280 VOLT DUAL SOLID STATE RELAYS

- 40 amp dual AC output relays
- Output voltage from 24 to 280 Vac
- Direct bond copper substrate
- Back to back dual SCR output
- 4000 Vac optical isolation
- Zero crossing or random turn on
- UL/cUL Recognized, CE Compliant







Obsolete

Output Specifications

Voltage range (Vrms)	**24-280Vac**	
Peak Voltage (Vpk , t = I min.)	550	
Off-state leakage mArms (@ max. line voltage & Ta = 25ºC)	0.1	
Output Current (Mounted on proper heat sink, see deratings)	**25**	**40**
Minimum Current (mArms)	100	100
1 cycle surge current 50-60 Hz (Apk, Ta = 25ºC)	275-300	710-750
1 second surge current 50/60 Hz (Apk, Ta = 25ºC)	85	150
Forward voltage drop (Vpk @ Imax, Ta = 25ºC)	1.4	1.3
I^2T (50-60Hz, ½ cycle)	380-370	2520-2320
Rjb (thermal res. Junction to baseplate, ºC/W)	0.6	0.4
Static off-state dv/dt (Vµs, Ta = 25ºC)	500	500

Input Specifications

Input voltage	**4-15Vdc**	**17-32Vdc**
Drop out voltage	1Vdc	1Vdc
Min. input current (for on-state)	7.5mA	13mA
Maximum input current	34mA	24mA
Input Resistance (Ohms)	500	1500
Turn-on time*	8.33msec	8.33msec
Turn-off time	8.33msec	8.33msec

*** Random SSR's turn on in less than 100µs**

General Characteristics

Operating Temperature (ºC)	-40 to + 80
Storage Temperature (ºC)	-40 to + 100
Input to output isolation	4000Vrms
Input/output to ground isolation	2500Vrms
Input to output capacitance	8pF (typical)
Operating Frequency	47 to 63 Hz
Housing Material	UL 94V0 (self extinguishing

Standards of Compliance

CE Compliant with the LVD 73/23/EEC

UL / cUL Recognized per UL 508 and CSA C22.2 no. 14-M91

See next page thermal curves.

Part Numbers — 1/4" Quick Connect

QC, Standard Input Pins

Zero Crossing Output

Rating	Output	Input	Part Number
25 Amp	24-280Vac	4-15Vdc	84140000
25 Amp	24-280Vac	17-32Vdc	84140010
40 Amp	24-280Vac	4-15Vdc	84140200
40 Amp	24-280Vac	17-32Vdc	84140210

Random Fire Output

Rating	Output	Input	Part Number
25 Amp	24-280Vac	4-15Vdc	84140100
25 Amp	24-280Vac	17-32Vdc	84140110
40 Amp	24-280Vac	4-15Vdc	84140300
40 Amp	24-280Vac	17-32Vdc	84140310

Part Numbers — Locking Connector

QC, Mated/Locking Input

Zero Crossing Output

Rating	Output	Input	Part Number
25 Amp	24-280Vac	4-15Vdc	84140800
25 Amp	24-280Vac	17-32Vdc	84140810
40 Amp	24-280Vac	4-15Vdc	84140900
40 Amp	24-280Vac	17-32Vdc	84140910

Random Fire Output

Rating	Output	Input	Part Number
25 Amp	24-280Vac	4-15Vdc	84140801
25 Amp	24-280Vac	17-32Vdc	84140811
40 Amp	24-280Vac	4-15Vdc	84140901
40 Amp	24-280Vac	17-32Vdc	84140911

Mating Connector: Molex # 14-56-2042

Part Numbers — Screw Terminals

Standard Input Pins

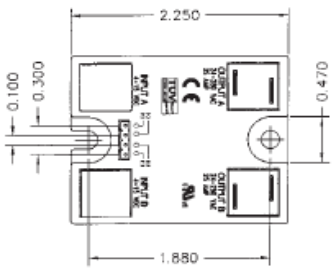
Zero Crossing Output

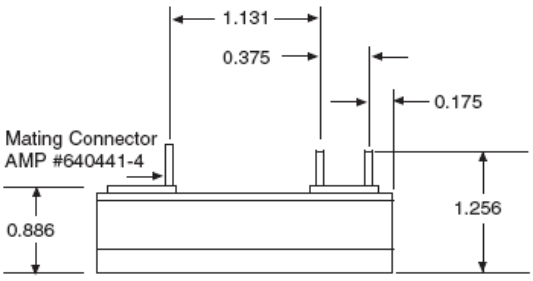
Rating	Output	Input	Part Number
25 Amp	24-280Vac	4-15Vdc	84140003
25 Amp	24-280Vac	17-32Vdc	84140013
40 Amp	24-280Vac	4-15Vdc	84140203
40 Amp	24-280Vac	17-32Vdc	84140213

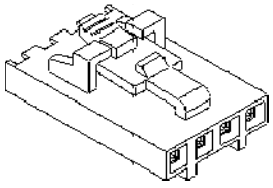
Random Fire Output

Rating	Output	Input	Part Number
25 Amp	24-280Vac	4-15Vdc	84140103
25 Amp	24-280Vac	17-32Vdc	84140113
40 Amp	24-280Vac	4-15Vdc	84140303
40 Amp	24-280Vac	17-32Vdc	84140313

Obsolete







Mating Connector for 841408xxx and 841409xxx
Molex # 50-57-9404 without pins
Crimp Pins Molex # 16-02-0103

