------------|----------------|------------------|----------|-------------------------------|----------------|
| Protection on the secondary by fuses of thermal circuit breaker | | | | | | | | | |
| Transformer | | 24 Vac secondary | | | | 48 Vac secondary | | | |
| Reference | Power | gG fuse (1) | aM fuses | TeSys GB2 (IEC/ CSA-c/US) (2) | Acti9 IC60 (3) | gG fuse (1) | aM fuses | TeSys GB2 (IEC/ CSA-c/US) (2) | Acti9 IC60 (3) |
| ABT7PDU004B | 40 VA | 2 A | 2 A | GB2CD07 | 2 A C curve | 1 A | 1 A | GB2CD06 | 1 A C curve |
| ABT7PDU006B | 63 VA | 2 A | 2 A | GB2CD08 | 3 A C curve | 1 A | 1 A | GB2CD06 | 1 A C curve |
| ABT7PDU010B | 100 VA | 4 A | 4 A | GB2CD09 | 4 A C curve | 2 A | 2 A | GB2CD07 | 2 A C curve |
| ABT7PDU016B | 160 VA | 6 A | 6 A | GB2CD12 | 6 A C curve | 2 A | 2 A | GB2CD08 | 3 A C curve |
| ABT7PDU025B | 250 VA | 10 A | 10 A | GB2CD16 | 10 A C curve | 4 A | 4 A | GB2CD10 | 6 A C curve |
| ABT7PDU032B | 320 VA | 12 A | 12 A | GB2CD20 | 16 A C curve | 6 A | 6 A | GB2CD12 | 10 A C curve |
| ABT7PDU040B | 400 VA | 16 A | 16 A | GB2CD21 | 16 A C curve | 8 A | 8 A | GB2CD14 | 10 A C curve |
| ABT7TDU063B | 630 VA | 25 A | 25 A | – | 25 A C curve | 12 A | 12 A | GB2CD20 | 16 A C curve |
| ABT7TDU100B | 1000 VA | 40 A | 40 A | – | 40 A C curve | 20 A | 20 A | GB2CD22 | 20 A C curve |
| ABT7TDU160B | 1600 VA | 63 A | 63 A | – | 63 A C curve | 32 A | 32 A | – | 32 A C curve |
| ABT7TDU250B | 2500 VA | 100 A | 100 A | – | – | 50 A | 50 A | – | 50 A C curve |

| Transformer | | 115 Vac secondary | | | | 230 Vac secondary | | | |
|-------------|---------|-------------------|----------|-------------------------------|----------------|-------------------|----------|-------------------------------|----------------|
| Reference | Power | gG fuse (1) | aM fuses | TeSys GB2 (IEC/ CSA-c/US) (2) | Acti9 IC60 (3) | gG fuse (1) | aM fuses | TeSys GB2 (IEC/ CSA-c/US) (2) | Acti9 IC60 (3) |
| ABT7PDU002G | 25 VA | – | 0.25 A | – | – | – | 0.16 A | – | – |
| ABT7PDU004G | 40 VA | 0.5 A | 0.5 A | GB2CD05 | – | – | 0.25 A | – | – |
| ABT7PDU006G | 63 VA | 0.5 A | 0.5 A | GB2CD05 | 0.5 A C curve | – | 0.25 A | – | – |
| ABT7PDU010G | 100 VA | 1 A | 1 A | GB2CD05 | 1 A C curve | 0.5 A | 0.5 A | GB2CD06 | 0.5 A C curve |
| ABT7PDU016G | 160 VA | 1 A | 1 A | GB2CD06 | 2 A C curve | 0.5 A | 0.5 A | GB2CD07 | 1 A C curve |
| ABT7PDU025G | 250 VA | 2 A | 2 A | GB2CD06 | 2 A C curve | 1 A | 1 A | GB2CD07 | 1 A C curve |
| ABT7PDU032G | 320 VA | 2 A | 2 A | GB2CD07 | 3 A C curve | 1 A | 1 A | GB2CD08 | 2 A C curve |
| ABT7PDU040G | 400 VA | 4 A | 4 A | GB2CD07 | 4 A C curve | 2 A | 2 A | GB2CD08 | 2 A C curve |
| ABT7TDU063G | 630 VA | 4 A | 4 A | GB2CD09 | 4 A C curve | 2 A | 2 A | GB2CD07 | 2 A C curve |
| ABT7TDU100G | 1000 VA | 8 A | 8 A | GB2CD14 | 10 A C curve | 4 A | 4 A | GB2CD09 | 4 A C curve |
| ABT7TDU160G | 1600 VA | 12 A | 12 A | GB2CD20 | 16 A C curve | 6 A | 6 A | GB2CD12 | 6 A C curve |
| ABT7TDU250G | 2500 VA | 20 A | 20 A | GB2CD22 | 20 A C curve | 10 A | 10 A | GB2CD16 | 10 A C curve |

