

Solid State Relays - continued

5A to 40A Surface Mounting - continued

G3NA Series - continued

207052

| Load Current | Order Code | Price Each | | |
|----------------------------------|------------|------------|----------|----------|
| | | 1+ | 20+ | 100+ |
| AC Input - 240V ac Output | | | | |
| 10A | 118-1254 | 1,485.00 | 1,411.00 | 1,337.00 |
| 20A | 118-1255 | 1,634.00 | 1,552.00 | 1,470.00 |
| 40A | 118-1256 | 2,573.00 | 2,445.00 | 2,316.00 |
| DC Input - 240V ac Output | | | | |
| 5A | 118-1258 | 1,015.00 | 964.00 | 914.00 |
| 10A | 118-1259 | 1,151.00 | 1,094.00 | 1,036.00 |
| 20A | 118-1260 | 1,491.00 | 1,417.00 | 1,343.00 |
| 40A | 118-1261 | 2,276.00 | 2,163.00 | 2,048.00 |
| DC Input - 200V dc Output | | | | |
| 10A | 118-1262 | 2,831.00 | 2,690.00 | 2,548.00 |

Power Series

OPTO 22



- Lifetime Guarantee
- Zero voltage turn-on
- Zero current turn-off
- Built-in snubber
- 200% tested at 0.5 power factor
- 4000 volt isolation
- TTL compatible
- High PRV rating
- AC and DC input variants available

- Safety cover available
- Operating temp -40° to 100°C
- Input to output coupling capacitance 8PF max.
- UL recognised & CSA approved

| Nominal Current Rating (Amps) | 1 Cycle Surge (Amps) Peak | Signal Pick-up Voltage | Signal Drop-out Voltage | Off Stage Leakage mA max. | Operating AC Voltage Range | I ² t Rating t = 8.3 ms | Order Code |
|----------------------------------|---------------------------|------------------------|-------------------------|---------------------------|----------------------------|------------------------------------|------------|
| AC Input - 240V ac Output | | | | | | | |
| 10 | 110 | 85V ac 280 allowed | 10V ac | 14mA | 24 - 480 | 50 | 722-8960 |
| 25 | 250 | 85V ac 280 allowed | 10V ac | 14mA | 24 - 480 | 250 | 722-8971 |
| 45 | 650 | 85V ac 280 allowed | 10V ac | 14mA | 24 - 480 | 1750 | 722-8983 |
| DC Input - 240V ac Output | | | | | | | |
| 3 | 85 | 3V dc 32V allowed | 1V dc | 5mA | 24 - 280 | 30 | 722-8995 |
| 10 | 110 | 3V dc 32V allowed | 1V dc | 14mA | 24 - 280 | 50 | 722-9008 |
| 25 | 250 | 3V dc 32V allowed | 1V dc | 14mA | 24 - 280 | 250 | 722-9010 |
| 45 | 650 | 3V dc 32V allowed | 1V dc | 14mA | 24 - 280 | 1750 | 722-9021 |
| DC Input - 480V ac Output | | | | | | | |
| 10 | 110 | 3V dc 32V allowed | 1V dc | 11mA | 100 - 530 | 50 | 722-9033 |
| 25 | 250 | 3V dc 32V allowed | 1V dc | 11mA | 100 - 530 | 250 | 722-9045 |
| DC Input - 575V ac Output | | | | | | | |
| 45 | 650 | 3V dc 32V allowed | 1V dc | 15mA | 100 - 600 | 1750 | 722-9057 |

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| Mfrs. List No. | Order Code | 1+ | 10+ | 25+ | 50+ | + |
|----------------|------------|----------|----------|----------|----------|----|
| 240A10 | 722-8960 | 1,508.00 | 1,337.00 | 1,258.00 | 1,126.00 | -- |
| 240A25 | 722-8971 | 1,609.00 | 1,438.00 | 1,342.00 | 1,277.00 | -- |
| 240A45 | 722-8983 | 2,164.00 | 1,934.00 | 1,805.00 | 1,716.00 | -- |
| 240D3 | 722-8995 | 1,156.00 | 963.00 | 945.00 | 872.00 | -- |
| 240D10-17 | 722-9008 | 1,740.00 | 1,451.00 | 1,340.00 | 1,313.00 | -- |
| 240D25-17 | 722-9010 | 1,862.00 | 1,552.00 | 1,433.00 | 1,405.00 | -- |
| 240D45-17 | 722-9021 | 2,043.00 | 1,704.00 | 1,572.00 | 1,541.00 | -- |
| 480D10-12 | 722-9033 | 2,165.00 | 1,805.00 | 1,770.00 | 1,633.00 | -- |
| 480D25-12 | 722-9045 | 2,366.00 | 1,972.00 | 1,935.00 | 1,785.00 | -- |
| 575D45-12 | 722-9057 | 3,300.00 | 2,750.00 | 2,539.00 | 2,412.00 | -- |
| SAFETY COVER | 722-9069 | 131.00 | 108.00 | 100.00 | -- | -- |

25A DC Switching - High Voltage

800 to 1000V dc rated



H=47.5, W=45.7, D=22.9mm

A range of DC switching Solid State Relays in a robust panel mount package. Loads of upto 25 Amps may be switched at voltages of 1000V dc, delivering greatly improved reliability over electro-mechanical devices. 800 V rated models include over voltage protection. Available with control voltages from 12 to 36V dc. Suitable for switching pumps, motor brakes, solenoids and heating elements.

- Solid State Switch - High Reliability.
- DC Load Switching upto 1000Vdc.
- Built in Over-Voltage Protection (800V Model)

- Robust Panel Mount Construction.
- IGBT Output
- Surface Mount Technology.

Input Specifications

| Nominal Voltage | 12V dc | 24V dc |
|---------------------------------|------------|-------------|
| Control voltage | 8 - 16V dc | 20 - 28V dc |
| Turn on voltage - Max | 8V dc | 20V dc |
| Turn on voltage - Min | 1V dc | 1V dc |
| Input impedance | 780R | 1500R |
| Input current @ nominal voltage | 15 mA | 15 mA |

Output Specifications

| Operating voltage | SSC800 Series | SSC1000 Series |
|----------------------------|---------------------|----------------------|
| Load current, min. (A rms) | 0 - 800V dc 20mA | 0 - 1000V dc 20mA |
| Load current, max. (A rms) | 25A | 25A |
| Surge current | 75A | 75A |
| Leakage current | 0.3mA | 0.3mA |
| Turn on/off time | 1.5/1.5ms | 1.5/1.5ms |

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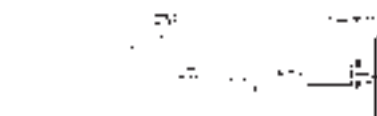
| Mfrs. List No. | Nominal Control voltage | Order Code | 1+ | 5+ | 10+ |
|----------------|-------------------------|------------|----------|----------|----------|
| SSC800-25-12 | 12V dc | 121-3173 | 7,863.00 | 7,314.00 | 7,168.00 |
| SSC800-25-24 | 24V dc | 121-3170 | 7,863.00 | 7,314.00 | 7,168.00 |
| SSC1000-25-12 | 12V dc | 121-3172 | 9,435.00 | 8,775.00 | 8,500.00 |
| SSC1000-25-24 | 24V dc | 121-3171 | 9,435.00 | 8,775.00 | 8,500.00 |

7A to 40A DC Switching, Surface Mounting



Series 1 (DC)

