

## IDEAL 89-212

# IDEAL 89-212 Terminal Strip User Manual

Model: 89-212 | Brand: IDEAL

## INTRODUCTION

The IDEAL 89-212 Terminal Strip is a robust 12-circuit electrical connector designed for secure and reliable wire termination. It features a rugged base to prevent breakage and corrosion-resistant surface plates with No.8 phillslot screws, ensuring long-term durability. This terminal strip is rated for up to 600-Volt and 30A applications, making it suitable for various industrial and home improvement electrical connections.

## SAFETY INFORMATION

Always observe standard electrical safety precautions when working with terminal strips and electrical wiring. Failure to do so may result in serious injury or damage to property.

- Ensure power is disconnected at the source before installation, maintenance, or troubleshooting.
- Use appropriate personal protective equipment (PPE), such as insulated gloves and safety glasses.
- Verify voltage and current ratings of the terminal strip are compatible with your application. This unit is rated for up to 600 Volts and 30 Amps.
- All wiring should comply with local and national electrical codes.
- Do not exceed the specified torque rating of 16-Inch-Pound for the screws.
- This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 warning).

## PRODUCT OVERVIEW



Figure 1: The IDEAL 89-212 Terminal Strip, showing its black housing and screw terminals.

The IDEAL 89-212 is a 12-circuit screw terminal strip designed for efficient and secure electrical connections. Each circuit consists of a metal terminal block with two phillslot screws for securing wires, separated by a rugged black plastic housing.

### Key Features:

- Torque Rating of 16-Inch Pound
- Rugged base eliminates breakage
- Center spacing of 0.562-Inch (14.3mm)
- Accepts up to No.10 AWG wire
- Rated up to 600-Volt, 30A

### SPECIFICATIONS

Specification	Value
Brand	IDEAL
Model Number	89-212
Current Rating	30 Amps
Voltage Rating	600 Volts
Number of Contacts	12
Connector Type	Screw
Mounting Type	Surface

Specification	Value
Material	Copper (terminals), Plastic (housing)
Color	Black
Item Pitch	0.56 Inches (14.3mm)
Wire Gauge Accepted	Up to No.10 AWG
Item Weight	4.8 ounces
Product Dimensions	4 x 2 x 1 inches
Certifications	CSA, UL

## SETUP

---

Follow these steps for proper installation of the terminal strip:

- 1. Power Disconnection:** Before beginning any installation, ensure that all power to the circuit is completely disconnected at the main breaker or fuse box. Verify with a voltage tester.
- 2. Mounting:** Secure the terminal strip to a stable, non-conductive surface using appropriate fasteners through the mounting holes provided at each end of the strip. Ensure it is firmly attached to prevent movement.
- 3. Wire Preparation:** Strip approximately 3/8 to 1/2 inch of insulation from the ends of the wires to be connected. Ensure the wire strands are neatly twisted if using stranded wire.
- 4. Wire Insertion:** Loosen the phillips screws on the desired terminal circuits. Insert the prepared wire ends fully into the terminal openings beneath the screws.
- 5. Secure Connections:** Tighten the phillips screws firmly to secure the wires. Apply a torque of up to 16-Inch-Pound. Do not overtighten, as this can damage the terminal or wire. Ensure no loose strands are exposed.
- 6. Verification:** After all connections are made, visually inspect each terminal to confirm wires are securely fastened and there are no exposed conductors that could cause a short circuit.

## OPERATING INSTRUCTIONS

---

Once installed, the IDEAL 89-212 Terminal Strip operates passively as a connection point for electrical circuits. Its primary function is to provide a secure and organized method for connecting multiple wires within a system.

- The terminal strip facilitates the distribution of power or signals from one source to multiple destinations, or vice-versa.
- Ensure that the total current flowing through any single terminal or the entire strip does not exceed its rated capacity (30 Amps).
- Accessory jumpers are available for creating common connections across multiple terminals if required for your application.

## MAINTENANCE

---

The IDEAL 89-212 Terminal Strip requires minimal maintenance. Regular inspection is recommended to ensure continued safe and reliable operation.

- **Periodic Inspection:** Periodically inspect the terminal strip for any signs of damage, discoloration, or loose connections. This should be done with power disconnected.

