ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

**Artisan Technology Group**
(217) 352-9330 | sales@artisantg.com | artisantg.com

**Full-service, independent repair center**
with experienced engineers and technicians on staff.

**We buy your excess, underutilized, and idle equipment**
along with credit for buybacks and trade-ins.

**Custom engineering**
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

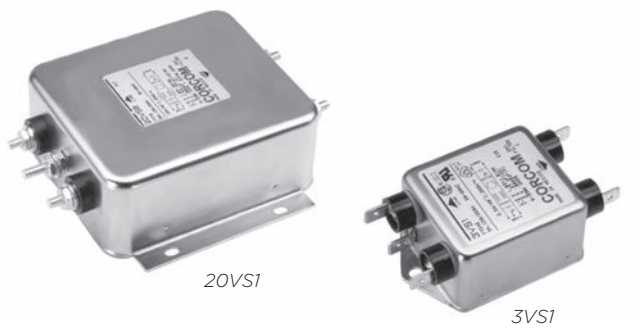
**Expert team | Trust guarantee | 100% satisfaction**

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *TE Connectivity / Corcom 10VS1* at our website: *Click HERE*

# S Series

UL Recognized
CSA Certified
VDE Approved




## S Series

- Combines Line to Ground interference rejection filters with additional circuitry to reduce Line to Line noise and transients
- Designed for use when equipment impedance at RF frequencies is high
- Effective for use with switch-mode power supplies
- Effective when used to control emissions in equipment using SCR and T2L circuits for compliance with FCC Part 15, Subpart J and EN55022, Level A, down to 150kHz

## Ordering Information

20 V S 6

- 6 – Input / Output Style
  1 – .250 [6.3] spade terminals
  6 – Threaded bolt
- S – S Series
- V – Leakage current designation
  V – Standard
- 20 – Current Rating
  3, 6, 10, 20 or 60A

## Available Part Numbers

| | |
|---|---|
| 3VS1 | 20VS1 |
| 6VS1 | 20VS6 |
| 10VS1 | 60VS6 |

## Specifications

**Maximum leakage current each Line to Ground:**

| | 3 & 20A | 60A |
|---|---|---|
| @120 VAC 60 Hz: | .4 mA | .75 mA |
| @250 VAC 50 Hz: | .7 mA | 1.25 mA |

**Hipot rating (one minute):**

| | |
|---|---|
| Line to Ground: | 2250 VDC |
| Line to Line: | 1450 VDC |

**Rated Voltage (max):** 250 VAC

**Operating Frequency:** 50/60 Hz

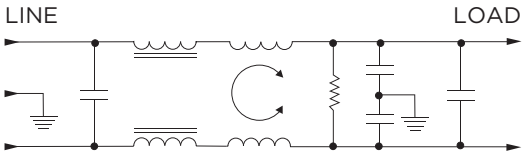
**Rated Current:** 3 to 60A

**Operating Ambient Temperature Range (at rated current $I_r$):** -10°C to +40°C

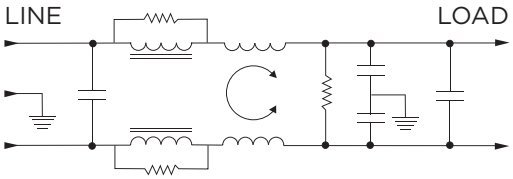
In an ambient temperature ($T_a$) higher than +40°C the maximum operating current ($I_o$) is calculated as follows: $I_o = I_r \sqrt{(85-Ta)/45}$

## Electrical Schematics

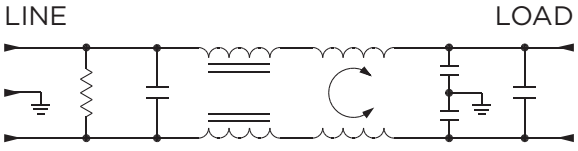
### 3, 6, 10VS




### 20VS




### 60VS






Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

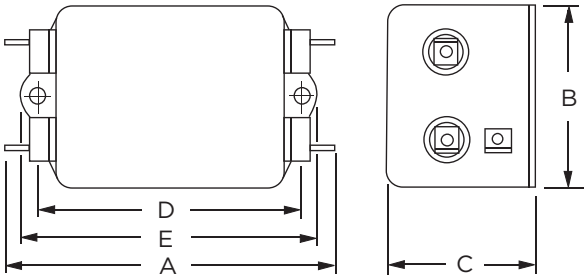
For email, phone or live chat, please go to
**te.com/help**
**corcom.com**

