

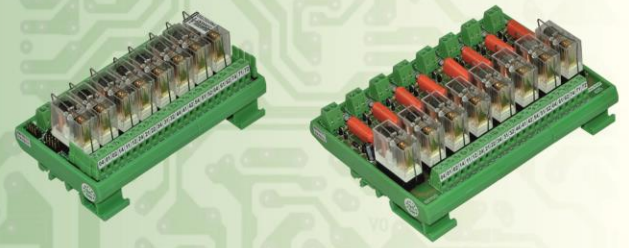
॥ गुणवर्धनात् समृद्धिः ॥

# SHAVISON®

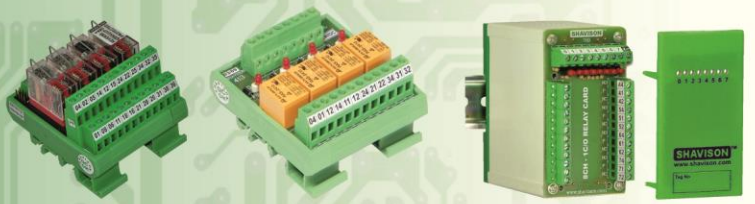
Catalogue  
w.e.f.  
1<sup>st</sup> April 2019 Issue-1



CE Mark on selected products



SMPS and Accessories



Relay Interface Modules



Signal Converters / Isolators



Protection Relays



Timers



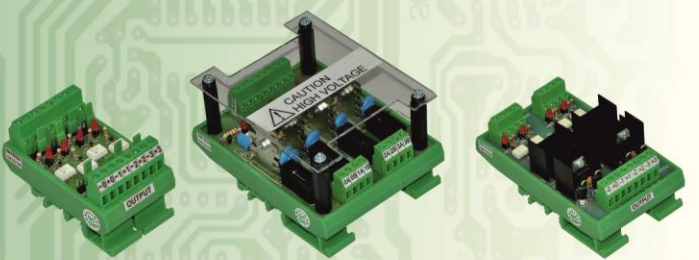
Hooters



Battery Chargers

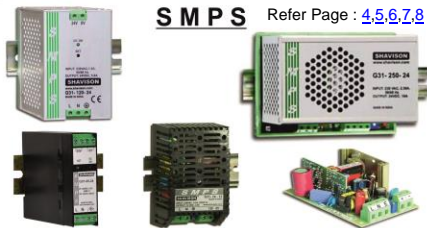


FRC / D-SUB (M/F) Connectors



SSR / Opto Interface Modules

## Peripherals for Industrial Automation

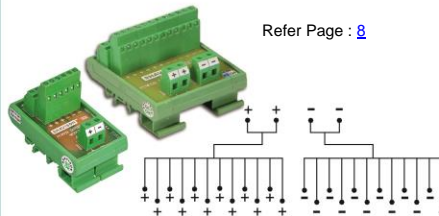


### SMPS

Refer Page : [4,5,6,7,8](#)

<b>I/P Voltages</b>	110V AC/DC, 230V AC/DC, 24V DC, 48V DC
<b>O/P Voltages</b>	5V, 12V, 15V, 24V, 48V DC
<b>O/P Currents</b>	250mA, 500mA, 1A, 1.5A, 2A, 2.5A, 3A, 4A, 5A, 8A, 10A, 15A, 20A DC

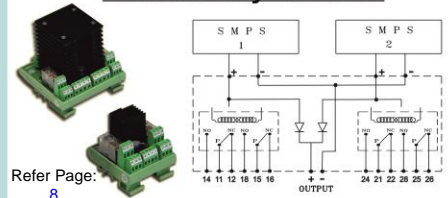
### Power Distribution Modules



Refer Page : [8](#)

<b>Input</b>	100VDC / 230VAC	20A max
<b>Output</b>	1X6, 2 X 12 Way terminals rated for 5A each	

### Redundancy Modules



Refer Page : [8](#)

Voltage	Current	
	Redundant	Parallel
12VDC, 24VDC, 48VDC	10A	20A
	20A	40A

### General Purpose SMPS



Refer Page : [4](#)

<b>I/P Voltage</b>	230VAC
<b>O/P Voltage</b>	12V : 5A, 24V : 2.5A, 24V : 5A

### Battery Chargers



Refer Page : [9](#)

<b>I/P Voltage</b>	230VAC
<b>O/P Voltages</b>	12V, 24V, 36V, 48V, 60V
<b>O/P Current</b>	5A, 10A, 20A

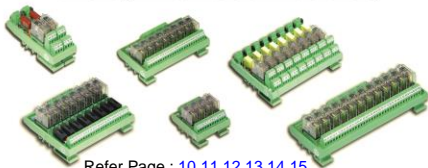
### Heaters



Refer Page : [25, 26](#)

<b>Size</b>	72x72mm, 96x96mm, 144x144mm
<b>Features</b>	2 Tone, 4 Tone, LED Flasher with Accept Function on Front and/or Rear, Volume Control
<b>Supply</b>	Universal (12 to 240V DC or 20 to 240V AC), 230V AC, 24V DC

### Relay Interface Modules



Refer Page : [10,11,12,13,14,15](#)

<b>No. Of Channels</b>	1, 2, 4, 6, 8, 12, 16
<b>No. Of Contacts</b>	1 N/O, 1 C/O, 2 C/O
<b>Coil Voltage</b>	AC : 24V, 48V, 110V, 230V DC : 5V, 12V, 24V, 48V, 110V
<b>Coil Looping</b>	Negative, Positive, Isolated

### Space Saver Module



Refer Page : [12](#)

<b>No. Of Channels</b>	8
<b>No. Of Contacts</b>	1 C/O
<b>Coil Voltage</b>	DC 12V, 24V
<b>Coil Looping</b>	Negative, Positive
<b>Dimensions</b>	55 X 102 X 115 mm

### SSR Modules



Refer Page : [15](#)

Input	Output	No. of Channels
3.3 ~ 30V, 5V, 12V, 24VDC, 15mA	24VDC, 2A, 2.5A	2, 4, 6, 8, 12, 16
	70~270VAC, 2A	
	12~48VDC, 1.5A	

### Protection Relays



Refer Page : [4](#)

VPR

PSR

<b>Protection Against</b>	Phase Sequence, Phase Failure, Phase Imbalance, Under Voltage, Over Voltage
<b>Auxiliary Supply Voltage</b>	310 to 520V AC(L-L), 50 / 60Hz, 3Ø / 3Wire

## SHAVISON®

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+91-98203 62980, 72648 30300

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+91-72640 00464

### Opto Interface Modules



Refer Page : [4, 16](#)

Input	Output	No. of Channels
1.3-1.8VDC, 5V, 12V, 24VDC, 110VAC, 230VAC, 15mA, Op. Freq upto 10 KHz	5V-30VDC(15mA)	2, 4, 6, 8, 12, 16
3-12V, 12V-30V, Aux Supply : 24VDC, Operating Freq upto 200 KHz	24VDC(10mA)	4

### Analog Timers



Refer Page : [23,24](#)

<b>Operating Modes</b>	ON Delay, ON Delay / Interval, Star-Delta, Cyclic ON First or OFF First, Pulse, Forward Pause Reverse, True Power OFF
<b>Supply</b>	Universal (12 to 240V DC or 20 to 240V AC), 230V AC, 110V AC, 24V AC/DC

### Digital Timers



Refer Page : [22](#)

<b>Size</b>	48x48mm, 72x72mm, 96x96mm
<b>Operating Modes</b>	On Delay, Interval, Cyclic, Forward-Pause-Reverse, Batch Counting, Instantaneous + Delayed
<b>Time Ranges</b>	9.99, 99.9, 999 : Sec/Min/Hr 99.99, 999.9, 9999 : Sec/Min/Hr
<b>Output Contact</b>	DPDT(2 C/O), SPDT(1 C/O), SPST(1 NO)
<b>Supply Voltage</b>	85 - 270V AC/DC

### Analog Signal Converters



Refer Page : [18,19,20,21](#)

<b>Input</b>	0 - 20mV DC, 0 - 75mV DC, 0 - 200mV DC, 0 - 5VDC, 0 - 10V DC, 0 - 75V DC, 0 - 120V DC, 0 - 220V DC, 0 - 20mA, 4 - 20mA, 0 - 1Amp AC, 0 - 5Amp AC, K, J- Type, PT - 10K, 1K - 10K POT and More...
<b>Output</b>	0-5VDC, 0 - 10VDC, 0-20mA, 4 - 20mA, 5 - 10KHz
<b>No. of Outputs</b>	Single, Dual
<b>Aux. Supply</b>	24VDC, 24VAC/DC, 90 - 270VAC/DC

### Diode / Resistor Modules



Refer Page : [17](#)

<b>Diodes</b>	Common Anode / Common Cathode / Isolated
<b>Resistors</b>	With common terminal / Isolated
<b>No. of Channels</b>	1, 2, 4, 6, 8, 12, 16

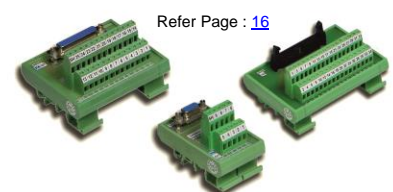
### Modbus I/O Modules



Refer Page : [26](#)

Interface	No. Of Input/Output	Aux. Supply
MODBUS - RTU Signals	8 D/I	90 - 270V AC
	8 Relay Contact Output	
	4 D/I + 4 Relay Contact Outputs	

### FRC / D-SUB Connector



Refer Page : [16](#)

<b>FRC Connector pins</b>	10, 14, 16, 20, 26, 34, 40, 50, 60, 64
<b>D-SUB Connector pins male/female</b>	9, 15, 25, 37, 50

## Index ( Category wise)

Product	Page No.
<b>Phase Sequence Relay (PSR)</b>	<a href="#">4</a>
<b>Voltage Protection Relay (VPR)</b>	<a href="#">4</a>
<b>High Frequency Opto Interface Module</b>	<a href="#">4</a>
<b>Low Power Slim SMPS</b>	<a href="#">4</a>
<b>General Purpose SMPS – DIN Rail + Screw Mounting</b>	
• 60W	<a href="#">4</a>
• 120W	<a href="#">4</a>
<b>SMPS – Enclosed DIN Rail Mount</b>	
• 24W Single Output	<a href="#">5, 6</a>
• 60W Single Output	<a href="#">5, 6</a>
• 120W Single Output	<a href="#">5, 6</a>
• 250W Single Output	<a href="#">5, 6</a>
• 360W Single Output	<a href="#">5, 6</a>
• 500W Single Output	<a href="#">5, 6</a>
• 70W Dual Output	<a href="#">5, 6</a>
<b>DC – DC Converters</b>	
• 24W	<a href="#">6</a>
• 120W	<a href="#">6</a>
• 70W Dual Output	<a href="#">6</a>
<b>SMPS – Open Frame Type</b>	
• 24W Single Output Open Frame	<a href="#">7, 8</a>
• 25W Dual Output Open Frame	<a href="#">7, 8</a>
• 60W Single Output Open Frame	<a href="#">7, 8</a>
• 60W Multi Output Open Frame	<a href="#">7, 8</a>
<b>SMPS Accessories</b>	
• Redundancy / Parallel Connection Module	<a href="#">8</a>
• Power Distribution Module	<a href="#">8</a>
<b>Battery Chargers</b>	
• 120W	<a href="#">9</a>
• 250W	<a href="#">9</a>
• 500W	<a href="#">9</a>
<b>Voltage Monitor Relay / Dynamic Braking Resistor Protection</b>	<a href="#">9</a>
<b>General Purpose Relay Interface Modules</b>	
• 1 C/O General Purpose Relay Module	<a href="#">10</a>
• 2 C/O General Purpose Relay Module	<a href="#">10</a>
• 1 C/O Fuse at pole General Purpose Relay Module	<a href="#">10</a>
<b>Relay Interface Modules – Standard</b>	
• 1 N/O Modules with Looped Coils	<a href="#">10</a>
• 1 C/O Modules with Jumpers for Coil Looping & Reverse Blocking Diodes	<a href="#">10</a>
• 1 C/O Modules with Looped Coils	<a href="#">11</a>
• 1 C/O Modules with Looped / Isolated Coils (Sugar Cube Relay)	<a href="#">11</a>
• 1 C/O Modules with High Voltage Isolated Coils	<a href="#">11</a>
• 1 C/O Modules with 24VAC Isolated Coils	<a href="#">11</a>
• 1 C/O Modules with Fuse at Poles, Looped coils	<a href="#">12</a>
• 1 C/O Modules with High Voltage Isolated coils & Fuse at Poles	<a href="#">12</a>
• 1 C/O 8 Channel Space Saver Relay Module	<a href="#">12</a>
• 2 C/O Modules with Jumpers for Coil Looping & Reverse Blocking Diodes	<a href="#">12</a>
• 2 C/O Modules with Looped Coils	<a href="#">13</a>
• 2 C/O Modules with High Voltage Isolated Coils	<a href="#">13</a>
<b>Relay Interface Modules-Special</b>	
• 1 N/O Relay Modules with Coil Connection Through FRC / HE10	<a href="#">13</a>
• 1 C/O Relay Modules with 30A Contacts	<a href="#">13</a>
• 1 C/O Relay Modules with High Voltage Isolated coils and 30A Contacts	<a href="#">13</a>
• 1 C/O Relay Modules with 70A Contacts / Generator Control Interface	<a href="#">14</a>
• 2 C/O High Sensitivity Signal Relay Modules with Jumpers for Coil looping	<a href="#">14</a>
• 1 N/O with Coil Connection through FRC (ABB I/O Interface)	<a href="#">14</a>
• CNC Specific Relay Module	<a href="#">14</a>
• 2 C/O Relay Modules with FRC Connector Input & Cascading	<a href="#">14</a>
• 1 C/O Relay Modules with TTL / Low Current Input	<a href="#">14</a>
• 1 C/O Low Signal Relay Modules with TTL / Low Current Input	<a href="#">14</a>
• 2 C/O Relay Modules with TTL / Low Current Input	<a href="#">14</a>
• 2 C/O Relay Module with OPTO INPUT	<a href="#">15</a>
<b>Solid State Interface Modules</b>	
➤ <b>Isolated :</b>	
• SSR DC-DC with Input : 3.3 ~ 30VDC, Output : 12V ~ 48VDC, 1.5A (Solenoid Driver)	<a href="#">15</a>
• SSR DC-DC with Output : 24VDC, 2 A	<a href="#">15</a>
• SSR DC-AC with Output : 70-270VAC, 2A	<a href="#">15</a>
➤ <b>Non – Isolated :</b>	
• SSR DC-DC with Output : 24VDC, 2.5A (Solenoid Driver)	<a href="#">15</a>
<b>Opto Interface Modules</b>	<a href="#">16</a>
<b>FRC / D-SUB (M/F) Connector to Wire and Cables</b>	<a href="#">16</a>
<b>Proximity Sensor Interface</b>	<a href="#">17</a>
<b>Vibrator Control Card</b>	<a href="#">17</a>
<b>Precision Reference Source 10VDC : 20mA</b>	<a href="#">17</a>
<b>Diode / Resistor Modules</b>	<a href="#">17</a>
<b>Modbus I/O Modules</b>	<a href="#">26</a>
<b>Analog Signal Converters / Isolators</b>	
• Analog Signal Converters / Isolators - Dual Isolated Output	<a href="#">18, 19, 20</a>
• Analog Signal Converters / Isolators - Slim Size Single Output	<a href="#">20, 21</a>
<b>Digital Timers</b>	<a href="#">22</a>
<b>Analog Timers</b>	
➤ <b>22.5mm DIN Rail / Base Mounted</b>	
• ON Delay / Interval	<a href="#">23, 24</a>
• True Power OFF	<a href="#">23, 24</a>
• ON Delay	<a href="#">23, 24</a>
• Star Delta	<a href="#">23, 24</a>
• Cyclic ON First or OFF First	<a href="#">23, 24</a>
• Pulse ON First or OFF First	<a href="#">23, 24</a>
• Forward-Pause-Reverse	<a href="#">23, 24</a>
➤ <b>48 X 48mm Panel Mounted</b>	
• ON Delay / Interval	<a href="#">24</a>
• Cyclic ON First or OFF First	<a href="#">24</a>
<b>Hooters</b>	
• 72 X 72mm Standard	<a href="#">25</a>
• 96 X 96mm Flasher	<a href="#">25</a>
• 144 X 144mm Flasher	<a href="#">25</a>
• 96 X 96mm Flasher with Base Mount	<a href="#">26</a>
<b>Hooter Accessories</b>	
• Wall Mount Clamp	<a href="#">26</a>

## Index (Order Code wise)

Order Code	Page No.
AS254	<a href="#">14</a>
AS296	<a href="#">14</a>
AS298	<a href="#">14</a>
AS331	<a href="#">8</a>
AS333	<a href="#">8</a>
AS334	<a href="#">13</a>
AS339	<a href="#">14</a>
AS348	<a href="#">7</a>
AS351	<a href="#">11</a>
AS352	<a href="#">11</a>
AS353	<a href="#">11</a>
AS355	<a href="#">11</a>
AS356	<a href="#">11</a>
AS357	<a href="#">11</a>
AS361	<a href="#">10</a>
AS362	<a href="#">10</a>
AS363	<a href="#">10</a>
AS365	<a href="#">10</a>
AS366	<a href="#">10</a>
AS367	<a href="#">10</a>
AS371	<a href="#">13</a>
AS372	<a href="#">13</a>
AS373	<a href="#">13</a>
AS375	<a href="#">13</a>
AS376	<a href="#">13</a>
AS377	<a href="#">13</a>
AS383	<a href="#">10</a>
AS385	<a href="#">10</a>
AS391	<a href="#">12</a>
AS392	<a href="#">12</a>
AS393	<a href="#">12</a>
AS395	<a href="#">12</a>
AS396	<a href="#">12</a>
AS397	<a href="#">12</a>
AS401	<a href="#">11</a>
AS402	<a href="#">11</a>
AS403	<a href="#">11</a>
AS405	<a href="#">11</a>
AS406	<a href="#">11</a>
AS407	<a href="#">11</a>
AS411	<a href="#">11</a>
AS412	<a href="#">11</a>
AS413	<a href="#">11</a>
AS415	<a href="#">11</a>
AS416	<a href="#">11</a>
AS417	<a href="#">11</a>
AS421	<a href="#">11</a>
AS422	<a href="#">11</a>
AS423	<a href="#">11</a>
AS424	<a href="#">11</a>
AS425	<a href="#">11</a>
AS427	<a href="#">11</a>
AS431	<a href="#">13</a>
AS432	<a href="#">13</a>
AS433	<a href="#">13</a>
AS434	<a href="#">13</a>
AS435	<a href="#">13</a>
AS441	<a href="#">17</a>
AS442	<a href="#">17</a>
AS443	<a href="#">17</a>
AS444	<a href="#">17</a>
AS445	<a href="#">17</a>
AS451	<a href="#">8</a>
AS452	<a href="#">8</a>
AS455	<a href="#">26</a>
AS456	<a href="#">26</a>
AS457	<a href="#">26</a>




Order Code	Page No.
AS464	<a href="#">7</a>
AS469	<a href="#">7</a>
AS492	<a href="#">8</a>
AS501	<a href="#">12</a>
AS502	<a href="#">12</a>
AS503	<a href="#">12</a>
AS504	<a href="#">12</a>
AS505	<a href="#">12</a>
AS506	<a href="#">12</a>
AS507	<a href="#">12</a>
AS522	<a href="#">16</a>
AS523	<a href="#">16</a>
AS525	<a href="#">16</a>
AS535	<a href="#">14</a>
AS547	<a href="#">14</a>
AS548	<a href="#">13</a>
AS581	<a href="#">16</a>
AS582	<a href="#">16</a>
AS583	<a href="#">16</a>
AS584	<a href="#">16</a>
AS585	<a href="#">16</a>
AS586	<a href="#">16</a>
AS587	<a href="#">16</a>
AS588	<a href="#">16</a>
AS589	<a href="#">16</a>
AS590	<a href="#">16</a>
AS591	<a href="#">16</a>
AS592	<a href="#">16</a>
AS593	<a href="#">16</a>
AS594	<a href="#">16</a>
AS595	<a href="#">16</a>
AS601	<a href="#">17</a>
AS602	<a href="#">17</a>
AS603	<a href="#">17</a>
AS606	<a href="#">17</a>
AS607	<a href="#">17</a>
AS608	<a href="#">17</a>
AS609	<a href="#">17</a>
AS621	<a href="#">11</a>
AS622	<a href="#">11</a>
AS623	<a href="#">11</a>
AS624	<a href="#">11</a>
AS625	<a href="#">11</a>
AS682	<a href="#">14</a>
AS683	<a href="#">14</a>
AS690	<a href="#">9</a>
AS701	<a href="#">13</a>
AS702	<a href="#">13</a>
AS703	<a href="#">13</a>
AS704	<a href="#">13</a>
AS705	<a href="#">13</a>
AS717	<a href="#">14</a>
AS720	<a href="#">15</a>
AS746-xxx	<a href="#">20, 21</a>
AS772	<a href="#">15</a>
AS773	<a href="#">15</a>
AS775	<a href="#">15</a>
AS780	<a href="#">17</a>
AS782	<a href="#">15</a>
AS783	<a href="#">15</a>
AS785	<a href="#">15</a>
AS789	<a href="#">12</a>
AS793	<a href="#">15</a>
AS795	<a href="#">15</a>
AS801	<a href="#">12</a>
AS802	<a href="#">12</a>
AS803	<a href="#">12</a>

Order Code	Page No.
AS805	<a href="#">12</a>
AS845-xxx	<a href="#">18, 19, 20</a>
AS852	<a href="#">16</a>
AS853	<a href="#">16</a>
AS855	<a href="#">16</a>
AS865-xxx	<a href="#">18</a>
AS893	<a href="#">15</a>
AS895	<a href="#">15</a>
AS923	<a href="#">4</a>
BCD-xxx	<a href="#">9</a>
BCW-xxx	<a href="#">9</a>
BL1250	<a href="#">4</a>
BL2425	<a href="#">4</a>
BL2450	<a href="#">4</a>
FB468	<a href="#">26</a>
G31-120-12	<a href="#">5</a>
G31-120-15	<a href="#">5</a>
G31-120-24	<a href="#">5</a>
G31-120-48	<a href="#">5</a>
G31-24-05	<a href="#">5</a>
G31-24-10	<a href="#">17</a>
G31-24-12	<a href="#">5</a>
G31-24-15	<a href="#">5</a>
G31-24-24	<a href="#">5</a>
G31-24-48	<a href="#">5</a>
G31-250-12	<a href="#">5</a>
G31-250-15	<a href="#">5</a>
G31-250-24	<a href="#">5</a>
G31-250-30	<a href="#">5</a>
G31-250-48	<a href="#">5</a>
G31-360-12	<a href="#">5</a>
G31-360-24	<a href="#">5</a>
G31-360-36	<a href="#">5</a>
G31-500-24	<a href="#">5</a>
G31-500-48	<a href="#">5</a>
G31-60-05	<a href="#">5</a>
G31-60-12	<a href="#">5</a>
G31-60-15	<a href="#">5</a>
G31-60-24	<a href="#">5</a>
G31-60-48	<a href="#">5</a>
G31-70-12-05	<a href="#">6</a>
G31-70-12-12	<a href="#">6</a>
G31-70-15-15	<a href="#">6</a>
G31-70-24-05	<a href="#">6</a>
G31-70-24-12	<a href="#">6</a>
G32-120-12	<a href="#">5</a>
G32-120-15	<a href="#">5</a>
G32-120-24	<a href="#">5</a>
G32-120-48	<a href="#">5</a>
G32-250-12	<a href="#">5</a>
G32-250-15	<a href="#">5</a>
G32-250-24	<a href="#">5</a>
G32-250-30	<a href="#">5</a>
G32-250-48	<a href="#">5</a>
G32-60-05	<a href="#">5</a>
G32-60-12	<a href="#">5</a>
G32-60-15	<a href="#">5</a>
G32-60-24	<a href="#">5</a>
G32-60-48	<a href="#">5</a>
G32-70-12-05	<a href="#">6</a>
G32-70-12-12	<a href="#">6</a>
G32-70-15-15	<a href="#">6</a>
G32-70-24-05	<a href="#">6</a>
G32-70-24-12	<a href="#">6</a>
G34-24-05	<a href="#">6</a>
G34-24-12	<a href="#">6</a>
G34-24-24	<a href="#">6</a>

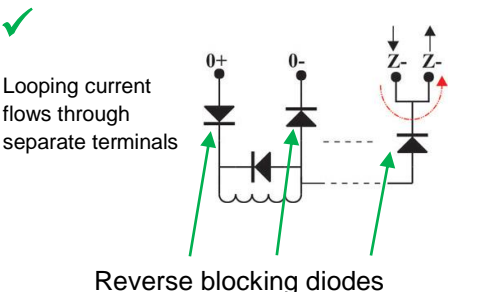
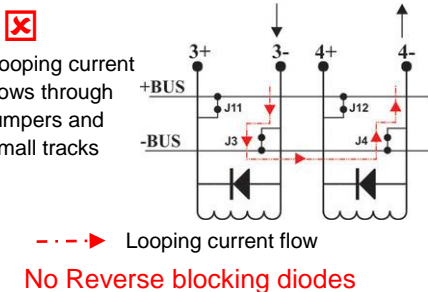




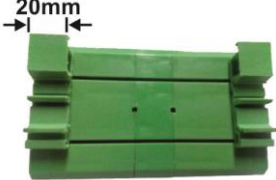


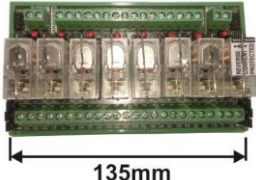
Order Code	Page No.
G35-120-24	<a href="#">6</a>
G35-70-15-15	<a href="#">6</a>
G38-06-05	<a href="#">4</a>
G38-06-12	<a href="#">4</a>
G38-06-15	<a href="#">4</a>
G38-06-24	<a href="#">4</a>
GP04	<a href="#">10</a>
GP08	<a href="#">10</a>
GP16	<a href="#">10</a>
GPF04	<a href="#">10</a>
GPF08	<a href="#">10</a>
H14F-U	<a href="#">25</a>
H72S	<a href="#">25</a>
H92F	<a href="#">25</a>
H92F-230VAC-B	<a href="#">26</a>
H92F-24VDC-B	<a href="#">26</a>
H92S	<a href="#">25</a>
H92S-24VDC-B	<a href="#">26</a>
H94F-U	<a href="#">25</a>
H94F-UB	<a href="#">26</a>
PSR-415V	<a href="#">4</a>
T4CY	<a href="#">24</a>
T4DU	<a href="#">24</a>
TACY-10H-U	<a href="#">23</a>
TADU-*	<a href="#">23</a>
TAFR-8M-U	<a href="#">24</a>
TAON-*	<a href="#">23</a>
TAPL-*	<a href="#">24</a>
TASD-*	<a href="#">23</a>
TATP-*	<a href="#">23</a>
TD1D-48-24V	<a href="#">22</a>
TD1D-48-Z	<a href="#">22</a>
TD1D-72-24V	<a href="#">22</a>
TD1D-72-Z	<a href="#">22</a>
TD1D-96-24V	<a href="#">22</a>
TD1D-96-Z	<a href="#">22</a>
TD2D-48-24V	<a href="#">22</a>
TD2D-48-Z	<a href="#">22</a>
TD2D-72-24V	<a href="#">22</a>
TD2D-72-Z	<a href="#">22</a>
TD2D-96-24V	<a href="#">22</a>
TD2D-96-Z	<a href="#">22</a>
TDMF-48-24V	<a href="#">22</a>
TDMF-48-Z	<a href="#">22</a>
TDMF-72-24V	<a href="#">22</a>
TDMF-72-Z	<a href="#">22</a>
TDMF-96-24V	<a href="#">22</a>
TDMF-96-Z	<a href="#">22</a>
TDPW-48-24V	<a href="#">22</a>
TDPW-48-Z	<a href="#">22</a>
TDPW-72-24V	<a href="#">22</a>
TDPW-72-Z	<a href="#">22</a>
TDPW-96-24V	<a href="#">22</a>
TDPW-96-Z	<a href="#">22</a>
VPR-415V	<a href="#">4</a>
WA-FRC-xxx	<a href="#">16</a>
WA-DSUB-xxx	<a href="#">16</a>



**Note :** Order codes listed above are make to order items. Kindly contact factory.


## SMPS : Comparison




Feature		Competitors
Compact	<p>✓ DIN Rail : 35mm</p> 	<p>✗ NA</p> 
Mounting	<p>✓</p>  <p>⌚ &lt; 10 secs, Plug &amp; play</p>	<p>✗ NA</p>  <p>⌚ 25 minutes &amp; base plate required</p>
International Approvals/Marks	<p>✓ <b>CE</b> mark for 60W &amp; 120W and Din Rail mounting with low cost</p>	<p>✗ NA</p>
Made In	<p>✓ India </p>	<p>✗ China </p>
Specifications present on front plate	<p>✓ Power OK indication, terminations, output set control &amp; rating details on front</p>	<p>✗ NA</p>
Separate Input & Output terminations	<p>✓ </p>	<p>✗ </p>
Price	<p>✓ Competitive Pricing</p>	<p>✗ Marginally Cheaper</p>







## Relay Interface Module : Comparison

Feature	SHAVISON <sup>®</sup>	Competitors
<p>1. Separate terminals for Supply looping</p> <p>2. Reverse Blocking Diode Protects Relay module as well as PLC against Dead Short Circuit through freewheeling diode</p>	<p>✓</p> <p><b>Z+ Z+    Z- Z-</b></p> <p>✓</p> <p>Looping current flows through separate terminals</p>  <p>Reverse blocking diodes</p>	<p>✗ NA</p> <p>✗</p> <p>Looping current flows through jumpers and small tracks</p>  <p>---&gt; Looping current flow</p> <p>No Reverse blocking diodes</p>
Jumpers	 <p>Easily Accessible</p>  <p>With Pigtail</p>	 <p>Not easily accessible</p>  <p>Ordinary</p>
Channel Numbering	<p>✓</p> <p><b>0+ 0-    - - - -    7+ 7-</b></p> <p>Corresponds to PLC output Modules</p>	<p>✗</p> <p><b>-8 +8    - - - -    -1 +1</b></p> <p>Not Corresponding to PLC output Modules</p>
Terminal Labels	<p>✓</p> <p><b>Z+ Z+    0+ 0-    - - - -    7+ 7-    Z- Z-</b></p> <p><b>04 01 02 14 11 12    - - - -    74 71 72</b></p> <p>Correctly oriented &amp; Unique</p>	<p>✗</p> <p><b>-8 +8    - - - -    -1 +1</b></p> <p><b>NO-1 C-1 NC-1    - - - -    NO-1 C-1 NC-1</b></p> <p><b>RLY-8    - - - -    RLY-1</b></p> <p>Disoriented &amp; not unique</p>
Bigger Foot element for mounting	<p>✓</p>  <p>20mm</p>	<p>✗</p>  <p>10mm</p>
<p><b>Space Saver</b></p> <p>8 Channel Relay Module</p> <p><a href="#">Refer Page 12</a></p> <p>Saves Space by 60%</p>	 <p>102mm</p> <p>55mm</p> <p>Space Saver 8Ch</p>	 <p>135mm</p> <p>Standard 8Ch</p>


Protection Relays HSN : 85363000	Features	Output Contact	Order Code	Availability (UR : Upon Request)
 <p><b>New</b></p> <p><b>Phase Sequence Relay</b> <a href="http://www.shavison.com/pdf/BE000.pdf">http://www.shavison.com/pdf/BE000.pdf</a></p>	<ul style="list-style-type: none"> <li>• 3Ø / 3 wire input</li> <li>• Monitors :- Phase sequence, Phase failure, Phase imbalance.</li> <li>• LED Indication : Relay, Fault</li> <li>• DIN Rail / Base Mounting</li> </ul>	SPDT (1 C/O)	PSR-415V	Ex Stock
 <p><b>New</b></p> <p><b>Voltage Protection Relay</b> <a href="http://www.shavison.com/pdf/BF000.pdf">http://www.shavison.com/pdf/BF000.pdf</a></p>	<ul style="list-style-type: none"> <li>• 3Ø / 3 wire input</li> <li>• Monitors :- Phase Sequence, Phase Failure, L-L Under/ Over Voltage.</li> <li>• LED Indication : Relay, Fault</li> <li>• DIN Rail / Base Mounting</li> </ul>	SPDT (1 C/O)	VPR-415V	UR

High Frequency Opto Interface Module HSN : 85369090	Features	Input Voltage	Order Code	Availability (UR : Upon Request)
 <p><b>New</b></p> <p><b>Operating Frequency : Upto 200 KHz</b> <a href="http://www.shavison.com/pdf/14200.pdf">http://www.shavison.com/pdf/14200.pdf</a></p>	<ul style="list-style-type: none"> <li>• 4 Channel</li> <li>• Optical Isolation between Input &amp; Output</li> <li>• Aux Supply : 24VDC</li> <li>• Wide Input Voltage Range</li> <li>• High Speed Operation upto 200KHz</li> <li>• 24V Output or Open Collector</li> <li>• Compatible with PNP &amp; NPN type</li> <li>• Inputs Suitable for Microcontroller based Application</li> </ul>	3 ~ 12V	AS923-101	Ex Stock
		12 ~ 30V	AS923-102	UR




Low Power Slim SMPS HSN : 85044090	Input	Output		Order Code	Availability (UR : Upon Request)
		Voltage DC	Current at Nominal Input		
 <p><b>6W</b> <a href="http://www.shavison.com/pdf/20100.pdf">http://www.shavison.com/pdf/20100.pdf</a></p>	90 to 270V AC 110 to 360V DC	5V	1.2A	G38-06-05	Ex Stock
		12V	500mA	G38-06-12	Ex Stock
		15V	400mA	G38-06-15	Ex Stock
		24V	250mA	G38-06-24	Ex Stock
General Purpose SMPS DIN Rail + Screw Mounting HSN : 85044090	Input	Output		Order Code	Availability (UR : Upon Request)
		Voltage DC	Current at Nominal Input		
 <p><b>60W</b> <a href="http://www.shavison.com/pdf/21250.pdf">http://www.shavison.com/pdf/21250.pdf</a></p>	Nominal : 230V AC/DC	12V	5.0A	BL1250	Ex Stock
		24V	2.5A	BL2425	Ex Stock
 <p><b>120W</b> <a href="http://www.shavison.com/pdf/21350.pdf">http://www.shavison.com/pdf/21350.pdf</a></p>	Nominal : 230V AC/DC	24V	5.0A	BL2450	Ex Stock






SMPS HSN : 85044090	Input	Output		Order Code	Availability (UR : Upon Request)		
		Voltage DC	Current at Nominal Input				
 <b>24W</b> <a href="http://www.shavison.com/pdf/21100.pdf">http://www.shavison.com/pdf/21100.pdf</a>	Nominal : <b>230VAC/DC</b> *With de-rating : 100 to 270VAC 110 to 360VDC	5V	2.5A	G31-24-05	Ex Stock		
		12V	2A	G31-24-12	UR		
		15V	1.5A	G31-24-15	UR		
		<b>24V</b>	<b>1A</b>	<b>G31-24-24</b>	Ex Stock		
		48V	0.5A	G31-24-48	UR		
	Nominal : <b>110VAC/DC</b>	5V	2.5A	G32-24-05	UR		
		12V	2A	G32-24-12			
		15V	1.5A	G32-24-15			
		<b>24V</b>	<b>1A</b>	<b>G32-24-24</b>			
		48V	0.5A	G32-24-48			
 <b>60W (CE marked)</b> <a href="http://www.shavison.com/pdf/21200.pdf">http://www.shavison.com/pdf/21200.pdf</a>	Nominal : <b>230VAC/DC</b> *With de-rating : 100 to 270VAC 110 to 360VDC	5V	5A	G31-60-05	UR		
		12V	5A	G31-60-12	Ex Stock		
		15V	4A	G31-60-15	UR		
		<b>24V</b>	<b>2.5A</b>	<b>G31-60-24</b>	Ex Stock		
		48V	1.25A	G31-60-48	UR		
	Nominal : <b>110VAC/DC</b>	5V	5A	G32-60-05	UR		
		12V	5A	G32-60-12	UR		
		15V	4A	G32-60-15	UR		
		<b>24V</b>	<b>2.5A</b>	<b>G32-60-24</b>	Ex Stock		
		48V	1.25A	G32-60-48	UR		
 <b>120W (CE marked)</b> <a href="http://www.shavison.com/pdf/21300.pdf">http://www.shavison.com/pdf/21300.pdf</a>	Nominal : <b>230VAC/DC</b> *With de-rating : 100 to 270VAC 110 to 360VDC	12V	8A	G31-120-12	Ex Stock		
		15V	8A	G31-120-15	Ex Stock		
		<b>24V</b>	<b>5A</b>	<b>G31-120-24</b>	Ex Stock		
		48V	2.5A	G31-120-48	Ex Stock		
		Nominal : <b>110VAC/DC</b>	12V	8A	G32-120-12	UR	
	15V		8A	G32-120-15	UR		
	<b>24V</b>		<b>5A</b>	<b>G32-120-24</b>	Ex Stock		
	48V		2.5A	G32-120-48	UR		
	 <b>250W</b> <a href="http://www.shavison.com/pdf/21400.pdf">http://www.shavison.com/pdf/21400.pdf</a>		Nominal : <b>230VAC/DC</b>	12V	20A	G31-250-12	UR
		15V		15A	G31-250-15	UR	
<b>24V</b>		<b>10A</b>		<b>G31-250-24</b>	Ex Stock		
30V		8A		G31-250-30	UR		
48V		5A		G31-250-48	Ex Stock		
Nominal : <b>110VAC/DC</b>		<b>24V</b>	<b>10A</b>	<b>G32-250-24</b>	Ex Stock		
		30V	8A	G32-250-30	UR		
		48V	5A	G32-250-48	UR		
		 <b>360W</b> <a href="http://www.shavison.com/pdf/21500.pdf">http://www.shavison.com/pdf/21500.pdf</a>	Nominal : <b>230VAC/DC</b>	12V	30A	G31-360-12	UR
				<b>24V</b>	<b>15A</b>	<b>G31-360-24</b>	Ex Stock
36V	10A			G31-360-36	UR		
 <b>500W</b> <a href="http://www.shavison.com/pdf/21600.pdf">http://www.shavison.com/pdf/21600.pdf</a>	Nominal : <b>230VAC/DC</b>	<b>24V</b>	<b>20A</b>	<b>G31-500-24</b>	Ex Stock		
		48V	10A	G31-500-48	Ex Stock		



\* : For de-rating refer datasheet

SMPS HSN : 85044090	Input	Output		Order Code	Availability (UR : Upon Request)
		Voltage DC	Current at Nominal Input		
 <p><b>70W Dual Output</b></p> <p><a href="http://www.shavison.com/pdf/22000.pdf">http://www.shavison.com/pdf/22000.pdf</a></p>	Nominal : <b>230VAC/DC</b>  *With de-rating: 100 to 270VAC 110 to 360VDC	+5V	5A	G31-70-05-05	UR
		-5V	1.5A		
		+12V	4A		
		-12V	1.5A	G31-70-12-12	
		+15V	3A		
		-15V	1.5A	G31-70-15-15	
		+24V	2A	G31-70-24-05	Ex Stock
		+5V	1.5A		
		+24V	2A	G31-70-24-12	Ex Stock
		+12V	1.5A		
	+12V	4A	G31-70-12-05	UR	
	+5V	1.5A			
	+5V	5A			
	Nominal : <b>110VAC/DC</b>	-5V	1.5A		G32-70-05-05
		+12V	4A		G32-70-12-12
		-12V	1.5A		
		+15V	3A		G32-70-15-15
		-15V	1.5A		
		+24V	2A		G32-70-24-05
+5V		1.5A			
+24V		2A	G32-70-24-12		
+12V		1.5A			
+12V		4A	G32-70-12-05		
+5V	1.5A				

\* : For de-rating refer datasheet


DC – DC Converter HSN : 85044090	Input	Output	Order Code	Availability (UR : Upon Request)
 <p><b>24W</b></p> <p><a href="http://www.shavison.com/pdf/21110.pdf">http://www.shavison.com/pdf/21110.pdf</a></p>	Nominal : <b>24VDC</b> Input Range : 18 to 36VDC	5VDC : 2.5A	G34-24-05	3 Weeks
		12VDC : 2A	G34-24-12	
		24VDC : 1A	G34-24-24	
• Contact us for other Input / Output requirements.				
 <p><b>120W</b></p> <p>G34 : <a href="http://www.shavison.com/pdf/21320.pdf">http://www.shavison.com/pdf/21320.pdf</a> G35 : <a href="http://www.shavison.com/pdf/21310.pdf">http://www.shavison.com/pdf/21310.pdf</a></p>	Nominal : <b>24VDC</b> Input Range : 18 to 36VDC	24VDC : 4A	G34-120-24	3 Weeks
	Nominal : <b>- 48VDC</b> Input Range : -38 to -60VDC	24VDC : 5A	G35-120-24	3 Weeks
• Contact us for other Input / Output requirements.				
 <p><b>70W Dual Output</b></p> <p><a href="http://www.shavison.com/pdf/22100.pdf">http://www.shavison.com/pdf/22100.pdf</a></p>	Nominal : <b>48VDC</b> Input Range : 38 to 60VDC	+15V : 3A -15V : 1.5A	G35-70-15-15	3 Weeks
		• Contact us for other Input / Output requirements.		

Open Frame SMPS HSN : 85044090	Input	Output		Order Code	Availability (UR : Upon Request)
		Voltage DC	Current at Nominal Input		
    <b>24W Single O/P</b> <a href="http://www.shavison.com/pdf/31100.pdf">http://www.shavison.com/pdf/31100.pdf</a>	Nominal : <b>230VAC/DC</b>  *With de-rating: 100 to 270VAC 110 to 350VDC	5V	2.5A	AS348-111	2 weeks
		12V	2A	AS348-113	Ex Stock
		15V	1.5A	AS348-114	2 weeks
		24V	1A	AS348-115	Ex Stock
		48V	0.5A	AS348-116	2 weeks
	Nominal : <b>110VAC/DC</b>	5V	2.5A	AS348-151	2 weeks
		12V	2A	AS348-153	
		15V	1.5A	AS348-154	
		24V	1A	AS348-155	
		48V	0.5A	AS348-156	
<ul style="list-style-type: none"> <li>• Add suffix D to order code for DIN Rail Mounting base.</li> <li>* : For de-rating refer datasheet</li> </ul>					
  <b>60W Single O/P</b> <a href="http://www.shavison.com/pdf/31200.pdf">http://www.shavison.com/pdf/31200.pdf</a>	Nominal : <b>230VAC/DC</b>	12V	5A	AS464-102	2 weeks
		15V	4A	AS464-103	
		24V	2.5A	AS464-104	
		36V	1.6A	AS464-105	
		28V	2A	AS464-106	
	Nominal : <b>110VAC/DC</b>	12V	5A	AS464-152	
		15V	4A	AS464-153	
		24V	2.5A	AS464-154	
		36V	1.6A	AS464-155	
		28V	2A	AS464-156	
<b>Dual Output Open Frame SMPS</b> HSN : 85044090	Input	Output		Order Code	Availability (UR : Upon Request)
    <b>25W Dual O/P</b> <a href="http://www.shavison.com/pdf/32100.pdf">http://www.shavison.com/pdf/32100.pdf</a>	Nominal : <b>230VAC/DC</b>	5V : 2.5A	12V : 2A*	AS469-101	UR
		5V : 2.5A	24V : 1A*	AS469-102	
		+15V : 1.5A	-15V : 1.5A*	AS469-103	
		12V : 1.5A	12V : 1.5A*	AS469-104	
		8V : 250mA	17V : 1.5A*	AS469-106	
	Nominal : <b>110VAC/DC</b>	5V : 2.5A	-5V : 100mA	AS469-115	
		5V : 2.5A	12V : 2A*	AS469-151	
		5V : 2.5A	24V : 1A*	AS469-152	
		+15V : 1.5A	-15V : 1.5A*	AS469-153	
		12V : 1.5A	12V : 1.5A*	AS469-154	
	8V : 250mA	17V : 1.5A*	AS469-156		
<ul style="list-style-type: none"> <li>• * : Unreg. Output</li> <li>• Add suffix C to order code for CPU connector at I/O Terminals.</li> <li>• Add suffix D to order code for DIN Rail Mounting plastic base.</li> </ul>					
<b>Contact us for specific requirements</b>					

Open Frame SMPS HSN : 85044090	Input	Output	Order Code	Availability (UR : Upon Request)
 <p><b>CPU Type I/O Connector</b></p>  <p><b>Screw Type I/O Terminals</b></p> <p><b>60W* Multiple O/P</b></p> <p><a href="http://www.shavison.com/pdf/33100.pdf">http://www.shavison.com/pdf/33100.pdf</a></p>	Nominal : <b>230VAC/DC</b>	5V : 1A +/- 5V : 100mA +/- 12V : 250mA 34V : 1.5A	AS492-101C	3 weeks
		12V : 750mA +/- 5V : 350mA 24V : 50mA	AS492-102C	
		12V : 350mA 15V : 2A OR 30V : 2A 5V : 350mA	AS492-103C	
		12V : 350mA 15V : 2A OR 30V : 2A 5V : 350mA	AS492-104C	
		5V : 1A 24V : 2.5A 5V : 500mA	AS492-105C	
		5V : 1A +/- 5V : 100mA +/- 12V : 250mA 24V : 1.5A	AS492-106C	
		5V : 2A 12V : 1.5A 24V : 600mA	AS492-107C	
	<b>90 - 270VAC</b>	5V:2A -5V:0.3A 12V:0.3A 24V:1.5A	AS492-108C	
	<b>90 - 270VAC</b>	5V : 2A - 5V : 300mA 12V : 300mA 48V : 1.5A	AS492-109C	
	<b>230VAC/DC</b>	5V : 1A +/- 5V : 100mA +/- 12V : 250mA 13V : 1.5A	AS492-111C	




• Remove suffix C from order code for screw Type I/O Terminals (C – CPU connector)  
 \*Total wattage should not exceed 60W ( For details refer datasheet )


**Contact us for specific requirements**


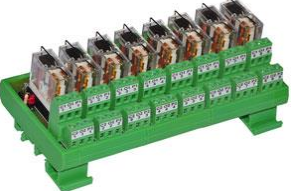



SMPS - Accessories HSN : 85437099	Description	Current Rating		Input	Order Code	Availability (UR : Upon Request)
		Redundant	Parallel			
 <p><b>Redundancy / Paralleling Modules</b></p> <p><a href="http://www.shavison.com/pdf/42000.pdf">http://www.shavison.com/pdf/42000.pdf</a></p> <p><a href="#">Application Note</a></p>	<ul style="list-style-type: none"> <li>2C/O Monitor relay across each power supply</li> </ul>	20A	40A	12VDC	AS451-101	2 Weeks
				24VDC	AS451-102	Ex Stock
				48VDC	AS451-103	2 Weeks
				15VDC	AS451-104	2 Weeks
		10A	20A	12VDC	AS452-101	2 Weeks
				24VDC	AS452-102	Ex Stock
				48VDC	AS452-103	2 Weeks
				110VDC	AS452-105	2 Weeks




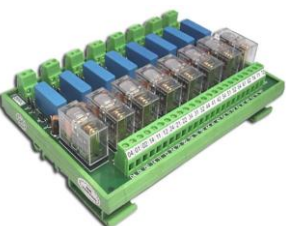

  


HSN : 85369090	Description	Order Code	Availability (UR : Upon Request)
	<ul style="list-style-type: none"> <li>Voltage Rating : 100VDC / 230VAC</li> <li>Current Rating Input : 10A max.</li> <li>Current Rating Output : 5A per channel</li> <li>Input side : 1 x 2 way Terminals</li> <li>Output side : 6 x 2 way Terminals</li> </ul>	AS331	Ex Stock
<ul style="list-style-type: none"> <li>Voltage Rating : 100VDC / 230VAC</li> <li>Current Rating Input : 20A max.</li> <li>Current Rating Output : 5A per channel</li> <li>Input side : 2 x 2 way Terminals</li> <li>Output side : 12 x 2 way Terminals</li> </ul>	AS333	Ex Stock	


Battery Charger HSN : 85044030	Input	Output		Order Code	Availability (UR : Upon Request)
		Voltage DC	Current at Nominal Input		
 <b>120W</b> <a href="http://www.shavison.com/pdf/D1000.pdf">http://www.shavison.com/pdf/D1000.pdf</a>	Nominal : <b>230VAC</b> With Fan	12V	10A	BCW-1210	Ex Stock
	Nominal : <b>230VAC</b> Without Fan	24V	5A	BCW-2405	Ex Stock
 <b>250W</b> <a href="http://www.shavison.com/pdf/D2000.pdf">http://www.shavison.com/pdf/D2000.pdf</a>	Nominal : <b>230VAC</b>	12V	20A	BCD-1220	UR
		24V	10A	BCD-2410	Ex Stock
		36V	6A	BCD-3606	UR
		48V	5A	BCD-4805	UR
 <b>500W</b> <a href="http://www.shavison.com/pdf/D3000.pdf">http://www.shavison.com/pdf/D3000.pdf</a>	Nominal : <b>230VAC</b>	24V	20A	BCD-2420	Ex Stock
		36V	13A	BCD-3613	UR
		48V	10A	BCD-4810	UR
<ul style="list-style-type: none"> <li>Automatic Boost and Float control</li> <li>Operates as FCBC or SMPS at Float voltage.</li> </ul>					


Voltage Monitor Relay HSN : 91070000	Operation	Input Range	Supply Voltage	Order Code	Availability (UR : Upon Request)
Applications : <ul style="list-style-type: none"> <li>Voltage Monitoring</li> <li>Dynamic Braking</li> <li>Resistor Protection</li> </ul>  <b>Voltage Monitor Relay</b> <a href="http://www.shavison.com/pdf/94000.pdf">http://www.shavison.com/pdf/94000.pdf</a>	<ul style="list-style-type: none"> <li>Monitors DC input voltage and triggers internal timer when input voltage goes above set voltage.</li> <li>After Set time delay (0-60 sec), Relay change over occurs.</li> <li>Resets if input voltage comes down below set voltage</li> </ul>	0 – 10VDC Or 0 – 100VDC	85 – 270VAC	AS690-101	UR
		0 – 50VDC Or 0 – 500VDC		AS690-102	
		0 – 10VDC Or 0 – 100VDC	24VAC/DC	AS690-201	
		0 – 50VDC Or 0 – 500VDC		AS690-202	


<b>General Purpose Relay Modules</b> <small>HSN : 85369090</small>	<b>Description</b>	<b>Relay Socket</b>	<b>No. of Channels</b>	<b>Order Code</b>	<b>Availability</b> <small>(UR : Upon Request)</small>		
 <b>1 C/O General Purpose</b> <a href="http://www.shavison.com/pdf/G1000.pdf">http://www.shavison.com/pdf/G1000.pdf</a>	<ul style="list-style-type: none"> <li>• <b>1 C/O</b> Contacts</li> <li>• 24VDC Coil</li> <li>• -Ve / +Ve or isolated looping by jumpers (site selectable)</li> <li>• <b>OEN Relay</b></li> </ul>	Socket Mounted	4	GP04-1C-24V-S-OE	Ex Stock		
			8	GP08-1C-24V-S-OE	Ex Stock		
			16	GP16-1C-24V-S-OE	2 weeks		
<ul style="list-style-type: none"> <li>• -Ve, +Ve or Isolated Coil looping can be done with the jumpers supplied with.</li> </ul>							
 <b>2 C/O General Purpose</b> <a href="http://www.shavison.com/pdf/G2000.pdf">http://www.shavison.com/pdf/G2000.pdf</a>	<ul style="list-style-type: none"> <li>• <b>2 C/O</b> Contacts</li> <li>• 24VDC Coil</li> <li>• -Ve / +Ve or isolated looping by jumpers (site selectable)</li> <li>• <b>OEN Relay</b></li> </ul>	Socket Mounted	4	GP04-2C-24V-S-OE	Ex Stock		
			8	GP08-2C-24V-S-OE	Ex Stock		
<ul style="list-style-type: none"> <li>• -Ve, +Ve or Isolated Coil looping can be done with the jumpers supplied with.</li> </ul>							
 <b>1 C/O Fuse at pole General Purpose</b> <a href="http://www.shavison.com/pdf/G3000.pdf">http://www.shavison.com/pdf/G3000.pdf</a>	<ul style="list-style-type: none"> <li>• <b>1 C/O</b> Contacts</li> <li>• 24VDC Coil</li> <li>• -Ve / +Ve or isolated looping by jumpers (site selectable)</li> <li>• <b>OEN Relays</b></li> </ul>	Socket Mounted	4	GPF04-1C-24V-S-OE	2 weeks		
			8	GPF08-1C-24V-S-OE	2 weeks		
<ul style="list-style-type: none"> <li>• -Ve, +Ve or Isolated Coil looping can be done with the jumpers supplied with.</li> </ul>							
 <b>1 N/O Economy</b> <a href="http://www.shavison.com/pdf/11100.pdf">http://www.shavison.com/pdf/11100.pdf</a>	<ul style="list-style-type: none"> <li>• <b>1 N/O</b> Contacts</li> <li>• Reverse blocking diode</li> <li>• -Ve looped</li> <li>• 24VDC Coil</li> <li>• <b>OEN Relay</b></li> </ul>	Directly Soldered	4	AS383-24V-N-OE	MOQ : 50 3 Weeks		
			8	AS385-24V-N-OE			
		Socket Mounted	4	AS383-24V-N-S-OE			
			8	AS385-24V-N-S-OE			
<ul style="list-style-type: none"> <li>• Availability &amp; Prices for other relays (such as Omron G2RL) &amp; coil voltages shall be quoted against specific request.</li> <li>• Order code shown above is for -Ve looped coils. Replace N with P for +Ve looping</li> </ul>							
 <b>1 C/O Standard</b> <a href="http://www.shavison.com/pdf/11200.pdf">http://www.shavison.com/pdf/11200.pdf</a>	<ul style="list-style-type: none"> <li>• <b>1 C/O</b> Contacts</li> <li>• Reverse blocking diode</li> <li>• 24VDC Coil</li> <li>• -Ve / +Ve or isolated looping by jumpers (site selectable)</li> <li>• <b>OEN Relay</b></li> </ul>	Directly Soldered	1	AS361-24V-OE	Ex Stock		
			2	AS362-24V-OE	Ex Stock		
			4	AS363-24V-OE	Ex Stock		
			8	AS365-24V-OE	Ex Stock		
			12	AS366-24V-OE	UR		
			16	AS367-24V-OE	UR		
				Socket Mounted	1	AS361-24V-S-OE	Ex Stock
			2		2	AS362-24V-S-OE	Ex Stock
			4		4	AS363-24V-S-OE	Ex Stock
			8		8	AS365-24V-S-OE	Ex Stock
			12		12	AS366-24V-S-OE	UR
			16		16	AS367-24V-S-OE	UR
<ul style="list-style-type: none"> <li>• -Ve, +Ve or Isolated Coil looping can be done with the jumpers supplied with.</li> <li>• Availability &amp; Prices for other relays (such as Omron G2RL) &amp; coil voltages shall be quoted against specific request.</li> </ul>							