- **Cleaning:** If necessary, gently clean the exterior of the terminal strip with a dry, lint-free cloth. Do not use liquid cleaners or solvents.
- **Tightness Check:** Re-check the tightness of the screw terminals annually, especially in environments subject to vibration or significant temperature fluctuations. Ensure power is off before checking.
- **Environmental Conditions:** Ensure the terminal strip is not exposed to excessive moisture, dust, or corrosive substances beyond its intended operating environment.

## TROUBLESHOOTING

---

If you encounter issues with your IDEAL 89-212 Terminal Strip, consider the following common troubleshooting steps:

- **No Power/Intermittent Connection:**
  - *Check Wire Connections:* Ensure all wires are securely fastened under the screws. Loose connections are a common cause of intermittent power.
  - *Verify Wire Stripping:* Confirm that enough insulation was stripped to allow good contact with the terminal, but not so much that bare wire is exposed outside the terminal.
  - *Inspect Wires:* Check for damaged or broken wires leading to or from the terminal strip.
- **Overheating/Discoloration:**
  - *Check Load:* Ensure the current load does not exceed the 30 Amp rating of the terminal strip. Overloading can cause overheating.
  - *Inspect Connections:* Loose connections can create resistance and generate heat. Re-tighten screws if necessary (with power off).
  - *Wire Gauge:* Confirm that the wire gauge used is appropriate for the current load and is not undersized.
- **Physical Damage:**
  - If the terminal strip housing is cracked or broken, or if terminals are corroded beyond cleaning, the unit should be replaced immediately to ensure safety and proper function.

If issues persist after troubleshooting, consult a qualified electrician or contact IDEAL customer support.

## WARRANTY AND SUPPORT

---

For information regarding warranty coverage, technical support, or replacement parts for your IDEAL 89-212 Terminal Strip, please refer to the official IDEAL Industries website or contact their customer service department directly. Keep your purchase receipt as proof of purchase.

*Note: Specific warranty terms and conditions may vary by region and product.*



[\[pdf\]](#) User Manual Guide

untitled Canon EOS 7D Manual User Guide Download Instruction TR gdlp01 c wss gds 9 0300018739 01

|||

FOTORAF MAKNES KULLANIM KILAVUZU TR Malin enerji tketimi aisindan verimli kullanimina ilikin bilgiler Satin almi olduunuz rnn mr boyunca enerji tketimi aisindan verimli kullanimi iin bakim hizmetlerinin yetkilendirilmi sertifikali elemanlarca yapilmasi, varsa periyodik bakimlarinin aksatilmamasi ...

lang:id **score:37** filesize: 11.54 M page\_count: 280 document date: 2014-10-28

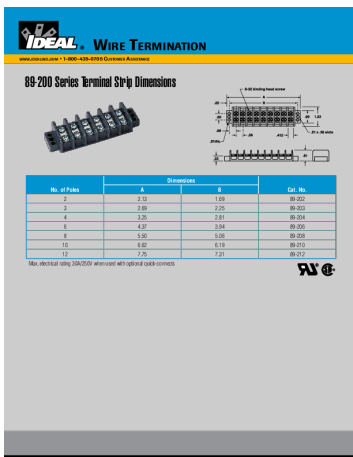


[\[pdf\]](#) Instructions Guide

Everyday Sports Injuries The Essential Step by Guide to Prevention Diagnosis and Treatment DK 28 févr 2023 — the best activities for your sport such as strength training you follow step instructions given with each exercise closely jimdo storage global ssl fastly net file 008b8a9a 79ae 4d87 971f 5b7cb3750d4b |||

EVERYDAY SPORTS INJURIES CONTENTS Senior Editors Gareth Jones, Ed Wilson Editors Marcus Hardy, David Summers, Joanna INTRODUCTION 6 Edwards, Nicola Munro Medical Editor Martyn Page US Editor Jill Hamilton BITTEN OR SWALLOWED 55 US Medical Consultant Eric N. Dubrow, MD TONGUE Senior...

lang:en **score:20** filesize: 45.03 M page\_count: 274 document date: 2018-11-30