(1) For operation in compliance with UL.

(2) More information on TeSys GB2 offer, consult our [website](#), more information on TeSys GV2 offer, consult our [website](#).

(3) Check on our [website](#) for the exact reference. For installation in North America, please select a UL489 compliant circuit breaker.

(4) Protection on the secondary is necessary.

Modicon Transformer

Single phase transformers 230 to 400 Vac,
25 to 2500 VA
Modicon ABT7, ABL6



ABT7ESM000B



ABL6TS000

Transformers with single phase (N-L1) or phase-to-phase (L1-L2) connection

| Input voltage | Secondary | | Nominal power | Reference | Weight kg/lb |
|---------------|-----------|---------|---------------|-----------|--------------|
| | Type | Voltage | | | |

ABT7ES Economic range

Transformers 230 VAC, Single winding

| | | | | | |
|---|----------------|------|--------|-----------------------------|--------------|
| 230 Vac single phase, (N-L1) or phase to phase (L1-L2) connection ± 15 V | Single winding | 24 V | 40 VA | ABT7ESM004B | 1.020/2.249 |
| | | | 63 VA | ABT7ESM006B | 1.140/2.513 |
| | | | 100 VA | ABT7ESM010B | 1.900/4.189 |
| | | | 160 VA | ABT7ESM016B | 2.720/5.997 |
| | | | 250 VA | ABT7ESM025B | 3.540/7.804 |
| | | | 320 VA | ABT7ESM032B | 4.080/8.995 |
| | | | 400 VA | ABT7ESM040B | 5.100/11.244 |