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

# S Series

## Case Styles

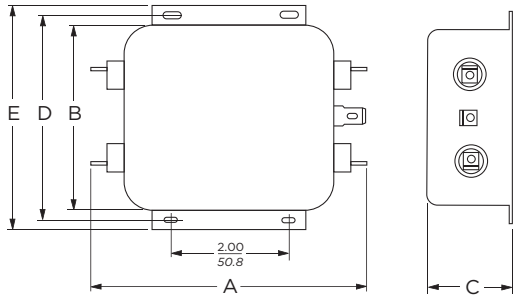
### S1 (3, 6, 10A)




Typical Dimensions:

| | |
|---|---|
| Line/Load Terminals (4): | .250 [*6.3*] with .07 [*1.8*] Dia. hole |
| Ground Terminal (1): | .250 [*6.3*] with .07 x .16 [*1.8 x 3.8*] slot |
| Mounting Holes (2): | .188 [*4.78*] Dia. |

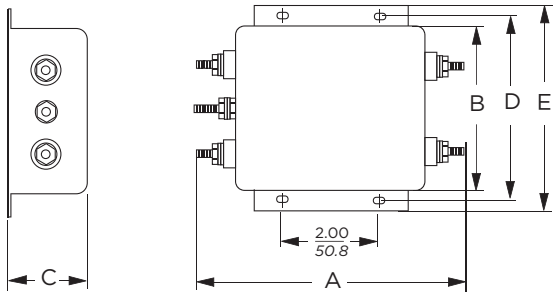
### 20VS1




Typical Dimensions:

| | |
|---|---|
| Line/Load Terminals (4): | .250 [*6.3*] with .07 [*1.8*] Dia. hole |
| Ground Terminal (1): | .250 [*6.3*] with .07 x .16 [*1.8 x 3.8*] slot |
| Mounting Slots (4): | .250 x .156 [*6.35 x 3.96*] Dia. |

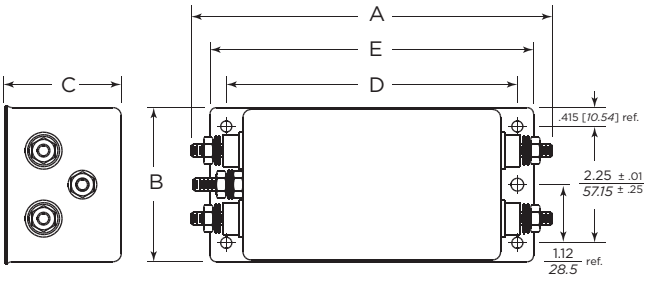
### 20VS6




Typical Dimensions:

| | |
|---|---|
| Terminals (5): | 8-32, Torque 18 lbf-in. [*2.03* N-m] max. ± 2 [*.22*] |
| Mounting Slots (4): | .250 x .156 [*6.35 x 3.96*] Dia. |

### 60VS6




Typical Dimensions:

| | |
|---|---|
| Terminals (5): | 1/4-20, Torque 56 lbf-in. [*6.32* N-m] max. ± 2 [*.22*] |
| Mounting Holes (5): | .218 [*5.53*] Dia. ± .006 [*.152*] |