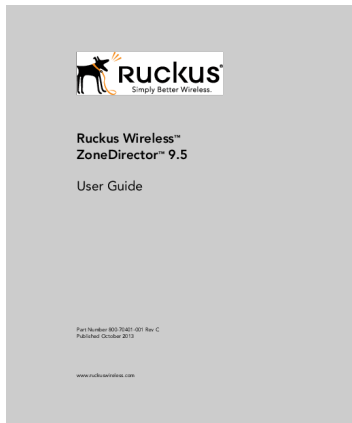


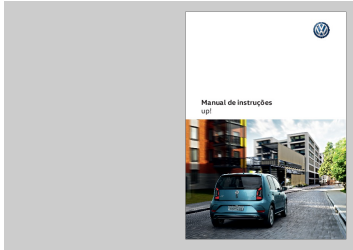
[\[pdf\]](#) Datasheet Dimension Guide

Ideal 89 212 Turtle Hughes IDEAL 203 Datasheet 1 turtle ASSETS DOCUMENTS ITEMS EN |||

Wire Termination www.idealind.com 1-800-435-0705 Customer Assistance 89-200 Series Terminal Strip D ... 30A/250V when used with optional quick-connects Cat. No. 89-202 89-203 89-204 89-206 89-208 89-210 **89-212** ...

lang:en **score:17** filesize: 93.7 K page\_count: 1 document date: 2015-11-02





#### [\[pdf\]](#) User Manual

Manual do proprietário Volkswagen up! 2020 15 82 MB 245 páginas Português Baixar Proprietário Carro manual volkswagen up pt br manualcarro |||

Manual de instrues up Certificado de garantia Certificado de garantia para o veculo Volkswagen Apresente este certificado a uma Concessionria Volkswagen, caso seja necessrio um servio em garantia. De acordo com os termos de garantia constantes neste manual, a garantia entra em vigor a partir d...

lang:pt **score:12** filesize: 16.63 M page\_count: 245 document date: 2019-04-15



#### [\[pdf\]](#) User Manual Guide

Download User Manual For Bosch Appliances Home Security System ICP nuvotonpsg static6 arrow aro conversion 21e9d9d07f60aa94509b74aa88397be342bf844d |||

Downloaded from Arrow.com. Nuvoton Technology Corp. was established as a spin-off of Winbond Electronics Logic business group, starting operation in July, 2008 and IPO in September, 2010. Nuvoton Technology focuses on the R D and sales in logic ICs, and leads in market shares of Audio, Microcontr...

lang:en **score:11** filesize: 2.19 M page\_count: 40 document date: 2022-03-23



#### [\[pdf\]](#) User Manual Dimension Guide

Untitled Sphinx ManualHMS 1775 Vanguard ModelsSphinx Manualcdn shopify s files 1 0882 5887 1630 Manual v 1734899576 |||

Building Manual PART NUMBER - VM-07 The 20 Gun SixTh RaTe hMS Sphinx 1775 History e Sphinx was the named ship of its class, designed by John Williams in 1773, almost two decades after the last batch of 20 gun ships. is class had ner lines than the earlier designs, but more or less the same layout...

lang:en **score:11** filesize: 9.67 M page\_count: 152 document date: 2024-12-22



#### [\[pdf\]](#) User Manual Warranty Label

Untitled mihai ganea ScanAvenger User Manual v5 0 SA1100 1D 2D Wi Fi Bluetooth Barcode Scanner 1D2D Scanners scanavenger 2023 10 |||

TEAMWORK DEFINED BY QUALITY BUILDING LONG LASTING RELATIONSHIPS TECHNOLOGY DESIGNED BY REAL EXPERTS User Manual ScanAvenger Wireless / Bluetooth / USB 1D 2D Barcode Scanners helpdesk scanavenger.com 1 424 444-6929 Page I of 206 Disclaimer Please read through the manual carefully before using ...

lang:en **score:10** filesize: 3.32 M page\_count: 206 document date: 2025-05-14





### [\[pdf\]](#) User Manual Warranty Label

Untitled mihai ganea ScanAvenger User Manual v5 0SA8900 1D 2D Wi Fi Bluetooth Barcode Scanner