MOSFET Output



- DC input/DC output solid-state relays with power MOSFET output
- Low on-state resistance, fast switching
- Control can be driven from most logic circuits requiring less than 1.6mA at 5Vdc
- DC control signal activates a 50kHz oscillator which is transformer coupled to the output

| Input voltage | 3.5 - 32V dc | Isolation | 2500V rms |
|----------------------|--------------------------------|--|------------------------|
| Input current (max.) | 1.6mA @ 5V dc 28mA @ 32V dc | Load current (min.) Turn-on/turn-off (max.) | 20mA dc 0.1ms/1.0ms |

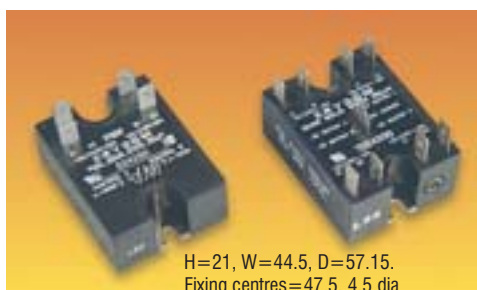
| Load Current | Load Voltage (max.) | On-state Resistance (max.) | Surge Current (10ms) | Mfrs. List No. | Order Code |
|----------------------|---------------------|----------------------------|----------------------|----------------|------------|
| 7A | 100V dc | 0.29Ω | 15A | D1D07 | 120-0291 |
| 12A | 100V dc | 0.13Ω | 28A | D1D12 | 120-0292 |
| 20A | 100V dc | 0.1Ω | 42A | D1D20 | 120-0293 |
| 40A | 100V dc | 0.05Ω | 106A | D1D40 | 120-0294 |
| 7A | 200V dc | 0.29Ω | 22A | D2D07 | 120-0295 |
| 12A | 200V dc | 0.23Ω | 27A | D2D12 | 120-0296 |
| 7A | 500V dc | 0.8Ω | 19A | D5D07 | 120-0297 |
| 10A | 500V dc | 0.55Ω | 29A | D5D10 | 120-0298 |
| Thermal Transfer Pad | | | | TP01 | 120-0269 |

Note: SSRs use semiconductor output devices therefore protective fuses should be semiconductor (ultra fast) type

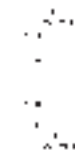
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| Load Rating | Order Code | 1+ | 10+ | 25+ | 50+ | + |
|----------------------|------------|----------|----------|----------|----------|----|
| 7A @ 100V dc | 120-0291 | 2,563.00 | 2,359.00 | 2,309.00 | 2,262.00 | -- |
| 12A @ 100V dc | 120-0292 | 2,807.00 | 2,584.00 | 2,526.00 | 2,476.00 | -- |
| 20A @ 100V dc | 120-0293 | 3,050.00 | 2,807.00 | 2,747.00 | 2,692.00 | -- |
| 40A @ 100V dc | 120-0294 | 3,378.00 | 3,108.00 | 3,042.00 | 2,980.00 | -- |
| 7A @ 200V dc | 120-0295 | 3,320.00 | 2,850.00 | 2,606.00 | 2,327.00 | -- |
| 12A @ 200V dc | 120-0296 | 3,577.00 | 3,071.00 | 2,808.00 | 2,507.00 | -- |
| 7A @ 500V dc | 120-0297 | 3,904.00 | 3,352.00 | 3,065.00 | 2,736.00 | -- |
| 10A @ 500V dc | 120-0298 | 4,890.00 | 4,198.00 | 3,839.00 | 3,427.00 | -- |
| Thermal Transfer Pad | 120-0269 | 45.00 | 40.00 | 37.00 | 35.00 | -- |

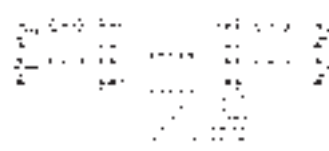
20A to 40A Dual and Quad Output



H=21, W=44.5, D=57.15. Fixing centres=47.5, 4.5 dia



Dual Output



Quad Output

Prices are in Thai Baht and exclude 7% VAT. Due to the volatile nature of certain products, prices are subject to change without notice.