ABL6TS Optimized range

Transformers 230/400 VAC, Single winding

| | | | | | |
|---|----------------|----------------------------|----------------------------|----------------------------|---------------|
| 230 Vac single phase, (N-L1), 400 Vac phase to phase (L1-L2) ± 15 V | Single winding | 12 V | 25 VA | ABL6TS02J | 0.700/1.543 |
| | | | 40 VA | ABL6TS04J | 1.200/2.646 |
| | | | 63 VA | ABL6TS06J | 1.600/3.527 |
| | | | 100 VA | ABL6TS10J | 2.100/4.630 |
| | | | 160 VA | ABL6TS16J | 3.200/7.055 |
| | | | 250 VA | ABL6TS25J | 4.400/9.700 |
| | | 24 V | 25 VA | ABL6TS02B | 0.700/1.543 |
| | | | 40 VA | ABL6TS04B | 1.200/2.646 |
| | | | 63 VA | ABL6TS06B | 1.600/3.527 |
| | | | 100 VA | ABL6TS10B | 2.100/4.630 |
| | | | 160 VA | ABL6TS16B | 3.200/7.055 |
| | | | 250 VA | ABL6TS25B | 4.400/9.700 |
| | 115 V | 2500 VA | 400 VA | ABL6TS40B | 6.500/14.330 |
| | | | 630 VA | ABL6TS63B | 9.800/21.605 |
| | | | 1000 VA | ABL6TS100B | 14.300/31.526 |
| | | | 1600 VA | ABL6TS160B | 19.400/42.770 |
| | | | 2500 VA | ABL6TS250B | 27.400/60.407 |
| | | | 25 VA | ABL6TS02G | 0.700/1.543 |
| | | 230 V | 40 VA | ABL6TS04G | 1.200/2.646 |
| | | | 63 VA | ABL6TS06G | 1.600/3.527 |
| | | | 100 VA | ABL6TS10G | 2.100/4.630 |
| | | | 160 VA | ABL6TS16G | 3.200/7.055 |
| | | | 250 VA | ABL6TS25G | 4.400/9.700 |
| | | | 400 VA | ABL6TS40G | 6.500/14.330 |
| 230 V | 2500 VA | 630 VA | ABL6TS63G | 9.800/21.605 | |
| | | 1000 VA | ABL6TS100G | 14.300/31.526 | |
| | | 1600 VA | ABL6TS160G | 19.400/42.770 | |
| | | 2500 VA | ABL6TS250G | 27.400/60.407 | |
| | | 25 VA | ABL6TS02U | 0.700/1.543 | |
| | | 40 VA | ABL6TS04U | 1.200/2.646 | |
| | 230 V | 63 VA | ABL6TS06U | 1.600/3.527 | |
| | | 100 VA | ABL6TS10U | 2.100/4.630 | |
| | | 160 VA | ABL6TS16U | 3.200/7.055 | |
| | | 250 VA | ABL6TS25U | 4.400/9.700 | |
| | | 400 VA | ABL6TS40U | 6.500/14.330 | |
| | | 630 VA | ABL6TS63U | 9.800/21.605 | |
| 230 V | 1000 VA | ABL6TS100U | 14.300/31.526 | | |
| | 1600 VA | ABL6TS160U | 19.400/42.770 | | |
| | 2500 VA | ABL6TS250U | 27.400/60.407 | | |

Modicon Transformer

Single phase transformers 230 to 400 Vac,
25 to 2500 VA

Modicon ABT7, ABL6



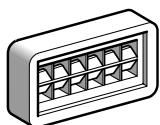
ABT7PDU002...032



ABT7PDU040...250



ABL6AM0



AR1SB3

Transformers with single phase (N-L1) or phase-to-phase (L1-L2) connection

| Input voltage | Secondary | | Nominal power | Reference | Weight kg/lb |
|---|----------------|-----------|---------------|-------------|--------------|
| | Type | Voltage | | | |
| ABT7PDU Universal range | | | | | |
| Transformers 230/400 V, Double winding | | | | | |
| With cover, connected by internal jumpers with LED indicators | | | | | |
| 230 Vac single phase, (N-L1), 400 Vac phase to phase (L1-L2) ± 15 V | Double winding | 2 x 24 V | 40 VA | ABT7PDU004B | 1.400/3.086 |
| | | | 63 VA | ABT7PDU006B | 1.940/4.277 |
| | | | 100 VA | ABT7PDU010B | 2.860/6.305 |
| | | | 160 VA | ABT7PDU016B | 4.400/9.700 |
| | | | 250 VA | ABT7PDU025B | 5.600/12.346 |
| | | | 320 VA | ABT7PDU032B | 7.100/15.653 |
| | | 2 x 115 V | 25 VA | ABT7PDU002G | 1.100/2.425 |
| | | | 40 VA | ABT7PDU004G | 1.400/3.086 |
| | | | 63 VA | ABT7PDU006G | 1.940/4.277 |
| | | | 100 VA | ABT7PDU010G | 2.860/6.305 |
| | | | 160 VA | ABT7PDU016G | 4.400/9.700 |
| | | | 250 VA | ABT7PDU025G | 5.600/12.346 |
| | | | 320 VA | ABT7PDU032G | 7.100/15.653 |