ScanAvengerv1scanavenger 2023 10 1D2D Scanners 1 |||

TEAMWORK DEFINED BY QUALITY BUILDING LONG LASTING RELATIONSHIPS

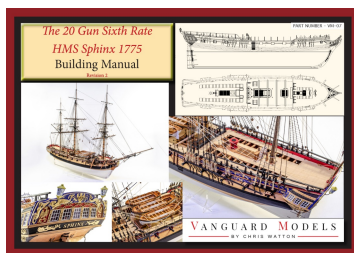
TECHNOLOGY DESIGNED BY REAL EXPERTS User Manual ScanAvenger

Wireless / Bluetooth / USB 1D 2D Barcode Scanners helpdesk scanavenger.com 1

424 444-6929 Page I of 206 Disclaimer Please read through the manual carefully

before using ...

lang:en **score:10** filesize: 3.21 M page\_count: 206 document date: 2025-05-14



### [\[pdf\]](#) User Manual Dimension Guide

Manuál Vanguard Models HMS Sphinx 1775 1 64 kit KR 25316 Astra Construction Manual Revision 2

engl astramodel cz manualy vanguard models |||

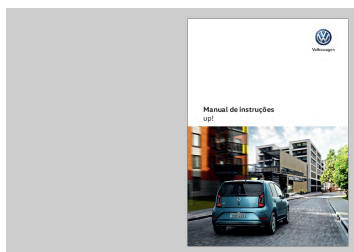
Building Manual PART NUMBER - VM-07 The 20 Gun Sixth Rate HMS Sphinx 1775

History The Sphinx was the named ship of its class, designed by John Williams in

1773, almost two decades after the last batch of 20 gun ships. This class had finer

lines than the earlier designs, but more or less the same ...

lang:en **score:10** filesize: 187.09 M page\_count: 152 document date: 2021-09-06



### [\[pdf\]](#) User Manual

up! G12EVO 20C 5B1 BUP 66 vw br idhub content dam onehub pkw importers literatura de bordo manual

up

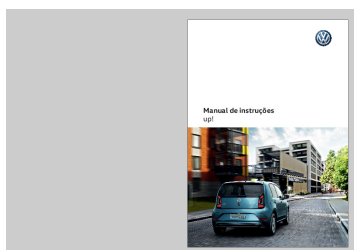
Manual de instrues up Certificado de garantia Certificado de garantia para o veculo

Volkswagen Apresente este certificado a uma Concessionria Volkswagen, caso seja

necessrio um servio em garantia. De acordo com os termos de garantia constantes

neste manual, a garantia entra em vigor a partir d...

lang:pt **score:10** filesize: 2.98 M page\_count: 245 document date: 2020-01-23



### [\[pdf\]](#) User Manual

MY 2020 20A 5B1 BUP 66 vw br idhub content dam onehub pkw importers literatura de bordo manual up

Manual de instrues up Certificado de garantia Certificado de garantia para o veculo

Volkswagen Apresente este certificado a uma Concessionria Volkswagen, caso seja

necessrio um servio em garantia. De acordo com os termos de garantia constantes

neste manual, a garantia entra em vigor a partir d...

lang:pt **score:10** filesize: 15.82 M page\_count: 245 document date: 2019-04-15



[illegible]

Terminal Strip Specifications IDEAL 15 juin 2024 — IDEAL® and Barrier Strips are designed  
manufactured to be rugged reliable easy use A ther moplasic base corrosion resistant 2 pages  
TerminalStrip idealind content dam electrical product categories wire connectors terminal strips resources  
|||

