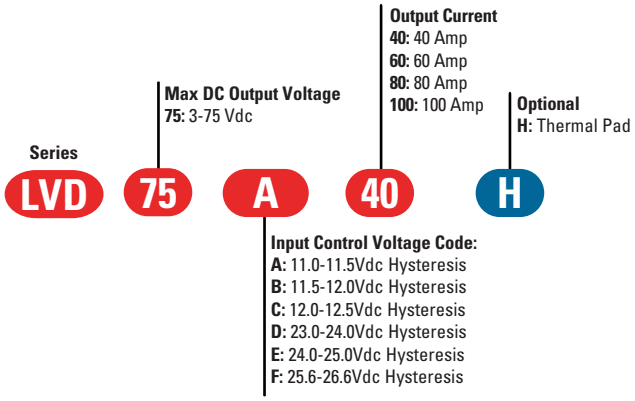
LVD Series

- Low Voltage Disconnect
- Output Ratings from 40A to100A @ 3-75 VDC
- Low On-State Resistance FET Output
- Six DC control Ranges Available for 12 & 24VDC Battery Systems
- Compact Encapsulated Panel Mount Package

PRODUCT SELECTION

Control Voltage	40 A	60 A	80 A	100 A
11.0-11.5 VDC	LVD75A40	LVD75A60	LVD75A80	LVD75A100
11.5-12.0 VDC	LVD75B40	LVD75B60	LVD75B80	LVD75B100
12.0-12.5 VDC	LVD75C40	LVD75C60	LVD75C80	LVD75C100
23.0-24.0 VDC	LVD75D40	LVD75D60	LVD75D80	LVD75D100
24.0-25.0 VDC	LVD75E40	LVD75E60	LVD75E80	LVD75E100
25.6-26.6 VDC	LVD75F40	LVD75F60	LVD75F80	LVD75F100

AVAILABLE OPTIONS



Required for valid part number
For options only and not required for valid part number

OUTPUT SPECIFICATIONS (1)

Description	40A	60A	80A	100A
Operating Voltage [Vdc]	3-75	3-75	3-75	3-75
Maximum Load Current [Adc] (2)	40	60	80	100
Minimum Load Current [mAdc]	5	5	5	5
Maximum Surge Current (10msec) [Adc]	120	180	220	250
Maximum On-State Voltage Drop @ Rated Current [Vdc]	0.6	0.6	0.64	0.5
Thermal Resistance Junction to Case (Rjc) [°C/W]	1.2	1.0	0.5	0.4
Max On-state Resistance @ rated current (Rds-on) [mOhms]	15	10	8	5
Maximum Off-State Leakage Current @ Rated Voltage [mA]	0.5	0.5	0.5	0.5

INPUT SPECIFICATIONS (1)

Description	LVD75Axx	LVD75Bxx	LVD75Cxx	LVD75Dxx	LVD75Exx	LVD75Fxx
Must Turn-On Voltage [Vdc] (3)	11.5	12	12.5	24	25	26.6
Must Turn-Off Voltage [Vdc] (3)	11	11.5	12	23	24	25.6
Maximum Allowed input Voltage [Vdc]	36	36	36	36	36	36
Maximum Input Current [mAdc]	12	12	12	12	12	12
Maximum Turn-On Time [msec]	150	150	150	150	150	150
Maximum Turn-Off Time [msec]	150	150	150	150	150	150

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GENERAL SPECIFICATIONS

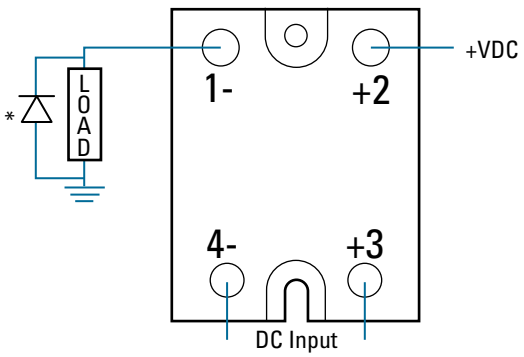
Description	Parameters
Dielectric Strength, Input/Output to Baseplate (60Hz) (4)	2500 Vrms
Minimum Insulation Resistance (@ 500 VDC)	10^9 Ohm
Maximum Capacitance, Input/Output	50 pF
Ambient Operating Temperature Range	-30°C to 80°C
Ambient Storage Temperature Range	-40°C to 125°C
Weight (typical)	3.5 oz. (100g)
Terminals	Hardware Furnished, mounted
Input Terminal Screw Torque Range:	8-10 in lb (0.9-1.1Nm)
Output Terminal Screw Torque Range:	18-20 in lb (2-2.2Nm)

GENERAL NOTES

(1) All parameters at 25°C unless otherwise specified.
(2) Heat Sinking required, see derating curves.
(3) Tolerance + 0.15Vdc
(4) All four terminals shorted together during test.