Without cover, connected by external jumpers

| | | | | | |
|---|----------------|-----------|---------|-------------|---------------|
| 230 Vac single phase, (N-L1), 400 Vac phase to phase (L1-L2) ± 15 V | Double winding | 2 x 24 V | 400 VA | ABT7PDU040B | 7.400/16.314 |
| | | | 630 VA | ABT7PDU063B | 7.900/17.418 |
| | | | 1000 VA | ABT7PDU100B | 14.000/30.865 |
| | | | 1600 VA | ABT7PDU160B | 20.000/44.092 |
| | | | 2500 VA | ABT7PDU250B | 28.000/61.729 |
| | | 2 x 115 V | 400 VA | ABT7PDU040G | 7.400/16.314 |
| | | | 630 VA | ABT7PDU063G | 7.900/17.418 |
| | | | 1000 VA | ABT7PDU100G | 14.000/30.865 |
| | | | 1600 VA | ABT7PDU160G | 20.000/44.092 |
| | | | 2500 VA | ABT7PDU250G | 28.000/61.729 |

Separate parts for ABT7 and ABL6 transformers

| Designation | Use on transformers | Order in multiples of | Unit reference | Weight kg/lb |
|--|--|-----------------------|----------------|--------------|
| Plates for mounting on rail | ABL6TS02J, ABL6TS02B, ABL6TS02G, ABL6TS02U | 5 | ABL6AM00 | 0.045/0.099 |
| | ABT7ESM004B, ABT7ESM006B, ABL6TS04J, ABL6TS04B, ABL6TS04G, ABL6TS04U | 5 | ABL6AM01 | 0.050/0.110 |
| | ABL6TS06J, ABL6TS06B, ABL6TS06G, ABL6TS06U | 5 | ABL6AM02 | 0.055/0.121 |
| | ABT7ESM010B, ABL6TS10J, ABL6TS10B, ABL6TS10G, ABL6TS10U | 5 | ABL6AM03 | 0.065/0.143 |
| | ABT7ESM016B | 5 | ABL6AM04 | 0.085/0.187 |
| Self-adhesive marker tag holder 20 x 10 mm (0.78 x 0.39 in) | – | 50 | AR1SB3 | 0.001/0.002 |

Separate parts for ABT7 and ABL6 transformers

| Designation | Use on | Reference | Weight kg/lb |
|--------------------|--|-----------|--------------|
| Pack of 10 jumpers | ABT7PDU double-winding transformer (Universal range) | ABT7JMP01 | 0.010/0.022 |