[\[pdf\]](#) Guide

2014

**IDEAL**

Wire Termination

Tests & Supplies

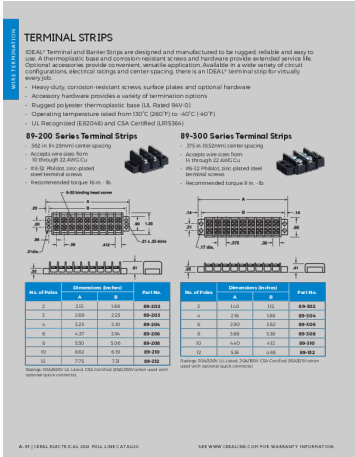
Strigimaster<sup>®</sup>  
Wire Cutters

Test & Measurement

Networks

**IDEAL**

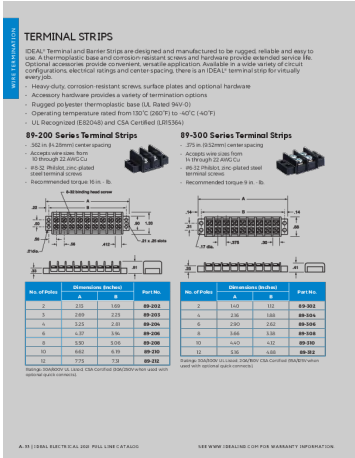
Electrical Products



[pdf] Dimension Guide Accessories

Untitled 2 Manufacturer Spec Sheet IDEAL 89 304 4P DBL ROW TERM STRIP Gordon Electric Supply Inc IdealIndustries 00256 A33 CAT images tradeservice 9ETBOIYK8205G6UU ATTACHMENTS DIR100334 |||

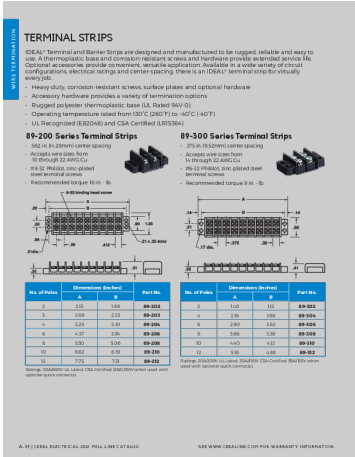
WIRE TERMINATION TERMINAL STRIPS IDEAL Terminal and Barrier Strips are designed and manufactured t ... 2.81 89-204 6 4.37 3.94 89-206 8 5.50 5.06 89-208 10 6.62 6.19 89-210 12 7.75 7.31 **89-212** Ratings: 30A/600V UL Listed, CSA Certified 30A/250V when used with optional quick connects ... lang:en score:10 filesize: 472.09 K page\_count: 1 document date: 2021-08-02



[pdf] Dimension Guide Accessories

Untitled 2 Manufacturer Spec Sheet IDEAL 89 310 10P DBL ROW TERM STRIP Gordon Electric Supply Inc IdealIndustries 00364 A33 CAT images tradeservice 9ETBOIYK8205G6UU ATTACHMENTS DIR100334 |||

WIRE TERMINATION TERMINAL STRIPS IDEAL Terminal and Barrier Strips are designed and manufactured t ... 2.81 89-204 6 4.37 3.94 89-206 8 5.50 5.06 89-208 10 6.62 6.19 89-210 12 7.75 7.31 **89-212** Ratings: 30A/600V UL Listed, CSA Certified 30A/250V when used with optional quick connects ... lang:en score:10 filesize: 472.09 K page\_count: 1 document date: 2021-08-09



[pdf] Dimension Guide Accessories Catalog

IDEAL Electrical Full Line Catalog New 2021 Page 89 210 IDL 10 CIRCUIT TERMINAL Kendall Electric Inc IDEALIndustries IDEALElectrical 00217 A33 CAT images tradeservice 67RP0R567XIGR4O8 ATTACHMENTS DIR100458 |||

WIRE TERMINATION TERMINAL STRIPS IDEAL Terminal and Barrier Strips are designed and manufactured t ... 2.81 89-204 6 4.37 3.94 89-206 8 5.50 5.06 89-208 10 6.62 6.19 89-210 12 7.75 7.31 **89-212** Ratings: 30A/600V UL Listed, CSA Certified 30A/250V when used with optional quick connects ... lang:en score:10 filesize: 532.41 K page\_count: 1 document date: 2024-02-10

[illegible]

WIRE TERMINATION TERMINAL STRIPS IDEAL Terminal and Barrier Strips are designed and manufactured t ... 2.81 89-204 6 4.37 3.94 89-206 8 5.50 5.06 89-208 10 6.62 6.19 89-210 12 7.75 7.31 **89-212** Ratings: 30A/600V UL Listed, CSA Certified 30A/250V when used with optional quick connects ...

lang:en score:9 filesize: 555.16 K page\_count: 2 document date: 2021-08-02

## TERMINAL STRIPS

IDEAL™ Terminal and Barrier Strips are designed and manufactured to be rugged, reliable and easy to use. A thermoplastic base and corrosion resistant screws and hardware provide elevated safety and performance. The strips are designed to be used in a wide variety of applications, including configurations, electrical strains and center spacing. There is an IDEAL™ terminal strip virtually available for every application.