## Case Dimensions

| Part No. | A (max) | B (max) | C (max) | D ± .015 / ± .38 | E (max) |
|---|---|---|---|---|---|
| 3VS1 | **3.36** | **1.82** | **1.16** | **2.375** | **2.78** |
| | *85.3* | *46.2* | *29.5* | *60.33* | *70.6* |
| 6VS1 | **3.86** | **2.08** | **1.53** | **2.938** | **3.34** |
| | *98.0* | *52.8* | *38.9* | *74.63* | *84.8* |
| 10VS1 | **3.86** | **2.08** | **1.53** | **2.938** | **3.34** |
| | *98.0* | *52.8* | *38.9* | *74.63* | *84.8* |
| 20VS1 | **5.23** | **3.38** | **1.53** | **3.75** | **4.20** |
| | *132.8* | *85.9* | *38.9* | *95.25* | *106.7* |
| 20VS6 | **5.34** | **3.38** | **1.53** | **3.75** | **4.20** |
| | *135.6* | *85.9* | *38.9* | *95.25* | *106.7* |
| 60VS6 | **7.2** | **3.08** | **2.28** | **5.625** | **6.25** |
| | *182.88* | *78.23* | *57.91* | *142.87* | *158.75* |





Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

For email, phone or live chat, please go to **te.com/help** **corcom.com**

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

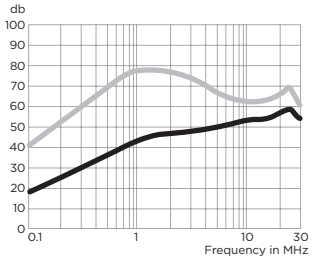
# S Series

## Performance Data

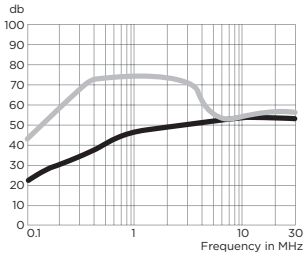
### Typical Insertion Loss

Measured in closed 50 Ohm system

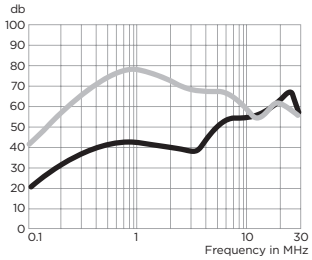
#### 3VS



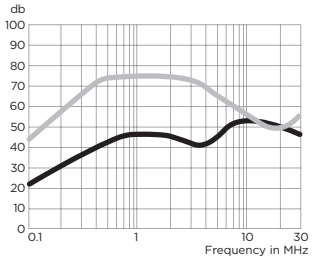

#### 6VS



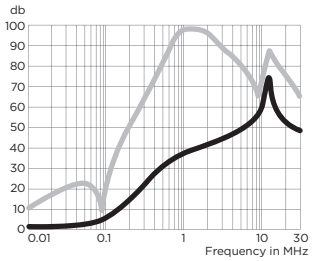

#### 10VS




#### 20VS




#### 60VS




Common Mode / Asymmetrical (L-G)
Differential Mode / Symmetrical (L-L)

### Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

| Current Rating | Frequency – MHz | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | .15 | .5 | 1 | 2 | 5 | 10 | 20 | 30 |
| 3A | 15 | 27 | 35 | 40 | 32 | 44 | 47 | 47 |
| 6A | 15 | 27 | 35 | 40 | 32 | 44 | 47 | 47 |
| 10A | 15 | 27 | 35 | 40 | 32 | 44 | 47 | 47 |
| 20A | 15 | 30 | 38 | 38 | 32 | 43 | 42 | 40 |
| 60A | 7 | 27 | 34 | 38 | 45 | 54 | 44 | 40 |

Differential Mode / Symmetrical (Line to Line)

| Current Rating | Frequency – MHz | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | .15 | .3 | .5 | 1 | 2 | 5 | 10 | 20 | 30 |
| 3A | 35 | 50 | 65 | 65 | 65 | 60 | 50 | 40 | 45 |
| 6A | 35 | 50 | 65 | 65 | 65 | 60 | 45 | 48 | 48 |
| 10A | 35 | 50 | 65 | 65 | 65 | 60 | 50 | 40 | 45 |
| 20A | 35 | 50 | 65 | 65 | 65 | 60 | 45 | 48 | 48 |
| 60A | 37 | - | 77 | 93 | 86 | 70 | 54 | 64 | 54 |



Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

For email, phone or live chat, please go to
**te.com/help**
**corcom.com**

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

**Artisan Technology Group** is an independent supplier of quality pre-owned equipment

## Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

## We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

## Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP