

Dual Output Solid-State Relays

Crouzet Products /Automation Controls /Solid State Relays /Dual Solid State Relays

PRODUCT FEATURES

- ✚ True 40 amp per channel rating at 240Vac and 480Vac
- ✚ Dual input channels for independent output operation
- ✚ Direct Bond Copper substrate for superior thermal performance
- ✚ Back-to-back SCR output for heavy industrial loads
- ✚ 4-15Vdc or 17-32Vdc per channel input rating
- ✚ Zero-crossing (resistive loads) or random-fire (inductive loads) outputs
- ✚ No external transient protection required (internal TVS)
- ✚ 4000Vac Optical Isolation
- ✚ UL/cUL Recognized, CE Compliant
- ✚ Available in 1/4" quick connect or screw terminals

[CAD File - Dual solid state relay with quick-connect terminals](#)

[CAD File - Dual solid state relay with screw-terminals](#)

[CE Manufacturer's Declaration of Conformity](#)

[RoHS Information](#)



Dual Output Solid State Relays (Quick-Connect Output Terminals)

Current	Output voltage	Input voltage	Termination	Switching	Part number	
25 A	24-280 V AC	4-15 V DC	1/4" Q.C.	Zero voltage	84140000	Check Stock
25 A	24-280 V AC	17-32 V DC	1/4" Q.C.	Zero voltage	84140010	Check Stock
40 A	24-280 V AC	4-15 V DC	1/4" Q.C.	Zero voltage	84140200	Check Stock
40 A	24-280 V AC	17-32 V DC	1/4" Q.C.	Zero voltage	84140210	Check Stock
25 A	48-660 V AC	4-15 V DC	1/4" Q.C.	Zero voltage	84140500	Check Stock
25 A	48-660 V AC	17-32 V DC	1/4" Q.C.	Zero voltage	84140510	Check Stock
40 A	48-660 V AC	4-15 V DC	1/4" Q.C.	Zero voltage	84140600	Check Stock
40 A	48-660 V AC	17-32 V DC	1/4" Q.C.	Zero voltage	84140610	Check Stock
25 A	24-280 V AC	4-15 V DC	1/4" Q.C.	Instantaneous	84140100	Check Stock
25 A	24-280 V AC	17-32 V DC	1/4" Q.C.	Instantaneous	84140110	Check Stock
40 A	24-280 V AC	4-15 V DC	1/4" Q.C.	Instantaneous	84140300	Check Stock

40 A	24-280 V AC	17-32 V DC	1/4" Q.C.	Instantaneous	84140310	Check Stock
25 A	48-660 V AC	4-15 V DC	1/4" Q.C.	Instantaneous	84140501	Check Stock
25 A	48-660 V AC	17-32 V DC	1/4" Q.C.	Instantaneous	84140511	Check Stock
40 A	48-660 V AC	4-15 V DC	1/4" Q.C.	Instantaneous	84140601	Check Stock
40 A	48-660 V AC	17-32 V DC	1/4" Q.C.	Instantaneous	84140611	Check Stock

Heat Sinks/Accessories

“Safe-Connect” Input Terminals (Quick-Connect Output Terminals)

Current	Output voltage	Input voltage	Termination	Switching	Part number	
25 A	24-280 V AC	4-15 V DC	1/4" Q.C.	Zero voltage	84140800	Check Stock
25 A	24-280 V AC	17-32 V DC	1/4" Q.C.	Zero voltage	84140810	Check Stock
40 A	24-280 V AC	4-15 V DC	1/4" Q.C.	Zero voltage	84140900	Check Stock
40 A	24-280 V AC	17-32 V DC	1/4" Q.C.	Zero voltage	84140910	Check Stock
25 A	24-280 V AC	4-15 V DC	1/4" Q.C.	Instantaneous	84140801	Check Stock
25 A	24-280 V AC	17-32 V DC	1/4" Q.C.	Instantaneous	84140811	Check Stock
40 A	24-280 V AC	4-15 V DC	1/4" Q.C.	Instantaneous	84140901	Check Stock
40 A	24-280 V AC	17-32 V DC	1/4" Q.C.	Instantaneous	84140911	Check Stock

Heat Sinks/Accessories

Screw-Terminal Outputs

Current	Output voltage	Input voltage	Termination	Switching	Part number	
25 A	24-280 V AC	4-15 V DC	Clamp	Zero voltage	84140003	Check Stock
25 A	24-280 V AC	17-32 V DC	Clamp	Zero voltage	84140013	Check Stock
40 A	24-280 V AC	4-15 V DC	Clamp	Zero voltage	84140203	Check Stock
40 A	24-280 V AC	17-32 V DC	Clamp	Zero voltage	84140213	Check Stock
25 A	48-660 V AC	4-15 V DC	Clamp	Zero voltage	84140503	Check Stock
25 A	48-660 V AC	17-32 V DC	Clamp	Zero voltage	84140513	Check Stock
40 A	48-660 V AC	4-15 V DC	Clamp	Zero voltage	84140603	Check Stock
40 A	48-660 V AC	17-32 V DC	Clamp	Zero voltage	84140613	Check Stock
25 A	24-280 V AC	4-15 V DC	Clamp	Instantaneous	84140103	Check Stock
25 A	24-280 V AC	17-32 V DC	Clamp	Instantaneous	84140113	Check Stock
40 A	24-280 V AC	4-15 V DC	Clamp	Instantaneous	84140303	Check Stock
40 A	24-280 V AC	17-32 V DC	Clamp	Instantaneous	84140313	Check Stock
25 A	48-660 V AC	4-15 V DC	Clamp	Instantaneous	84140530	Check Stock
25 A	48-660 V AC	17-32 V DC	Clamp	Instantaneous	84140531	Check Stock
40 A	48-660 V AC	4-15 V DC	Clamp	Instantaneous	84140630	Check Stock
40 A	48-660 V AC	17-32 V DC	Clamp	Instantaneous	84140631	Check Stock

Heat Sinks/Accessories

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



Output Specifications

Voltage range (Vrms)	24-280Vac	
Peak Voltage (Vpk, t = 1 min.)	550	
Off-state leakage mArms (@ max. line voltage & Ta = 25°C)	0.1	
Output Current (Mounted on proper heat sink, see deratings)	25	40
Minimum Current (mArms)	100	100
Max. 1 cycle surge current (Apk, Ta = 25°C)	500	780
Max. 1 second surge current (Apk, Ta = 25°C)	150	234
Forward voltage drop (Vpk @ Imax, Ta = 25°C)	1.4	1.3
i ² T (60Hz, ½ cycle)	1250	2435
Rjb (thermal res. Junction to baseplate, °C/W)	0.6	0.4
Static off-state dv/dt (Vµs, Ta = 25°C)	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

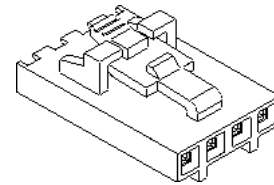
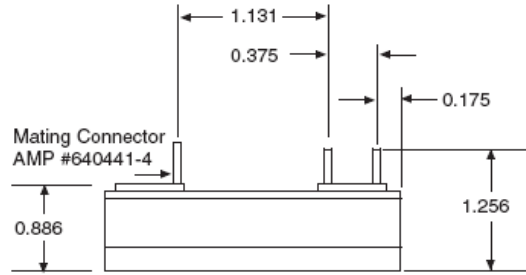
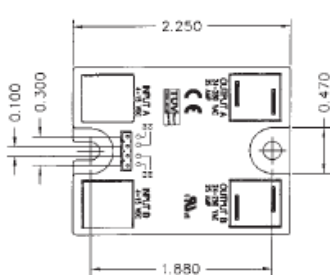
General Characteristics

Operating Temperature (°C)	-40 to + 80
Storage Temperature (°C)	-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.



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

Part Numbers

1/4" Quick Connect

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

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

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

QC, Standard Input Pins

QC, Mated/Locking Input

Standard Input Pins