Modicon Transformer

Single phase transformers 230 to 400 Vac,
25 to 2500 VA
Modicon ABT7, ABL6

| | | | | | |
|------------|----|---------------|----|---------------|----|
| A | | | | | |
| ABL6AM00 | 11 | ABL6TS40B | 7 | ABT7PDU160B | 11 |
| ABL6AM01 | 11 | ABL6TS40G | 8 | ABT7PDU160B/G | 9 |
| ABL6AM02 | 11 | | 10 | ABT7PDU160G | 11 |
| ABL6AM03 | 11 | ABL6TS40U | 8 | ABT7PDU250B | 11 |
| ABL6AM04 | 11 | | 10 | ABT7PDU250B/G | 9 |
| ABL6TS02B | 7 | ABL6TS63B | 7 | ABT7PDU250G | 11 |
| | 10 | | 10 | ABT7TDU063B | 9 |
| ABL6TS02G | 8 | ABL6TS63G | 8 | ABT7TDU063G | 9 |
| | 10 | | 10 | ABT7TDU100B | 9 |
| ABL6TS02J | 7 | ABL6TS63U | 8 | ABT7TDU100G | 9 |
| | 10 | | 10 | ABT7TDU160B | 9 |
| ABL6TS02U | 8 | ABT7ESM004B | 6 | ABT7TDU160G | 9 |
| | 10 | | 10 | ABT7TDU250B | 9 |
| ABL6TS04B | 7 | ABT7ESM006B | 6 | ABT7TDU250G | 9 |
| | 10 | | 10 | AR1SB3 | 11 |
| ABL6TS04G | 8 | ABT7ESM010B | 6 | G | |
| | 10 | | 10 | GB2CD05 | 8 |
| ABL6TS04J | 7 | ABT7ESM016B | 6 | | 9 |
| | 10 | | 10 | GB2CD06 | 7 |
| ABL6TS04U | 8 | ABT7ESM025B | 6 | | 9 |
| | 10 | | 10 | GB2CD07 | 6 |
| ABL6TS06B | 7 | ABT7ESM032B | 6 | | 7 |
| | 10 | | 10 | GB2CD07 | 6 |
| ABL6TS06G | 8 | ABT7ESM040B | 6 | | 8 |
| | 10 | | 10 | | 9 |
| ABL6TS06J | 7 | ABT7JMP01 | 11 | GB2CD08 | 6 |
| | 10 | ABT7PDU002G | 9 | | 7 |
| ABL6TS06U | 8 | | 11 | | 8 |
| | 10 | ABT7PDU004B | 9 | | 9 |
| ABL6TS100B | 7 | | 11 | GB2CD09 | 6 |
| | 10 | ABT7PDU004B/G | 9 | | 7 |
| ABL6TS100G | 8 | ABT7PDU004G | 9 | | 8 |
| | 10 | | 11 | | 9 |
| ABL6TS100U | 8 | ABT7PDU006B | 9 | GB2CD10 | 7 |
| | 10 | | 11 | | 9 |
| ABL6TS10B | 7 | ABT7PDU006B/G | 9 | GB2CD12 | 6 |
| | 10 | ABT7PDU006G | 9 | | 7 |
| ABL6TS10G | 8 | | 11 | | 8 |
| | 10 | ABT7PDU010B | 9 | | 9 |
| ABL6TS10J | 7 | | 11 | GB2CD14 | 7 |
| | 10 | ABT7PDU010B/G | 9 | | 8 |
| ABL6TS10U | 8 | ABT7PDU010G | 9 | | 9 |
| | 10 | | 11 | GB2CD16 | 6 |
| ABL6TS160B | 7 | ABT7PDU016B | 9 | | 7 |
| | 10 | | 11 | | 8 |
| ABL6TS160G | 8 | ABT7PDU016B/G | 9 | GB2CD20 | 6 |
| | 10 | ABT7PDU016G | 9 | | 7 |
| ABL6TS160U | 8 | | 11 | | 9 |
| | 10 | ABT7PDU025B | 9 | GB2CD21 | 6 |
| ABL6TS16B | 7 | | 11 | | 7 |
| | 10 | ABT7PDU025B/G | 9 | | 8 |
| ABL6TS16G | 8 | ABT7PDU025G | 9 | | 9 |
| | 10 | | 11 | GB2CD22 | 7 |
| ABL6TS16J | 7 | ABT7PDU032B | 9 | | 8 |
| | 10 | | 11 | | 9 |
| ABL6TS16U | 8 | ABT7PDU032B/G | 9 | GB2DB05 | 7 |
| | 10 | ABT7PDU032G | 9 | | 8 |
| ABL6TS250B | 7 | | 11 | | 9 |
| | 10 | ABT7PDU040B | 9 | GB2DB06 | 7 |
| ABL6TS250G | 8 | | 11 | | 8 |
| | 10 | ABT7PDU040B/G | 9 | | 9 |
| ABL6TS250U | 8 | ABT7PDU040G | 9 | GB2DB07 | 7 |
| | 10 | | 11 | | 8 |
| ABL6TS25B | 7 | ABT7PDU063B | 11 | GB2DB08 | 8 |
| | 10 | ABT7PDU063B/G | 9 | GB2DB09 | 7 |
| ABL6TS25G | 8 | ABT7PDU063G | 11 | | 8 |
| | 10 | | 11 | | 9 |
| ABL6TS25J | 7 | ABT7PDU100B | 11 | GB2DB10 | 7 |
| | 10 | ABT7PDU100B/G | 9 | | 8 |
| ABL6TS25U | 8 | ABT7PDU100G | 11 | | |
| | 10 | | | | |

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DIA3ED2170403EN
October 2021 - V4.0