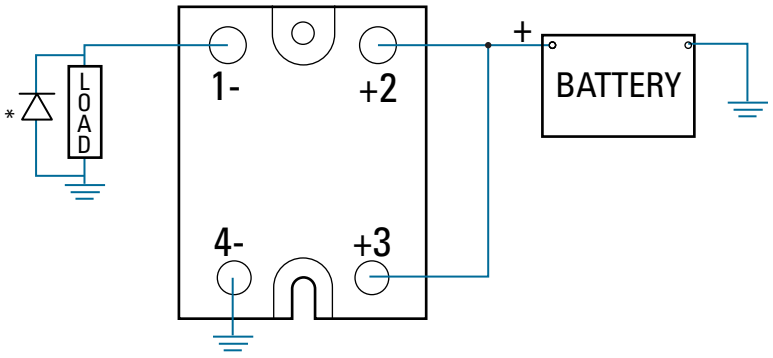
WIRING DIAGRAM

Basic Wiring Diagram



* Load should be diode suppressed to prevent damage to SSR

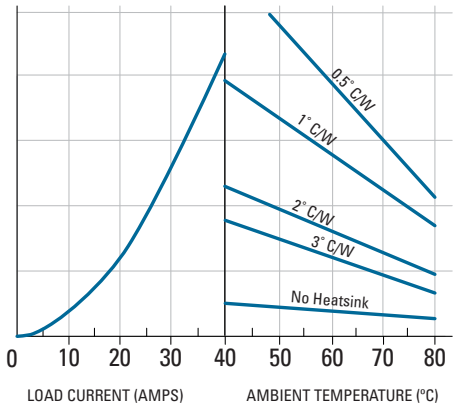
Typical LVD Connection Diagram



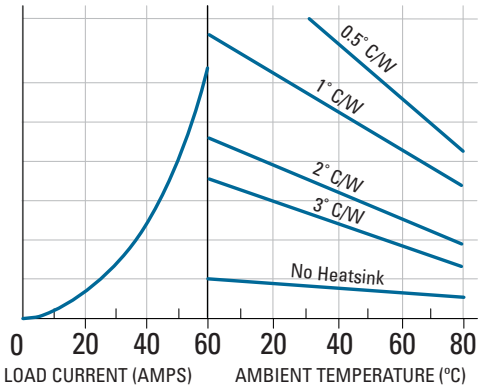
NOTE: When wired as above the maximum voltage is limited to 36 VDC.

THERMAL DERATE INFORMATION

40 Amps



60 Amps



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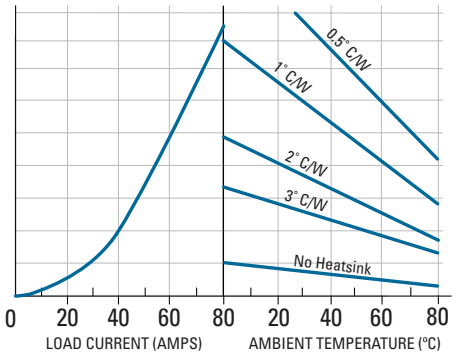
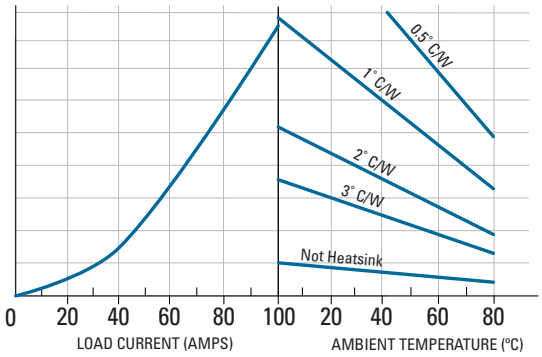
THERMAL DERATE INFORMATION

80 Amps

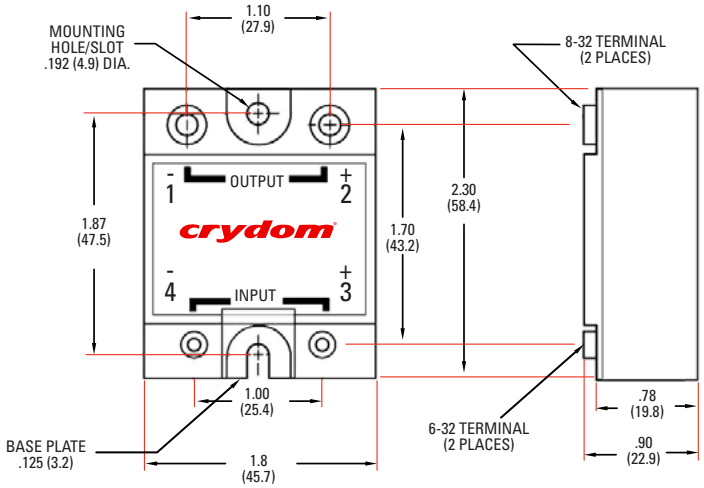


100 Amps



MECHANICAL SPECIFICATIONS

Tolerances: ±0.02 in / 0.5 mm
All dimensions are in: inches [millimeters]



AGENCY APPROVALS

Agency Approvals

Designed in accordance with the requirements of IEC 62314

RoHS

Rev. 032712

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⚠ DANGER / PELIGRO / DANGER /GEFAHR / PERICOLO / 危险

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH.