- Heavy duty, corrosion resistant screws, surface plates and electrical hardware
- Accessory hardware provides a variety of termination options
- Rugged polyester thermoplastic base (UL 94V-0, 1.5mm to 4.0")
- Operating temperature range from 130°C (265°F) to 40°C (104°F)
- UL Recognized (E204048) and CSA Certified (140896)

### 89-200 Series Terminal Strips

Acceptance test per MIL-STD-883C

UL 94V-0, 1.5mm to 4.0"

W-32 2960s, oil plated steel terminal screws

Recommended torque 16 in. - lb.

Wt. off strip	Dimensions (Inch)	Part No.
1	1.00	89-200
2	1.00	89-201
3	2.00	89-202
4	2.00	89-203
6	4.00	89-204
8	4.00	89-205
8	3.00	89-206
10	3.00	89-207
12	3.00	89-208
12	2.00	89-209

Wt. off strip	Dimensions (Inch)	Part No.
1	1.00	89-210
2	1.00	89-211
3	2.00	89-212
4	2.00	89-213
6	4.00	89-214
8	4.00	89-215
8	3.00	89-216
10	3.00	89-217
12	3.00	89-218
12	2.00	89-219

Notes: 1. Standard screw length is 1/2" (12.7mm) unless otherwise specified.  
2. Screws are standard 1/4" (6.35mm) diameter.

For more information, contact your nearest IDEAL distributor or IDEAL Sales Office.

### 89-300 Series Terminal Strips

Acceptance test per MIL-STD-883C

UL 94V-0, 1.5mm to 4.0"

W-32 2960s, oil plated steel terminal screws

Recommended torque 8 in. - lb.

Wt. off strip	Dimensions (Inch)	Part No.
1	1.00	89-300
2	1.00	89-301
3	2.00	89-302
4	2.00	89-303
6	4.00	89-304
8	4.00	89-305
8	3.00	89-306
10	3.00	89-307
12	3.00	89-308
12	2.00	89-309

Wt. off strip	Dimensions (Inch)	Part No.
1	1.00	89-310
2	1.00	89-311
3	2.00	89-312
4	2.00	89-313
6	4.00	89-314
8	4.00	89-315
8	3.00	89-316
10	3.00	89-317
12	3.00	89-318
12	2.00	89-319

Notes: 1. Standard screw length is 1/2" (12.7mm) unless otherwise specified.  
2. Screws are standard 1/4" (6.35mm) diameter.

For more information, contact your nearest IDEAL distributor or IDEAL Sales Office.

A-19 | IDEAL ELECTRIC CORP. PULL LINE CATALOG

SEE WWW.IDEALCORP.COM FOR WARRANTY INFORMATION

WIRE TERMINATION TERMINAL STRIPS IDEAL Terminal and Barrier Strips are designed and manufactured t ... 2.81 89-204 6 4.37 3.94 89-206 8 5.50 5.06 89-208 10 6.62 6.19 89-210 12 7.75 7.31 **89-212** Ratings: 30A/600V UL Listed, CSA Certified 30A/250V when used with optional quick connects ...  
lang:en score:9 filesize: 555.16 K page\_count: 2 document date: 2021-08-09

[illegible]

WIRE TERMINATION TERMINAL STRIPS IDEAL Terminal and Barrier Strips are designed and manufactured t ... 2.81 89-204 6 4.37 3.94 89-206 8 5.50 5.06 89-208 10 6.62 6.19 89-210 12 7.75 7.31 **89-212** Ratings: 30A/600V UL Listed, CSA Certified 30A/250V when used with optional quick connects ...

lang:en score:9 filesize: 897.07 K page\_count: 2 document date: 2024-02-10

### Ball Valve Type 546 Pro

Ball Valve Type 546 Pro, manually operated



### Product description

The Ball Valve Type SPS Pro is the ideal valve for use in applications ranging from simple water applications right up to demanding chemical processes. Its modular construction guarantees simple operation, flexibility, universal automation options and the greatest possible process safety.