Relay Modules HSN : 85369090	Description	Relay Socket	No. of Channels	Order Code	Availability (UR : Upon Request)	
 <b>1 C/O Looped Coils</b> <a href="http://www.shavison.com/pdf/11200.pdf">http://www.shavison.com/pdf/11200.pdf</a>	<ul style="list-style-type: none"> <li>• <b>1 C/O</b> Contacts</li> <li>• Reverse blocking diode</li> <li>• -Ve looped ( Factory set ) 24VDC Coil OR +Ve looped</li> <li>• <b>OEN Relay</b></li> </ul>	Directly Soldered	4	AS353-24V-N-OE	MOQ : 50 3 Weeks	
			8	AS355-24V-N-OE		
			12	AS356-24V-N-OE		
		Socket Mounted	4	AS353-24V-N-S-OE		
			8	AS355-24V-N-S-OE		
			12	AS356-24V-N-S-OE		
			16	AS357-24V-N-S-OE		
<ul style="list-style-type: none"> <li>• Availability &amp; Prices for other relays (such as Omron G2RL) &amp; coil voltages shall be quoted against specific request.</li> <li>• Order code shown above is for -Ve looped coils. Replace N with P for +Ve looping. Price remains same.</li> </ul>						
 <b>1 C/O Sugar cube Looped Coils</b> <a href="http://www.shavison.com/pdf/11200.pdf">http://www.shavison.com/pdf/11200.pdf</a>	<ul style="list-style-type: none"> <li>• <b>1 C/O</b> Contacts</li> <li>• Reverse blocking diode</li> <li>• -Ve looped ( Factory set ) 24VDC Coil OR +Ve looped</li> <li>• <b>Sun hold Relay</b></li> </ul>	Directly Soldered	1	AS401-24V-N-SH	UR	
			2	AS402-24V-N-SH	UR	
			4	AS403-24V-N-SH	UR	
			8	AS405-24V-N-SH	Ex Stock	
			12	AS406-24V-N-SH	UR	
			16	AS407-24V-N-SH	UR	
<ul style="list-style-type: none"> <li>• Availability &amp; Prices for other relays &amp; coil voltages shall be quoted against specific request.</li> <li>• Order code shown above is for -Ve looped coils. Replace N with P for +Ve looping. Price remains same. Availability for -Ve looped coils is 3 Weeks.</li> </ul>						
 <b>1 C/O Sugar cube Isolated Coils</b> <a href="http://www.shavison.com/pdf/11200.pdf">http://www.shavison.com/pdf/11200.pdf</a>	<ul style="list-style-type: none"> <li>• <b>1 C/O</b> Contacts</li> <li>• Reverse blocking diode</li> <li>• 24VDC Coil</li> <li>• Isolated Coils</li> <li>• <b>Sun hold Relays</b></li> </ul>	Directly Soldered	1	AS411-24V-SH	UR	
			2	AS412-24V-SH	UR	
			4	AS413-24V-SH	Ex Stock	
			8	AS415-24V-SH	UR	
			12	AS416-24V-SH	UR	
			16	AS417-24V-SH	UR	
<ul style="list-style-type: none"> <li>• Availability &amp; Prices for other relays &amp; coil voltages shall be quoted against specific request.</li> </ul>						
 <b>1 C/O High Volt. Coils</b> <a href="http://www.shavison.com/pdf/11200.pdf">http://www.shavison.com/pdf/11200.pdf</a>	<ul style="list-style-type: none"> <li>• <b>1 C/O</b> Contacts</li> <li>• 230VAC Coil*</li> <li>• Isolated Coils</li> <li>• <b>OEN Relays</b></li> </ul>	Directly Soldered	1	AS421-230VAC-OE	Ex Stock	
			2	AS422-230VAC-OE	Ex Stock	
			4	AS423-230VAC-OE	Ex Stock	
			6	AS424-230VAC-OE	MOQ : 5, 3WK	
			8	AS425-230VAC-OE	Ex Stock	
			16	AS427-230VAC-OE	MOQ : 5, 3WK	
		Socket Mounted	1	AS421-230VAC-S-OE	Ex Stock	
			2	AS422-230VAC-S-OE	Ex Stock	
			4	AS423-230VAC-S-OE	Ex Stock	
			6	AS424-230VAC-S-OE	MOQ : 5, 3WK	
			8	AS425-230VAC-S-OE	Ex Stock	
			16	AS427-230VAC-S-OE	MOQ : 5, 3WK	
			Socket Mounted	4	AS423-110VAC-S-OE	MOQ : 5 3 Weeks
				8	AS425-110VAC-S-OE	
<ul style="list-style-type: none"> <li>• 110VAC Coil*</li> <li>• *These modules are with basic relay of 24VDC coil along with suitable voltage converter.</li> <li>• Order Code shown above is for 230VAC coils. Replace 230VAC with other voltages 48VDC, 110VDC as required. Price same as 230VAC coil.</li> <li>• Availability &amp; Prices for other relays (such as Omron G2RL) &amp; coil voltages shall be quoted against specific request.</li> </ul>						
 <b>1 C/O 24VAC Coils</b> <a href="http://www.shavison.com/pdf/11200.pdf">http://www.shavison.com/pdf/11200.pdf</a>	<ul style="list-style-type: none"> <li>• <b>1 C/O</b> Contacts</li> <li>• 24VAC Coil*</li> <li>• Isolated Coils</li> <li>• <b>OEN Relays</b></li> </ul>	Directly Soldered	1	AS621-24VAC-OE	3 Weeks	
			2	AS622-24VAC-OE		
			4	AS623-24VAC-OE		
			6	AS624-24VAC-OE		
		Socket Mounted	8	AS625-24VAC-OE		
			1	AS621-24VAC-S-OE	3 Weeks	
			2	AS622-24VAC-S-OE		
			4	AS623-24VAC-S-OE		
6	AS624-24VAC-S-OE					
8	AS625-24VAC-S-OE					
<ul style="list-style-type: none"> <li>• *These modules are with basic relay of 24VDC coil along with suitable voltage converter.</li> <li>• Availability &amp; Prices for other relays (such as Omron G2RL) shall be quoted against specific request.</li> </ul>						




Relay Modules HSN : 85369090	Description	Relay Socket	No. of Channels	Order Code	Availability (UR : Upon Request)		
 <p><b>1 C/O Fuse at pole with Fuse Fail Indication</b></p> <p><a href="http://www.shavison.com/pdf/11200.pdf">http://www.shavison.com/pdf/11200.pdf</a></p>	<ul style="list-style-type: none"> <li>• <b>1 C/O</b> Contacts</li> <li>• Reverse blocking diode</li> <li>• -Ve looped ( Factory set ) 24VDC Coil OR +Ve looped</li> <li>• <b>OEN Relays</b></li> </ul>	Directly Soldered	1	AS501-24V-N-OE-24VDC-2A	UR		
			2	AS502-24V-N-OE-24VDC-2A	3 Weeks		
			4	AS503-24V-N-OE-24VDC-2A	3 Weeks		
			6	AS504-24V-N-OE-24VDC-2A	UR		
			8	AS505-24V-N-OE-24VDC-2A	3 Weeks		
			16	AS507-24V-N-OE-24VDC-2A	UR		
		Socket Mounted	1	AS501-24V-N-S-OE-24VDC-2A	UR		
			2	AS502-24V-N-S-OE-24VDC-2A	3 Weeks		
			4	AS503-24V-N-S-OE-24VDC-2A	3 Weeks		
			6	AS504-24V-N-S-OE-24VDC-2A	UR		
			8	AS505-24V-N-S-OE-24VDC-2A	3 Weeks		
			16	AS507-24V-N-S-OE-24VDC-2A	UR		
			<ul style="list-style-type: none"> <li>• Order Code shown above is for -Ve looped coils, 24VDC Contact rating &amp; 2A Fuse rating. Replace N with P for +Ve looping, 24VDC with 230V for 230VAC or 110VAC &amp; 2A with 5A for 5 Amp fuse. Price remains same.</li> <li>• Availability &amp; Prices for other relays (such as Omron G2RL) &amp; coil voltages shall be quoted against specific request.</li> </ul>				










 <p><b>1 C/O with High voltage Coil &amp; Fuse at poles with Fuse Fail Indication</b></p> <p><a href="http://www.shavison.com/pdf/11200.pdf">http://www.shavison.com/pdf/11200.pdf</a></p>	<ul style="list-style-type: none"> <li>• <b>1 C/O</b> Contacts</li> <li>• 230VAC Coil*</li> <li>• Isolated Coils</li> <li>• <b>OEN Relays</b></li> </ul>	Directly Soldered	1	AS801-230VAC-OE-24VDC-5A	UR
			2	AS802-230VAC-OE-24VDC-5A	3 Weeks
			4	AS803-230VAC-OE-24VDC-5A	3 Weeks
			8	AS805-230VAC-OE-24VDC-5A	3 Weeks
		Socket Mounted	1	AS801-230VAC-S-OE-24VDC-5A	UR
			2	AS802-230VAC-S-OE-24VDC-5A	3 Weeks
			4	AS803-230VAC-S-OE-24VDC-5A	3 Weeks
			8	AS805-230VAC-S-OE-24VDC-5A	3 Weeks
		Socket Mounted	4	AS803-110VAC-S-OE-24VDC-5A	MOQ : 5
			8	AS805-110VAC-S-OE-24VDC-5A	3 Weeks
<ul style="list-style-type: none"> <li>• *These modules are with basic relay of 24VDC coil along with suitable voltage converter.</li> <li>• Order Code shown above is for 230VAC coils and 24VDC, 2A Contact Rating. Replace 230VAC with other voltages 48VDC, 110VDC as required &amp; 24VDC with 230V for 230VAC or 110VAC Contact rating &amp; Fuse rating as required. Price same as 230VAC coil.</li> <li>• Availability &amp; Prices for other relays (such as Omron G2RL) &amp; coil voltages shall be quoted against specific request.</li> </ul>					






Relay Modules HSN : 85369090	Description	Relay Socket	No. of Channels	Order Code	Availability (UR : Upon Request)
 <p><b>1 C/O Space Saver</b></p> <p><a href="http://www.shavison.com/pdf/11200.pdf">http://www.shavison.com/pdf/11200.pdf</a></p>	<ul style="list-style-type: none"> <li>• <b>1C/O</b> Contacts</li> <li>• Reverse blocking diode</li> <li>• <b>OEN Relays</b></li> </ul>	Directly Soldered	8	AS789-24V-N-OE ( For -Ve looped coils )	Ex Stock
				AS789-24V-P-OE ( For +Ve looped coils )	3 Weeks
<ul style="list-style-type: none"> <li>• Availability &amp; Prices for other relays (such as Omron G2RL) &amp; coil voltages shall be quoted against specific request for quantities above 50 Nos.</li> <li>• Order code shown above is for -Ve looped coils. Replace N with P for +Ve looping.</li> </ul>					







Relay Modules HSN : 85369090	Description	Relay Socket	No. of Channels	Order Code	Availability (UR : Upon Request)
 <p><b>2 C/O Standard</b></p> <p><a href="http://www.shavison.com/pdf/11300.pdf">http://www.shavison.com/pdf/11300.pdf</a></p>	<ul style="list-style-type: none"> <li>• <b>2 C/O</b> Contacts</li> <li>• Reverse blocking diode</li> <li>• 24VDC Coil</li> <li>• -Ve / +Ve or isolated looping by jumpers (site selectable)</li> <li>• <b>OEN Relay</b></li> </ul>	Directly Soldered	1	AS391-24V-OE	Ex Stock
			2	AS392-24V-OE	Ex Stock
			4	AS393-24V-OE	Ex Stock
			8	AS395-24V-OE	Ex Stock
			12	AS396-24V-OE	UR
			16	AS397-24V-OE	UR
		Socket Mounted	1	AS391-24V-S-OE	Ex Stock
			2	AS392-24V-S-OE	Ex Stock
			4	AS393-24V-S-OE	Ex Stock
			8	AS395-24V-S-OE	Ex Stock
			12	AS396-24V-S-OE	UR
			16	AS397-24V-S-OE	UR
<ul style="list-style-type: none"> <li>• -Ve, +Ve or Isolated Coil looping can be done with the jumpers supplied with.</li> <li>• Availability &amp; Prices for other relays (such as Omron G2RL) &amp; coil voltages shall be quoted against specific request.</li> </ul>					



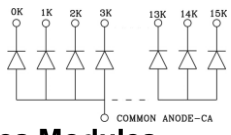

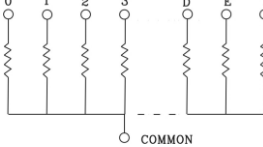

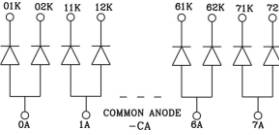

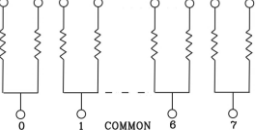


Relay Modules HSN : 85369090	Description	Relay Socket	No. of Channels	Order Code	Availability (UR : Upon Request)
 <b>2 C/O Looped Coils</b> <a href="http://www.shavison.com/pdf/11300.pdf">http://www.shavison.com/pdf/11300.pdf</a>	<ul style="list-style-type: none"> <li>• <b>2 C/O</b> Contacts</li> <li>• Reverse blocking diode</li> <li>• -Ve looped ( Factory set ) 24VDC Coil OR +Ve looped</li> <li>• <b>OEN Relay</b></li> </ul>	Directly Soldered	4	AS373-24V-N-OE	MOQ : 50 3 Weeks
			8	AS375-24V-N-OE	
			12	AS376-24V-N-OE	
			16	AS377-24V-N-OE	
		Socket Mounted	4	AS373-24V-N-S-OE	
			8	AS375-24V-N-S-OE	
			12	AS376-24V-N-S-OE	
<ul style="list-style-type: none"> <li>• Availability &amp; Prices for other relays (such as Omron G2RL) &amp; coil voltages shall be quoted against specific request.</li> <li>• Order code shown above is for -Ve looped coils. Replace N with P for +Ve looping. Price remains same.</li> </ul>					
 <b>2 C/O High Voltage Coils</b> <a href="http://www.shavison.com/pdf/11300.pdf">http://www.shavison.com/pdf/11300.pdf</a>	<ul style="list-style-type: none"> <li>• <b>2 C/O</b> Contacts</li> <li>• 230VAC Coil*</li> <li>• Isolated Coils</li> <li>• <b>OEN Relays</b></li> </ul>	Directly Soldered	1	AS431-230VAC-OE	Ex Stock
			2	AS432-230VAC-OE	Ex Stock
			4	AS433-230VAC-OE	Ex Stock
			8	AS435-230VAC-OE	Ex Stock
		Socket Mounted	1	AS431-230VAC-S-OE	Ex Stock
			2	AS432-230VAC-S-OE	Ex Stock
			4	AS433-230VAC-S-OE	Ex Stock
			8	AS435-230VAC-S-OE	Ex Stock
		Socket Mounted	4	AS433-110VAC-S-OE	MOQ : 5
			8	AS435-110VAC-S-OE	3 Weeks
<ul style="list-style-type: none"> <li>• *These modules are with basic relay of 24VDC coil along with suitable voltage converter.</li> <li>• Order Code shown above is for 230VAC coils. Replace 230VAC with other voltages 24VAC, 48VDC, 110VDC as required. Price same as 230VAC coil.</li> <li>• Availability &amp; Prices for other relays (such as Omron G2RL) &amp; coil voltages shall be quoted against specific request.</li> </ul>					

Relay Modules Special HSN : 85369090	Description	Relay Socket	No. of Channels	Order Code	Availability (UR : Upon Request)
 <b>Coil Connection through FRC / HE 10</b> <a href="http://www.shavison.com/pdf/12100.pdf">http://www.shavison.com/pdf/12100.pdf</a>	<ul style="list-style-type: none"> <li>• <b>1N/O</b> Contacts</li> <li>• Reverse blocking diode</li> <li>• -Ve looped (Factory set) 24VDC Coil</li> <li>• <b>OEN Relays</b></li> </ul>	Directly Soldered	16	AS334-24V-N-OE	3 Weeks
		Socket Mounted		AS334-24V-N-S-OE	3 Weeks
		<ul style="list-style-type: none"> <li>• Availability &amp; Prices for other relays (such as Omron G2RL) &amp; coil voltages shall be quoted against specific request.</li> <li>• Order code shown above is for -Ve looped coils. Replace N with P for +Ve looping. Price remains same.</li> </ul>			
 <b>1 C/O 30A Contacts</b> <a href="http://www.shavison.com/pdf/12500.pdf">http://www.shavison.com/pdf/12500.pdf</a>	<ul style="list-style-type: none"> <li>• <b>1C/O</b> Contacts Rated for 30 Amps</li> <li>• Reverse blocking diode</li> <li>• Isolated Coils</li> </ul>	Directly Soldered	1	AS548-101-24V	2 Weeks
			2	AS548-102-24V	2 Weeks
		<ul style="list-style-type: none"> <li>• Order code shown above is 24VDC coils. Availability &amp; Prices for other relays &amp; coil voltages shall be quoted against specific request.</li> <li>• Sun hold, Leone or equivalent relays.</li> </ul>			
 <b>1 C/O 30A Contacts High Voltage Coils</b> <a href="http://www.shavison.com/pdf/12F00.pdf">http://www.shavison.com/pdf/12F00.pdf</a>	<ul style="list-style-type: none"> <li>• <b>1C/O</b> Contacts Rated for 30 Amps</li> <li>• 230VAC Coil *</li> <li>• Isolated Coils</li> </ul>	Directly Soldered	1	AS701-230VAC-30A	UR
			2	AS702-230VAC-30A	
			4	AS703-230VAC-30A	
			6	AS704-230VAC-30A	
			8	AS705-230VAC-30A	
		<ul style="list-style-type: none"> <li>• *These modules are with basic relay of 24VDC coil along with suitable voltage converter.</li> <li>• Order Code shown above is for 230VAC coils. Replace 230VAC with other voltages 48VDC, 110VDC, 110VAC as required. Price remains same.</li> </ul>			