- Disconnect all power before installing or working with this equipment.
- Verify all connections and replace all covers before turning on power.

Failure to follow these instructions will result in death or serious injury.

RIESGO DE DESCARGA ELECTRICA O EXPLOSION.

- Desconectar todos los suministros de energia a este equipo antes de trabajar con este equipo.
- Verificar todas las conexiones y colocar todas las tapas antes de energizer el equipo.

El incumplimiento de estas instrucciones puede provocar la muerte o lesiones serias.

RISQUE DE DESCHARGE ELECTRIQUE OU EXPLOSION

- Eteindre toutes les sources d'énergie de cet appareil avant de travailler dessus de cet appareil
- Vérifier tous connections, et remettre tous couverts en olace avant de mettre sous

De non-suivi de ces instructions provoquera la mort ou des lésions sérieuses sérieuses.

GEFAHR EINES ELEKTRISCHE N SCHLAGES ODER EINER EXPLOSION.

- Stellen Sie jeglichen Strom ab, der dieses Gerät versorgt, bevor Sie an dem Gerät Arbeiten durchführen
- Vor dem Drehen auf Energie alle Anschlüsse überprüfen und alle Abdeckungen ersetzen.

Unterlassung dieser Anweisungen können zum Tode oder zu schweren Verletzungen führen.

RISCHIO DI SCOSSA ELETTRICA O DELL'ESPLOSIONE.

- Spenga tutta l'alimentazione che fornisce questa apparecchiatura prima di lavorare a questa apparecchiatura
- Verificare tutti i collegamenti e sostituire tutte le coperture prima dell'accensione

L'omissione di queste istruzioni provocherà la morte o lesioni serie

存在电击、爆炸或电弧闪烁危险

- 在操作此设备之前请先关闭电源。

若不遵守这些说明，可能会导致严重的人身伤害甚至死亡。

⚠ WARNING / AVERTISSEMENT / WARNUNG /ADVERTENCIA / AVVERTENZA / 警告

RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE

- The product's side panels may be hot, allow the product to cool before touching.
- Follow proper mounting instructions including torque values.
- Do not allow liquids or foreign objects to enter this product.

Failure to follow these instructions can result in serious injury, or equipment damage.

RISQUE DE DOMMAGE MATERIEL ET DE SURCHAUFFE DU BOITIER

- Les panneaux latéraux du produit peuvent être chauds. Laisser le produit refroidir avant de le toucher.
- Respecter les consignes de montage, et notamment les couples de serrage.
- Ne pas laisser pénétrer de liquide ni de corps étrangers à l'intérieur du produit.

Le non-respect de cette directive peut entraîner, des lésions corporelles graves ou des dommages matériels.

GEFAHR VON MATERIALSCHÄDEN UND GEHÄUSEERHITZUNG

- Die Seitenwände können heiß sein. Lassen Sie das Produkt abkühlen, bevor Sie es berühren.
- Beachten Sie die Montageanweisungen,
- Führen Sie keine Flüssigkeiten oder Fremdkörper in das Produkt ein.

Die Nichtbeachtung dieser Anweisung kann Körperverletzung oder Materialschäden zur Folge haben.

RIESGO DE DAÑOS MATERIALES Y DE SOBRECALENTAMIENTO DE LA UNIDAD

- Los paneles laterales del producto pueden estar calientes. Esperar que el producto se enfríe antes de tocarlo.
- Respetar las instrucciones de montaje, y en particular los pares de apretado.
- No dejar que penetren líquidos o cuerpos extraños en el producto.

Si no se respetan estas precauciones pueden producirse graves lesiones, daños materiales.

RISCHIO DI DANNI MATERIALI E D'INVOLUCRO CALDO

- I pannelli laterali dell'apparecchio possono scottare; lasciar quindi raffreddare il prodotto prima di toccarlo.
- Seguire le istruzioni di montaggio corrette.
- Non far entrare liquidi o oggetti estranei in questo apparecchio.

La mancata osservanza di questa precauzione può causare gravi rischi per l'incolumità personale o danni alle apparecchiature.

材料损坏和高温外壳的危险性

- 产品的一侧面板可能很热，在其冷却前请不要触碰。
- 遵照正确的安装说明，包括扭矩值。
- 请勿让液体及其他异物进入本产品。

如不能正确执行这些操作说明，极有可能造成严重人体伤害或者设备的损坏。

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ANNEX - ENVIROMENTAL INFORMATION

The environmental information disclosed in this annex including the EIP Pollution logo are in compliance with People's Republic of China Electronic Industry Standard SJ/T11364 – 2006, Marking for Control of Pollution Caused by Electronic Information Products.

Part Name	Toxic or hazardous Substance and Elements					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr (VI))	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Semiconductor die	X	O	O	O	O	O
Solder	X	O	O	O	O	O

附件 - 环保信息

此附件所标示的包括电子信息产品污染图标的环保信息符合中华人民共和国电子行业标准 SJ/T11364 - 2006, 电子信息产品污染控制标识要求。

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
半导体芯片	X	O	O	O	O	O
焊接点	X	O	O	O	O	O

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Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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