660 VOLT DUAL SOLID STATE RELAYS

- **40 amp dual AC output relays**
- **Output voltage from 48 to 660 Vac**
- **Direct bond copper substrate**
- **Back to back dual SCR output**
- **4000 Vac optical isolation**
- **Zero crossing or random turn on**
- **UL/cUL Recognized, CE Compliant**







Obsolete

Output Specifications

Voltage range (Vrms)	**48-660Vac**		
Peak Voltage (Vpk , t = I min.)	1000		
Off-state leakage mArms (@ max. line voltage & Ta = 25ºC)	0.25		
Output Current (Mounted on proper heat sink, see deratings)	**25**	**40**	
Minimum Current (mArms)	100	100	
1 cycle surge current 50-60 Hz (Apk, Ta = 25ºC)	275-300		710-750
1 second surge current 50/60 Hz (Apk, Ta = 25ºC)	85		150
Forward voltage drop (Vpk @ Imax, Ta = 25ºC)	1.4	1.3	
I^2T (50-60Hz, ½ cycle)	380-370		2520-2320
Rjb (thermal res. Junction to baseplate, ºC/W)	0.6	0.4	
Static off-state dv/dt (Vµs, Ta = 25ºC)	500	500	

Input Specifications

Input voltage	**4-15Vdc**	**17-32Vdc**
Drop out voltage	1Vdc	1Vdc
Min. input current (for on-state)	7.5mA	13mA
Maximum input current	34mA	24mA
Input Resistance (Ohms)	500	1500
Turn-on time*	8.33msec	8.33msec
Turn-off time	8.33msec	8.33msec

*** Random SSR's turn on in less than 100µs**

General Characteristics

Operating Temperature (ºC)	-40 to + 80
Storage Temperature (ºC)	-40 to + 100
Input to output isolation	4000Vrms
Input/output to ground isolation	2500Vrms
Input to output capacitance	8pF (typical)
Operating Frequency	47 to 63 Hz
Housing Material	UL 94V0 (self extinguishing)

Standards of Compliance

CE Compliant with the LVD 73/23/EEC

UL / cUL Recognized per UL 508 and CSA C22.2 no. 14-M91

Part Numbers — 1/4" Quick Connect

QC, Standard Input Pins

Zero Crossing Output

Rating	Output	Input	Part Number
25 Amp	48-660Vac	4-15Vdc	84140500
25 Amp	48-660Vac	17-32Vdc	84140510
40 Amp	48-660Vac	4-15Vdc	84140600
40 Amp	48-660Vac	17-32Vdc	84140610

Random Fire Output

Rating	Output	Input	Part Number
25 Amp	48-660Vac	4-15Vdc	84140501
25 Amp	48-660Vac	17-32Vdc	84140511
40 Amp	48-660Vac	4-15Vdc	84140601
40 Amp	48-660Vac	17-32Vdc	84140611

Part Numbers — Screw Terminals

Standard Input Pins

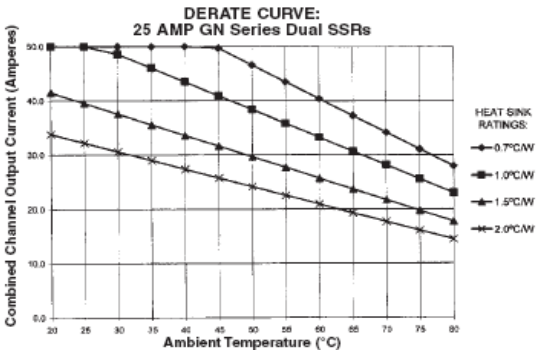
Zero Crossing Output

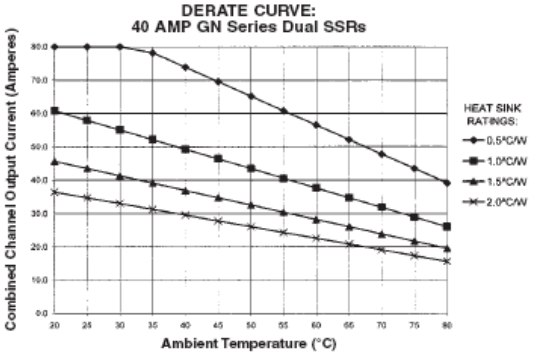
Rating	Output	Input	Part Number
25 Amp	48-660Vac	4-15Vdc	84140503
25 Amp	48-660Vac	17-32Vdc	84140513
40 Amp	48-660Vac	4-15Vdc	84140603
40 Amp	48-660Vac	17-32Vdc	84140613

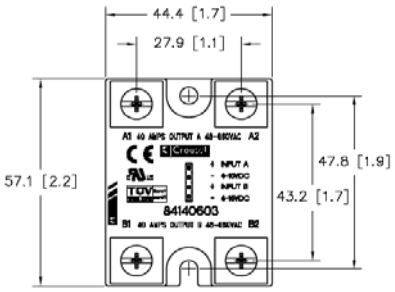
Random Fire Output

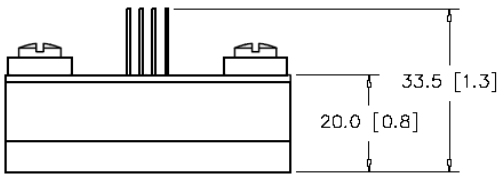
Rating	Output	Input	Part Number
25 Amp	48-660Vac	4-15Vdc	84140530
25 Amp	48-660Vac	17-32Vdc	84140531
40 Amp	48-660Vac	4-15Vdc	84140630
40 Amp	48-660Vac	17-32Vdc	84140631

Obsolete









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