## Function

The ball valve uses a rotating ball with a hole through it that allows straight-through flow in the open position and shuts off flow when the ball is rotated 90° to block the flow passage. This valve is mainly used for open/close functions and for regulating services.

## Applications

- Chemical process industry
- Water treatment
- Microelectronics
- Measurement and control
- Shipbuilding
- Food & beverage

[\[pdf\]](#) User Manual Datasheet Accessories

Datasheet Ball Valve Type 546 Pro Jul 22 2022 — electric pneumatic or manual operation including optional accessories it flexibly meets all requirements Lockable lever equipped as standard 30 pages gfps datasheet pro ball valve en content dam com datasheets |||

Datasheet Ball Valve Type 546 Pro Ball Valve Type 546 Pro, manually operated Ball Valve Type 546 Pro Product description The Ball Valve Type 546 Pro is the ideal valve for use in applications ranging from simple water applications right up to demanding chemical processes. Its modular construction ...

lang:en score:9 filesize: 11.07 M page\_count: 30 document date: 2022-07-05

[\[pdf\]](#) Accessories

Product Spec Sheet Ideal 89 330 Terminal Strip Jumper Flat Slip On 3 8 Center Spacing 100 Pk Cooper  
Electric IDELINE01038 A34 A35 images tradeservice hmqn8RVwp2oN4tyv ATTACHMENTS DIR100162

Wire Termination [www.idealind.com](http://www.idealind.com) 1-800-435-0705 Customer Assistance Terminal Strips Accessories ... 2.81 89-204 6 4.37 3.94 89-206 8 5.50 5.06 89-208 10 6.62 6.19 89-210 12 7.75 7.31 **89-212** Ratings: 30A/600V UL Listed, CSA Certified 30A/250V when used with optional quick connects ...


lang:en score:9 filesize: 192.76 K page\_count: 2 document date: 2017-02-13

## Terminal Strips & Accessories

IDEAL Terminal and Barrier Strips are designed and manufactured to be rugged, reliable and easy to use. A thermoplastic base and corrosion-resistant screws and hardware provide extended service life. Optional accessories provide convenient, versatile application. Available in a wide variety of circuit configurations, electrical ratings and center-spacing, there is an IDEAL terminal strip for virtually every job.

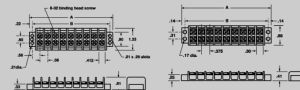
- Heavy-duty, corrosion-resistant screws, surface plates and optional hardware
- Accessory hardware provides a variety of termination options
- Rugged polyester thermoplastic base (UL fluted 94V-0)
- Operating temperature rated from 130°C (265°F) to -40°C (-40°F)
- UL Recognized (E3244) and CSA Certified (LR15384)

### 89-200 Series Terminal Strips

- .562" (14.28mm) center spacing
  - Accepts wire sizes from 10 through 22 AWG Cu
  - #8-32 Phinlock, zinc-plated steel terminal screws
  - Recommended torque: 16 in. - lb.
- 

### 89-200 Series Terminal Strips

- .375" (9.52mm) center spacing
  - Accepts wire sizes from 14 through 22 AWG Cu
  - #6-32 Phinlock, zinc-plated steel terminal screws
  - Recommended torque: 9 in. - lb.
- 



No. of Poles	Dimensions (inches)		Part No.
	A	B	
2	2.10	1.68	09-202
3	2.80	2.25	09-203
4	2.25	2.80	09-204
6	4.37	3.94	09-206
8	5.30	5.08	09-208
10	6.62	6.19	09-210
12	7.76	7.31	09-212

No. of Poles	Dimensions (inches)		Part No.
	A	B	
2	1.41	1.12	09-202
4	2.39	1.98	09-204
6	3.33	2.62	09-206
8	3.85	3.38	09-208
10	4.41	4.02	09-210
12	5.10	4.68	09-212

Ratings: 30A/000V UL Listed, 20A/150V CSA Certified (30A/150V when used with optional cord connect).

Ratings: 30A/600V UL Listed, CSA Certified (30A/250V when used with opto-net quick-connect).