Relay Modules Special HSN : 85369090	Description	Relay Socket	No. of Channels	Order Code	Availability (UR : Upon Request)
 <b>Generator Control Interface</b> <a href="http://www.shavison.com/pdf/12F10.pdf">http://www.shavison.com/pdf/12F10.pdf</a>	<ul style="list-style-type: none"> <li>• <b>1 N/O</b> 70A rated Contacts</li> <li>• <b>1 C/O</b> 5A rated Contacts</li> <li>• Reverse Blocking Diode</li> </ul>	Directly Soldered	4	AS547-101 (12VDC Coil)	UR
				AS547-102 (24VDC Coil)	UR
 <b>2 C/O, High Sensitivity</b> <a href="http://www.shavison.com/pdf/12E00.pdf">http://www.shavison.com/pdf/12E00.pdf</a>	<ul style="list-style-type: none"> <li>• <b>2 C/O</b> Contacts</li> <li>• Signal Relays</li> <li>• Reverse Blocking Diode</li> <li>• 24VDC Coil</li> <li>• Coil looping by jumpers</li> </ul>	Directly Soldered	2	AS682-24V-G5V	UR
			4	AS683-24V-G5V	UR
<ul style="list-style-type: none"> <li>• Suitable for analog and digital signals of low voltage &amp; low current.</li> <li>• Availability &amp; Prices for other relays &amp; coil voltages shall be quoted against specific request.</li> </ul>					
 <b>1 N/O with Coil Thru FRC</b> <a href="http://www.shavison.com/pdf/12400.pdf">http://www.shavison.com/pdf/12400.pdf</a>	<ul style="list-style-type: none"> <li>• <b>1 N/O</b> Contacts</li> <li>• Coil Conn. Through FRC</li> <li>• Reverse Blocking Diode</li> <li>• <b>OEN Relay</b></li> </ul>	Directly Soldered	8	AS298-101	UR
 <b>CNC Specific Relay Module</b> <a href="http://www.shavison.com/pdf/12C00.pdf">http://www.shavison.com/pdf/12C00.pdf</a>	Description	Relay Socket	Order Code	Availability (UR : Upon Request)	
	<ul style="list-style-type: none"> <li>• 50 pin Male FRC Conn.</li> <li>• 24 Inputs, 24VDC each</li> <li>• 16 channel, <b>1 C/O</b> Relays</li> <li>• <b>OEN Relay</b></li> </ul>	Directly Soldered	AS717-OE	UR	
	<ul style="list-style-type: none"> <li>• Availability &amp; Prices for other relays (such as Omron G2RL) &amp; coil voltages shall be quoted against specific request.</li> </ul>	Socket Mounted	AS717-S-OE	3 Weeks	
 <b>2 C/O, with FRC conn. Input &amp; Cascading</b> <a href="http://www.shavison.com/pdf/12900.pdf">http://www.shavison.com/pdf/12900.pdf</a>	<ul style="list-style-type: none"> <li>• <b>8 Relays</b></li> <li>• <b>2 C/O</b> Contacts</li> <li>• +Ve looped</li> <li>• 24VDC Coil</li> <li>• <b>OEN Relay</b></li> </ul>	Directly Soldered	AS296-24V-OE	3 Weeks	
<ul style="list-style-type: none"> <li>• Availability &amp; Prices for other relays (such as Omron G2RL) &amp; coil voltages shall be quoted against specific request.</li> </ul>					
 <b>2 C/O, with FRC conn. Input &amp; Cascading</b> <a href="http://www.shavison.com/pdf/12900.pdf">http://www.shavison.com/pdf/12900.pdf</a>			Socket Mounted	AS296-24V-S-OE	UR
	<ul style="list-style-type: none"> <li>• Availability &amp; Prices for other relays (such as Omron G2RL) &amp; coil voltages shall be quoted against specific request.</li> </ul>				
 <b>1 C/O TTL/Low current input</b> <a href="http://www.shavison.com/pdf/12600.pdf">http://www.shavison.com/pdf/12600.pdf</a>	Description	Input	Aux. (Coil) Voltage	Order Code	Availability (UR : Upon Request)
	• <b>4 Relays</b>	5V, 1mA	24V	AS253-5V-24V-OE	3 Weeks
	<ul style="list-style-type: none"> <li>• <b>8 Relays</b></li> <li>• <b>1 C/O</b> Contacts</li> <li>• TTL/Low current Input</li> <li>• <b>OEN Relay</b></li> </ul>	5V, 1mA	12V	AS254-5V-12V-OE	
			24V	AS254-5V-24V-OE	
			24V, 5mA	12V	
24V				AS254-24V-24V-OE	
<ul style="list-style-type: none"> <li>• <i>Input &amp; Aux. are not isolated from each other.</i></li> <li>• Availability &amp; Prices for other relays (such as Omron G2RL) &amp; coil voltages shall be quoted against specific request.</li> </ul>					
 <b>1 C/O, Low Signal Relays, TTL/Low current input</b> <a href="http://www.shavison.com/pdf/12D00.pdf">http://www.shavison.com/pdf/12D00.pdf</a>	<ul style="list-style-type: none"> <li>• <b>8 Relays</b></li> <li>• <b>1 C/O</b> Contacts</li> <li>• TTL/Low current Input</li> <li>• Low Signal Relays</li> <li>• <b>Omron G5V-1 Relay</b></li> </ul>	5V, 1mA	24V	AS535-5V-24V-G5V	3 Weeks
			24V, 5mA	24V	
	<ul style="list-style-type: none"> <li>• <i>Input &amp; Aux. are not isolated from each other.</i></li> <li>• Availability &amp; Prices for other coil voltages shall be quoted against specific request.</li> </ul>				
 <b>2 C/O, TTL/Low current input</b> <a href="http://www.shavison.com/pdf/12700.pdf">http://www.shavison.com/pdf/12700.pdf</a>	<ul style="list-style-type: none"> <li>• <b>8 Relays</b></li> <li>• <b>2 C/O</b> Contacts</li> <li>• TTL/Low current Input</li> <li>• <b>OEN Relay</b></li> </ul>	5V, 1mA	12V	AS339-5V-12V-OE	3 Weeks
			24V	AS339-5V-24V-OE	
		24V, 5mA	12V	AS339-24V-12V-OE	
			24V	AS339-24V-24V-OE	
<ul style="list-style-type: none"> <li>• <i>Input &amp; Aux. are not isolated from each other.</i></li> <li>• Availability &amp; Prices for other relays (such as Omron G2RL) &amp; coil voltages shall be quoted against specific request.</li> </ul>					

Relay Modules Special HSN : 85369090	Description	Input	Aux.(Coil) Voltage	Order Code	Availability (UR : Upon Request)
 <p><b>2 C/O, With opto input</b> <a href="http://www.shavison.com/pdf/12800.pdf">http://www.shavison.com/pdf/12800.pdf</a></p>	<ul style="list-style-type: none"> <li>• <b>4 Relays</b></li> <li>• <b>2 C/O</b> Contacts</li> <li>• Opto Input 10mA</li> <li>• <b>OEN Relay</b></li> </ul>	5V	12V	AS720-5V-12V-OE	UR
			24V	AS720-5V-24V-OE	3 Weeks
		24V	12V	AS720-24V-12V-OE	UR
			24V	AS720-24V-24V-OE	3 Weeks
<ul style="list-style-type: none"> <li>• Availability &amp; Prices for other relays (such as Omron G2RL) &amp; opto Input shall be quoted against specific request.</li> </ul>					
Isolated : SSR HSN : 85369090	Description	No. of Channels	Input Voltage	Order Code	Availability (UR : Upon Request)
 <p>(Solenoid Driver) <b>SSR : DC - DC</b> <a href="http://www.shavison.com/pdf/131310.pdf">http://www.shavison.com/pdf/131310.pdf</a></p>	<ul style="list-style-type: none"> <li>• Life 100 times more than electro mech. Relay</li> <li>• Input current &lt;10mA</li> <li>• Output 12V ~ 48VDC, 1.5A</li> <li>• Operating Freq. upto 10KHz</li> <li>• Fuse at output</li> </ul>	4	3.3 ~ 30V	AS893-101	3 Weeks
		8	3.3 ~ 30V	AS895-101	3 Weeks
		<ul style="list-style-type: none"> <li>• Availability &amp; Prices for other channels (viz. 6, 12, 16) shall be quoted against specific request.</li> </ul>			
 <p><b>SSR : DC - DC</b> <a href="http://www.shavison.com/pdf/13110.pdf">http://www.shavison.com/pdf/13110.pdf</a></p>	<ul style="list-style-type: none"> <li>• Optical Isolation between I/O</li> <li>• Input current &lt;15mA</li> <li>• Output 24VDC, 2A</li> <li>• Operating Freq. upto 10KHz</li> <li>• <i>Not for Inductive Loads</i></li> </ul>	2	12V	AS782-12V-24V	3 Weeks
			24V	AS782-24V-24V	Ex Stock
		4	12V	AS783-12V-24V	3 Weeks
			24V	AS783-24V-24V	Ex Stock
		8	12V	AS785-12V-24V	3 Weeks
			24V	AS785-24V-24V	Ex Stock
<ul style="list-style-type: none"> <li>• Availability &amp; Prices for other channels (viz. 6, 12, 16) &amp; Input voltages (viz. 5V, 12V) shall be quoted against specific request.</li> </ul>					
 <p><b>SSR : DC - AC</b> <a href="http://www.shavison.com/pdf/13120.pdf">http://www.shavison.com/pdf/13120.pdf</a></p>	<ul style="list-style-type: none"> <li>• Optical Isolation between I/O</li> <li>• Input current 15mA</li> <li>• Output 70-270VAC, 2A</li> <li>• Operating Freq. upto 25Hz</li> <li>• Fuse at output</li> </ul>	4	12V	AS793-12V-230VAC-2A	3 Weeks
			24V	AS793-24V-230VAC-2A	Ex Stock
		8	12V	AS795-12V-230VAC-2A	3 Weeks
			24V	AS795-24V-230VAC-2A	Ex Stock
<ul style="list-style-type: none"> <li>• Availability &amp; Prices for other channels (viz. 6, 12, 16) &amp; Input voltages (viz. 5V, 12V) shall be quoted against specific request.</li> </ul>					
Non-Isolated : SSR HSN : 85369090	Description	No. of Channels	Input Voltage	Order Code	Availability (UR : Upon Request)
 <p>(Solenoid Driver) <b>SSR : DC - DC</b> <a href="http://www.shavison.com/pdf/13210.pdf">http://www.shavison.com/pdf/13210.pdf</a></p>	<ul style="list-style-type: none"> <li>• Life 100 times more than electro mech. Relay</li> <li>• Input current 15mA</li> <li>• High/Low Input selection with jumpers (site selectable)</li> <li>• Output 24VDC, 2.5A</li> <li>• Operating Freq. upto 10KHz</li> <li>• Fuse at output</li> </ul>	2	12V	AS772-12V-24V	3 Weeks
			24V	AS772-24V-24V	Ex Stock
		4	12V	AS773-12V-24V	3 Weeks
			24V	AS773-24V-24V	Ex Stock
		8	12V	AS775-12V-24V	3 Weeks
			24V	AS775-24V-24V	Ex Stock
<ul style="list-style-type: none"> <li>• Availability &amp; Prices for other channels (viz. 6, 12, 16) shall be quoted against specific request</li> </ul>					

<b>Opto Interface</b> <small>HSN : 85369090</small>	<b>Description</b>	<b>No. of Channels</b>	<b>Input Voltage</b>	<b>Order Code</b>	<b>Availability</b> <small>(UR : Upon Request)</small>		
 <b>DC Input Opto Isolator/ Level Shifter / NPN / PNP Converter</b> <a href="http://www.shavison.com/pdf/14000.pdf">http://www.shavison.com/pdf/14000.pdf</a>	<ul style="list-style-type: none"> <li>Optical Isolation between I/O</li> <li>Input current &lt; 15mA</li> <li>Output 5V-30VDC, 15mA</li> </ul>	2	12V	AS522-12V	3 Weeks		
			24V	AS522-24V	Ex Stock		
		4	12V	AS523-12V	3 Weeks		
			24V	AS523-24V	Ex Stock		
		8	3.3V**	AS525-3.3V	3 Weeks		
			12V	AS525-12V	3 Weeks		
			24V	AS525-24V	Ex Stock		
			1.3 ~ 1.8V**	AS525-152	3 Weeks		
		<ul style="list-style-type: none"> <li>Availability &amp; Prices for other channels (viz. 6, 12, 16) &amp; Input voltages (viz. 5V, 12V) shall be quoted against specific request.</li> <li>** : No Input LED Indication</li> </ul>					
		 <b>AC Input Opto Isolator</b> <a href="http://www.shavison.com/pdf/14100.pdf">http://www.shavison.com/pdf/14100.pdf</a>		2	230VAC	AS852-230VAC	3 Weeks
4	230VAC			AS853-230VAC	3 Weeks		
8	230VAC			AS855-230VAC	3 Weeks		
<ul style="list-style-type: none"> <li>Availability &amp; Prices for other channels (viz. 6, 12, 16) &amp; Input voltages shall be quoted against specific request.</li> </ul>							
<b>FRC / D-SUB (M/F) Connector To Wire</b> <small>HSN : 85369090</small>	<b>Description</b>	<b>No. of Pins</b>	<b>Order Code</b>	<b>Availability</b> <small>(UR : Upon Request)</small>			
 <b>FRC to Screw Connector</b> <a href="http://www.shavison.com/pdf/15000.pdf">http://www.shavison.com/pdf/15000.pdf</a>	<ul style="list-style-type: none"> <li>Voltage Rating : 100VDC</li> <li>Current Rating : 500mA</li> </ul>	10	AS581	Ex Stock			
		14	AS582				
		16	AS583				
		20	AS584				
		26	AS585				
		34	AS586				
		40	AS587				
		50	AS588				
		60	AS589				
 <b>DSUB to Screw Connector</b> <a href="http://www.shavison.com/pdf/15000.pdf">http://www.shavison.com/pdf/15000.pdf</a>	<ul style="list-style-type: none"> <li>Voltage Rating : 100VDC</li> <li>Current Rating : 500mA</li> </ul>	9	AS591-M	Ex Stock			
		15	AS592-M				
		25	AS593-M				
		37	AS594-M				
		50 (3 row)	AS595-M-3 ROW				
<ul style="list-style-type: none"> <li>Order Code shown above is for Male DSUB Connector. Replace M with F for Female DSUB connector. Price remains same.</li> </ul>							
<b>CABLES FRC / D-SUB (M/F)</b> <small>HSN : 85369090</small>	<b>Description</b>	<b>No. of Pins</b>	<b>Length</b>	<b>Order Code</b>	<b>Availability</b> <small>(UR : Upon Request)</small>		
 <b>FRC</b> <a href="http://www.shavison.com/pdf/15000.pdf">http://www.shavison.com/pdf/15000.pdf</a>	<ul style="list-style-type: none"> <li>Flat Ribbon Cable</li> <li>Current Rating : 500mA</li> <li>Available lengths : 1M, 2.5M, 5M, 10M</li> </ul>	10	1 meter	WA-FRC-10P-1M	1 Week		
		14		WA-FRC-14P-1M			
		16		WA-FRC-16P-1M			
		20		WA-FRC-20P-1M			
		26		WA-FRC-26P-1M			
		34		WA-FRC-34P-1M			
		40		WA-FRC-40P-1M			
		50		WA-FRC-50P-1M			
		60		WA-FRC-60P-1M			
		64		WA-FRC-64P-1M			
<ul style="list-style-type: none"> <li>Order Code shown above is for 1 meter long cable. Replace suffix -1M for other lengths.</li> <li>Availability &amp; Prices for other lengths (viz. 2.5, 5, 10 meter) shall be quoted against specific request.</li> </ul>							
 <b>DSUB Cable</b> <a href="http://www.shavison.com/pdf/15000.pdf">http://www.shavison.com/pdf/15000.pdf</a>	<ul style="list-style-type: none"> <li>DSUB to DSUB Connector Cable</li> <li>Current Rating : 500mA</li> </ul>	9	1 meter <sup>1</sup>	WA-DSUB-9P-MM-1M	2 Weeks		
		15		WA-DSUB-15P-MM-1M			
		25		WA-DSUB-25P-MM-1M			
		37		WA-DSUB-37P-MM-1M			
		50 (3 row)		WA-DSUB-50P-MM-1M			
		<ul style="list-style-type: none"> <li>Order Code shown above is for Male type connector at both ends. Replace MM with FF for Female type connectors. Replace with MF for Male &amp; Female type connectors at either ends.</li> <li>Note 1 : Order Code shown above is for 1 meter long cable. Replace suffix -1M for other lengths. (Viz. 2.5M, 5M, 10M)</li> <li>Availability &amp; Prices for other lengths (viz. 2.5, 5, 10 meter) shall be quoted against specific request.</li> </ul>					

Proximity Sensor Interface HSN : 85369090	Description	No. of Channels	Order Code	Availability (UR : Upon Request)	
 <b>Proximity Sensor Interface</b> <a href="http://www.shavison.com/pdf/93000.pdf">http://www.shavison.com/pdf/93000.pdf</a>	<ul style="list-style-type: none"> <li>PNP, NPN or Bipolar Indication by Jumpers</li> <li>24VDC Input</li> </ul>	1	AS441-24V	UR	
		2	AS442-24V	2 Weeks	
		4	AS443-24V	2 Weeks	
		6	AS444-24V	UR	
		8	AS445-24V	2 Weeks	
Diode / Resistor Modules HSN : 85369090	Description	No. of Diodes / Resistors	Order Code	Availability (UR : Upon Request)	
  <b>Diodes Modules</b> <a href="http://www.shavison.com/pdf/17000.pdf">http://www.shavison.com/pdf/17000.pdf</a>	<ul style="list-style-type: none"> <li>Common Anode / Cathode</li> <li>Common Terminal rating 10A Max</li> </ul>	2	AS601-CA-3A	UR	
		4	AS602-CA-3A		
		8	AS603-CA-3A		
		16	AS604-CA-3A		
		<ul style="list-style-type: none"> <li>Order code shown above is for Common Anode and 3 Amp current rating. Replace CA with CK for Common Cathode.</li> <li>Availability &amp; Prices for other channels shall be quoted against specific request.</li> </ul>			
  <b>Modules with Resistors</b> <a href="http://www.shavison.com/pdf/17000.pdf">http://www.shavison.com/pdf/17000.pdf</a>	<ul style="list-style-type: none"> <li>Bussed Resistors</li> <li>As per specifications</li> <li>Common Terminal rating 10A max.</li> </ul>	2	AS601-***	UR	
		4	AS602-***		
		8	AS603-***		
		16	AS604-***		
		<ul style="list-style-type: none"> <li>Provision for QW resistors. Availability &amp; Prices for other channels shall be quoted against specific request.</li> <li>AS601-100, AS602-100, AS603-100 Models are available with terminals, PCB and DIN Rail Mount Hardware. No components included.</li> </ul>			
  <b>Diodes Modules</b> <a href="http://www.shavison.com/pdf/17000.pdf">http://www.shavison.com/pdf/17000.pdf</a>	<ul style="list-style-type: none"> <li>Common Anode / Cathode</li> <li>Common Terminal rating 10A Max</li> </ul>	1	AS606-CA-1A	UR	
		2	AS607-CA-1A		
		4	AS608-CA-1A		
		8	AS609-CA-1A		
		<ul style="list-style-type: none"> <li>Order code shown above is for Common Anode and 1 Amp current rating. Replace CA with CK for Common Cathode.</li> <li>Availability &amp; Prices for other channels shall be quoted against specific request.</li> </ul>			
  <b>Modules with Resistors</b> <a href="http://www.shavison.com/pdf/17000.pdf">http://www.shavison.com/pdf/17000.pdf</a>	<ul style="list-style-type: none"> <li>Dual Resistors</li> <li>As per specifications</li> <li>Common Terminal rating 10A max.</li> </ul>	1	AS606-***	UR	
		2	AS607-***		
		4	AS608-***		
		8	AS609-***		
		<ul style="list-style-type: none"> <li>Provision for QW resistors. Availability &amp; Prices for other channels shall be quoted against specific request.</li> <li>AS606-100, AS607-100, AS608-100, AS609-100 Models are available with terminals, PCB and DIN Rail Mount Hardware. No components included.</li> </ul>			
Vibrator Control Card HSN : 85437099	Description	Order Code	Availability (UR : Upon Request)		
 <b>Half wave phase controlled DC output</b> <a href="http://www.shavison.com/pdf/92000.pdf">http://www.shavison.com/pdf/92000.pdf</a>	<ul style="list-style-type: none"> <li>Input : 230VAC, 47-63 Hz</li> <li>Output : Half wave phase controlled DC, 2A max.</li> <li>Presets to set Coarse and fine control</li> <li>Facility to connect external potentiometer or external 0 to 10VDC</li> <li>DIN Rail Mountable</li> </ul>	AS780-101	3 Weeks		
Precision Reference Source HSN : 85044090	Description	Table <sup>1</sup>		Order Code	Availability (UR : Upon Request)
 <b>10VDC : 20mA</b> <a href="http://www.shavison.com/pdf/50000.pdf">http://www.shavison.com/pdf/50000.pdf</a>		Linear Pot Value	No. of Pots		
	<b>Input :</b> Nominal : 230VAC Input Range : 180 – 270VAC <b>Output :</b> 10VDC : 20mA	1K	2	G31-24-10	Ex Stock
		2K	4		
		5K	10		
		10K	20		
<ul style="list-style-type: none"> <li><b>Note:</b> Multiple no. of pots can be connected as shown in Table<sup>1</sup>.</li> </ul>					

Analog Signal Converters HSN : 85437099	Input	Output 1	Output 2	Order Code		Availability (UR : Upon Request)	
				Aux Supply			
				90 ~ 270V AC	18 ~ 36V DC		
<b>Input : DC Voltage</b>							
0 - 20mV#	0 - 10VDC	0 - 10VDC	AS845-117	AS845-517	UR		
	4 - 20mA	0 - 10VDC	<b>AS845-112</b>	AS845-512	2 Weeks		
	4 - 20mA	4 - 20mA	AS845-118	AS845-518	UR		
0 - 75mV	0 - 10VDC	0 - 10VDC	AS845-104	AS845-504	UR		
	4 - 20mA	0 - 10VDC	<b>AS845-103</b>	AS845-503	<b>Ex Stock</b>		
	4 - 20mA	4 - 20mA	AS845-105	AS845-505	UR		
0 - 200mV	4 - 20mA	0 - 5VDC	AS845-203	AS845-523	2 Weeks		
	0 - 10VDC	0 - 10VDC	AS845-119	AS845-519	UR		
	4 - 20mA	0 - 10VDC	<b>AS845-111</b>	AS845-511	2 Weeks		
0 - 1VDC	4 - 20mA	4 - 20mA	AS845-120	AS845-520		UR	
	0 - 10VDC	0 - 10VDC	AS845-125	AS845-525			
	4 - 20mA	0 - 10VDC	AS845-126	AS845-526			
0 - 2VDC	4 - 20mA	4 - 20mA	AS845-127	AS845-527			
	0 - 10VDC	0 - 10VDC	AS845-128	AS845-528			
	4 - 20mA	0 - 10VDC	AS845-129	AS845-529			
0 - 2.5VDC	4 - 20mA	4 - 20mA	AS845-130	AS845-530			
	0 - 10VDC	0 - 10VDC	AS845-131	AS845-531			
	4 - 20mA	0 - 10VDC	AS845-132	AS845-532			
0 - 5VDC	4 - 20mA	4 - 20mA	AS845-133	AS845-533			
	0 - 10VDC	0 - 10VDC	AS845-134	AS845-534			
	4 - 20mA	0 - 10VDC	AS845-107	AS845-507	2 Weeks		
-3 to +10VDC	4 - 20mA	4 - 20mA	AS845-135	AS845-535	UR		
	4 - 20mA	0 - 5VDC	AS845-207	AS845-536	2 Weeks		
	-3 to +10VDC	-3 to +10VDC	AS845-137	AS845-537	UR		
0 - 10VDC	0 - 10VDC	0 - 10VDC	AS845-140	AS845-540		UR	
	4 - 20mA	0 - 10VDC	<b>AS845-101</b>	AS845-501	<b>Ex Stock</b>		
	4 - 20mA	4 - 20mA	AS845-152	AS845-552			
	0 - 20mA	0 - 20mA	AS845-139	AS845-539			
	200Hz - 20K	0 - 10VDC	AS845-121	AS845-521			
0 - 75VDC	200Hz - 20K	4 - 20mA	AS845-122	AS845-522			
	0 - 10VDC	0 - 10VDC	AS845-141	AS845-541			
	4 - 20mA	0 - 10VDC	AS845-114	AS845-514			
	4 - 20mA	4 - 20mA	AS845-142	AS845-542			
0 - 120VDC	4 - 20mA	0 - 5VDC	AS845-214	AS845-538			
	0 - 10VDC	0 - 10VDC	AS845-143	AS845-543			
	4 - 20mA	0 - 10VDC	AS845-115	AS845-515			
0 - 220VDC	4 - 20mA	4 - 20mA	AS845-144	AS845-544			
	0 - 10VDC	0 - 10VDC	AS845-145	AS845-545			
	4 - 20mA	0 - 10VDC	AS845-113	AS845-513			
0 - 300VDC	4 - 20mA	4 - 20mA	AS845-146	AS845-546			
	4 - 20mA	4 - 20mA	AS845-157	AS845-557			
● # : Not suitable for Load Cell Application.							
<b>Input : Current ( mA DC)</b>							
0 - 20mA	0 - 10VDC	0 - 10VDC	AS845-147	AS845-547		UR	
	4 - 20mA	0 - 10VDC	AS845-116	AS845-516			
	4 - 20mA	4 - 20mA	AS845-148	AS845-548			
4 - 20mA	0 - 10VDC	0 - 10VDC	AS845-149	AS845-549			
	4 - 20mA	0 - 10VDC	<b>AS845-102</b>	AS845-502	<b>Ex Stock</b>		
	4 - 20mA	4 - 20mA	<b>AS845-154</b>	AS845-554			
	4 - 20mA	0 - 5VDC	AS845-150	AS845-550			
	0 - 5VDC	0 - 5VDC	AS845-151	AS845-551	UR		
0 - 20mA	0 - 20mA	0 - 10VDC	AS845-158	AS845-558			
	0 - 20mA	0 - 10VDC	AS845-158	AS845-558			
<b>Input : Current ( Amp AC)</b>							
0 - 1A AC	0 - 10VDC	0 - 10VDC	AS865-101	AS865-501		UR	
	4 - 20mA	0 - 10VDC	AS865-102	AS865-502			
	4 - 20mA	4 - 20mA	AS865-103	AS865-503			
0 - 5A AC	0 - 10VDC	0 - 10VDC	AS865-104	AS865-504			
	4 - 20mA	0 - 10VDC	AS865-105	AS865-505			
	4 - 20mA	4 - 20mA	AS865-106	AS865-506			



**Dual Isolated Output**

<http://www.shavison.com/pdf/63000.pdf>

Analog Signal Converters HSN : 85437099	Input	Output 1	Output 2	Order Code		Availability (UR : Upon Request)
				Aux Supply		
				90 ~ 270V AC	18 ~ 36V DC	
<b>Input : Others</b>						
Potentiometer / Resistor 1K ~ 10K	0 - 10VDC	0 - 10VDC	AS845-155	AS845-555	UR	
	4 - 20mA	0 - 10VDC	<b>AS845-106</b>	AS845-506	<b>Ex Stock</b>	
	4 - 20mA	4 - 20mA	AS845-156	AS845-556	UR	
	0 - 20mA	0 - 10VDC	AS845-159	AS845-559		
<b>Input : Thermocouple K Type</b>						
-200 to +200°C	0 - 10VDC	0 - 10VDC	AS845-215	AS845-615	UR	
	4 - 20mA	0 - 10VDC	AS845-216	AS845-616		
	4 - 20mA	4 - 20mA	AS845-217	AS845-617		
-200 to +200°C	0 - 10VDC	0 - 10VDC	AS845-218	AS845-618		
	4 - 20mA	0 - 10VDC	AS845-219	AS845-619		
	4 - 20mA	4 - 20mA	AS845-220	AS845-620		
0 to 100°C	0 - 10VDC	0 - 10VDC	AS845-221	AS845-621		
	4 - 20mA	0 - 10VDC	AS845-222	AS845-622		
	4 - 20mA	4 - 20mA	AS845-223	AS845-623		
0 to 200°C	0 - 10VDC	0 - 10VDC	AS845-224	AS845-624		
	4 - 20mA	0 - 10VDC	AS845-225	AS845-625		
	4 - 20mA	4 - 20mA	AS845-226	AS845-626		
0 to 250°C	4 - 20mA	0 - 5VDC	AS845-248	AS845-648		
	4 - 20mA	0 - 10VDC	AS845-227	AS845-627		
0 to 300°C	0 - 10VDC	0 - 10VDC	AS845-228	AS845-628		
	4 - 20mA	0 - 10VDC	AS845-229	AS845-629		
	4 - 20mA	4 - 20mA	AS845-230	AS845-630		
0 to 400°C	0 - 10VDC	0 - 10VDC	AS845-231	AS845-631		
	4 - 20mA	0 - 10VDC	AS845-232	AS845-632		
	4 - 20mA	4 - 20mA	AS845-233	AS845-633		
0 to 500°C	0 - 10VDC	0 - 10VDC	AS845-234	AS845-634		
	4 - 20mA	0 - 10VDC	AS845-235	AS845-635		
	4 - 20mA	4 - 20mA	AS845-236	AS845-636		
0 to 600°C	0 - 10VDC	0 - 10VDC	AS845-237	AS845-637		
	4 - 20mA	0 - 10VDC	AS845-238	AS845-638		
	4 - 20mA	4 - 20mA	AS845-239	AS845-639		
0 to 800°C	0 - 10VDC	0 - 10VDC	AS845-240	AS845-640		
	4 - 20mA	0 - 10VDC	AS845-241	AS845-641		
	4 - 20mA	4 - 20mA	AS845-242	AS845-642		
0 to 1000°C	0 - 10VDC	0 - 10VDC	AS845-243	AS845-643		
	4 - 20mA	0 - 10VDC	AS845-244	AS845-644		
	4 - 20mA	4 - 20mA	AS845-245	AS845-645		
0 to 1200°C	0 - 10VDC	0 - 10VDC	AS845-246	AS845-646		
	4 - 20mA	0 - 10VDC	AS845-247	AS845-647		
	4 - 20mA	4 - 20mA	AS845-251	AS845-651		
<b>Input : Thermocouple J Type</b>						
0 to 100°C	0 - 10VDC	0 - 10VDC	AS845-252	AS845-652	UR	
	4 - 20mA	0 - 10VDC	AS845-253	AS845-653		
	4 - 20mA	4 - 20mA	AS845-254	AS845-654		
0 to 200°C	0 - 10VDC	0 - 10VDC	AS845-255	AS845-655		
	4 - 20mA	0 - 10VDC	AS845-256	AS845-656		
	4 - 20mA	4 - 20mA	AS845-257	AS845-657		
0 to 300°C	0 - 10VDC	0 - 10VDC	AS845-258	AS845-658		
	4 - 20mA	0 - 10VDC	AS845-259	AS845-659		
	4 - 20mA	4 - 20mA	AS845-260	AS845-660		
0 to 400°C	0 - 10VDC	0 - 10VDC	AS845-261	AS845-661		
	4 - 20mA	0 - 10VDC	AS845-262	AS845-662		
	4 - 20mA	4 - 20mA	AS845-263	AS845-663		
0 to 500°C	0 - 10VDC	0 - 10VDC	AS845-264	AS845-664		
	4 - 20mA	0 - 10VDC	AS845-265	AS845-665		
	4 - 20mA	4 - 20mA	AS845-266	AS845-666		
0 to 600°C	0 - 10VDC	0 - 10VDC	AS845-267	AS845-667		
	4 - 20mA	0 - 10VDC	AS845-268	AS845-668		
	4 - 20mA	4 - 20mA	AS845-269	AS845-669		
0 to 700°C	0 - 10VDC	0 - 10VDC	AS845-270	AS845-670		
	4 - 20mA	0 - 10VDC	AS845-271	AS845-671		
	4 - 20mA	4 - 20mA	AS845-272	AS845-672		
0 to 800°C	0 - 10VDC	0 - 10VDC	AS845-273	AS845-673		
	4 - 20mA	0 - 10VDC	AS845-274	AS845-674		
	4 - 20mA	4 - 20mA	AS845-274	AS845-674		



**Dual Isolated Output**

<http://www.shavison.com/pdf/63000.pdf>

Analog Signal Converters HSN : 85437099	Input	Output 1	Output 2	Order Code		Availability (UR : Upon Request)
				Aux Supply		
				90 ~ 270V AC	18 ~ 36V DC	
<b>Input : RTD – PT100, 2 or 3 Wire</b>						
-100 to +100°C	0 - 10VDC	0 - 10VDC	0 - 10VDC	AS845-301	AS845-701	UR
	4 - 20mA	0 - 10VDC	0 - 10VDC	AS845-302	AS845-702	
	4 - 20mA	4 - 20mA	4 - 20mA	AS845-303	AS845-703	
-50 to +200°C	0 - 10VDC	0 - 10VDC	0 - 10VDC	AS845-304	AS845-704	
	4 - 20mA	0 - 10VDC	0 - 10VDC	AS845-305	AS845-705	
	4 - 20mA	4 - 20mA	4 - 20mA	AS845-306	AS845-706	
-50 to +50°C	0 - 10VDC	0 - 10VDC	0 - 10VDC	AS845-307	AS845-707	
	4 - 20mA	0 - 10VDC	0 - 10VDC	AS845-308	AS845-708	
	4 - 20mA	4 - 20mA	4 - 20mA	AS845-309	AS845-709	
0 to 100°C	0 - 10VDC	0 - 10VDC	0 - 10VDC	AS845-310	AS845-710	
	4 - 20mA	0 - 10VDC	0 - 10VDC	AS845-311	AS845-711	
	4 - 20mA	4 - 20mA	4 - 20mA	AS845-312	AS845-712	
0 to 200°C	0 - 10VDC	0 - 10VDC	0 - 10VDC	AS845-313	AS845-713	
	4 - 20mA	0 - 10VDC	0 - 10VDC	AS845-314	AS845-714	
	4 - 20mA	4 - 20mA	4 - 20mA	AS845-315	AS845-715	
0 to 300°C	0 - 10VDC	0 - 10VDC	0 - 10VDC	AS845-316	AS845-716	
	4 - 20mA	0 - 10VDC	0 - 10VDC	AS845-317	AS845-717	
	4 - 20mA	4 - 20mA	4 - 20mA	AS845-318	AS845-718	
0 to 400°C	0 - 10VDC	0 - 10VDC	0 - 10VDC	AS845-319	AS845-719	
	4 - 20mA	0 - 10VDC	0 - 10VDC	AS845-320	AS845-720	
	4 - 20mA	4 - 20mA	4 - 20mA	AS845-321	AS845-721	
0 to 500°C	0 - 10VDC	0 - 10VDC	0 - 10VDC	AS845-322	AS845-722	
	4 - 20mA	0 - 10VDC	0 - 10VDC	AS845-323	AS845-723	
	4 - 20mA	4 - 20mA	4 - 20mA	AS845-324	AS845-724	
0 to 600°C	0 - 10VDC	0 - 10VDC	0 - 10VDC	AS845-325	AS845-725	
	4 - 20mA	0 - 10VDC	0 - 10VDC	AS845-326	AS845-726	
	4 - 20mA	4 - 20mA	4 - 20mA	AS845-327	AS845-727	
0 to 700°C	0 - 10VDC	0 - 10VDC	0 - 10VDC	AS845-328	AS845-728	
	4 - 20mA	0 - 10VDC	0 - 10VDC	AS845-329	AS845-729	
	4 - 20mA	4 - 20mA	4 - 20mA	AS845-330	AS845-730	
0 to 800°C	0 - 10VDC	0 - 10VDC	0 - 10VDC	AS845-331	AS845-731	
	4 - 20mA	0 - 10VDC	0 - 10VDC	AS845-332	AS845-732	
	4 - 20mA	4 - 20mA	4 - 20mA	AS845-333	AS845-733	



**Dual Isolated Output**

<http://www.shavison.com/pdf/63000.pdf>

Analog Signal Converters HSN : 85437099	Input	Output	Order Code	Availability (UR : Upon Request)
 <b>Single Output</b> <b>Slim Size : 22.5mm</b> <b>Aux Supply : 24VDC</b> <a href="http://www.shavison.com/pdf/62000.pdf">http://www.shavison.com/pdf/62000.pdf</a>	0 – 20mV	0 - 10VDC	AS746-101	UR
		4 - 20mA	AS746-102	
	0 – 75mV	0 - 10VDC	AS746-103	Ex Stock
		4 - 20mA	AS746-104	
	0 – 1VDC	0 - 10VDC	AS746-105	UR
		4 - 20mA	AS746-106	
	0 – 2VDC	0 - 10VDC	AS746-107	UR
		4 - 20mA	AS746-108	
	0 – 2.5VDC	0 - 10VDC	AS746-109	UR
		4 - 20mA	AS746-110	
	0 – 5VDC	0 - 10VDC	AS746-111	UR
		4 - 20mA	AS746-112	
	-3/0 to +10VDC	0 - 10VDC	AS746-113	Ex Stock
		4 - 20mA	AS746-114	
	0 – 15VDC	0 - 10VDC	AS746-604	UR
		4 - 20mA	AS746-115	
0 – 100VDC	0 - 10VDC	AS746-117	UR	
	4 - 20mA	AS746-119		
<b>Input : Current ( mA DC)</b>				
0 - 20mA	0 - 10VDC	AS746-151	UR	
	4 - 20mA	AS746-152		
4 - 20mA	0 - 10VDC	AS746-153	Ex Stock	
	4 - 20mA	AS746-154		
4 - 20mA	0 - 5VDC	AS746-601	UR	

<b>Analog Signal Converters</b> <small>HSN : 85437099</small>	<b>Input</b>	<b>Output</b>	<b>Order Code</b>	<b>Availability</b> <small>(UR : Upon Request)</small>
<b>Input : Thermocouple K Type</b>				
0 to 300°C	0 - 10VDC		AS746-201	UR
	4 - 20mA		AS746-202	UR
0 to 400°C	0 - 10VDC		AS746-203	UR
	4 - 20mA		AS746-204	UR
0 to 500°C	0 - 10VDC		AS746-205	UR
	4 - 20mA		AS746-206	UR
0 to 600°C	0 - 10VDC		AS746-207	UR
	4 - 20mA		AS746-208	UR
0 to 800°C	0 - 10VDC		AS746-209	UR
	4 - 20mA		AS746-210	UR
0 to 1000°C	0 - 10VDC		AS746-211	UR
	4 - 20mA		AS746-212	UR
0 to 1200°C	0 - 10VDC		AS746-213	UR
	4 - 20mA		AS746-214	UR
-200 to +200°C	0 - 10VDC		AS746-215	UR
	4 - 20mA		AS746-216	UR
-100 to +100°C	0 - 10VDC		AS746-217	UR
	4 - 20mA		AS746-218	UR
0 to 100°C	0 - 10VDC		AS746-219	UR
	4 - 20mA		AS746-220	UR
0 to 200°C	0 - 10VDC		AS746-221	UR
	4 - 20mA		AS746-222	UR
0 to 200°C	0 - 5VDC		AS746-603	UR
<b>Input : Thermocouple J Type</b>				
0 to 300°C	0 - 10VDC		AS746-226	UR
	4 - 20mA		AS746-227	UR
0 to 500°C	0 - 10VDC		AS746-228	UR
	4 - 20mA		AS746-229	UR
0 to 700°C	0 - 10VDC		AS746-230	UR
	4 - 20mA		AS746-231	UR
0 to 800°C	0 - 10VDC		AS746-232	UR
	4 - 20mA		AS746-233	UR
<b>Input : RTD – PT100, 2 or 3 Wire</b>				
-100 to +100°C	0 - 10VDC		AS746-301	UR
	4 - 20mA		AS746-302	UR
-50 to +50°C	0 - 10VDC		AS746-303	UR
	4 - 20mA		AS746-304	UR
0 to 100°C	0 - 10VDC		AS746-305	UR
	4 - 20mA		AS746-306	UR
0 to 200°C	0 - 10VDC		AS746-307	UR
	4 - 20mA		AS746-308	UR
0 to 300°C	0 - 10VDC		AS746-309	UR
	4 - 20mA		AS746-310	UR
0 to 400°C	0 - 10VDC		AS746-311	UR
	4 - 20mA		AS746-312	UR
0 to 500°C	0 - 10VDC		AS746-313	UR
	4 - 20mA		AS746-314	UR
0 to 600°C	0 - 10VDC		AS746-315	UR
	4 - 20mA		AS746-316	UR
0 to 700°C	0 - 10VDC		AS746-317	UR
	4 - 20mA		AS746-318	UR
0 to 800°C	0 - 10VDC		AS746-319	UR
	4 - 20mA		AS746-320	UR
-50 to +200°C	0 - 10VDC		AS746-321	UR
	4 - 20mA		AS746-322	UR
<ul style="list-style-type: none"> <li>• Add suffix – ET to order code for products with extended temperature range.</li> <li>• Price &amp; availability upon request.</li> </ul>				



**Single Output**




**Slim Size : 22.5mm**


**Aux Supply : 24VDC**

<http://www.shavison.com/pdf/62000.pdf>






Digital Timer HSN : 91070000	Modes	Time Ranges	Output Contact	Supply Voltage	Size (mm)	Order Code
 <b>Push Wheel</b> <a href="http://www.shavison.com/pdf/E1000.pdf">http://www.shavison.com/pdf/E1000.pdf</a>	<ul style="list-style-type: none"> <li>On Delay</li> <li>Interval</li> </ul> Counting : Down	9.99 Sec 99.9 Sec 999 Sec  99.9 Min 999 Min  99.9 Hr (Switch Selectable)	DPDT (2 C/O)	85~270V AC/DC	48x48	TDPW-48-Z
					72x72	TDPW-72-Z
					96x96	TDPW-96-Z
				24V AC/DC	48x48	TDPW-48-24V
					72x72	TDPW-72-24V
					96x96	TDPW-96-24V
 <b>3 Digit, Single Display</b> <a href="http://www.shavison.com/pdf/E2000.pdf">http://www.shavison.com/pdf/E2000.pdf</a>	<ul style="list-style-type: none"> <li>On Delay</li> <li>Interval</li> <li>Cyclic</li> </ul> Counting : Up / Down	9.99 Sec 99.9 Sec 999 Sec  9.59 Min : Sec 99.9 Min 999 Min  9.59 Hr : Min 99.9 Hr 999 Hr (Programmable)	DPDT (2 C/O)	85~270V AC/DC	48x48	TD1D-48-Z
					72x72	TD1D-72-Z
					96x96	TD1D-96-Z
				24V AC/DC	48x48	TD1D-48-24V
					72x72	TD1D-72-24V
					96x96	TD1D-96-24V
 <b>3 Digit, Dual Display</b> <a href="http://www.shavison.com/pdf/E3000.pdf">http://www.shavison.com/pdf/E3000.pdf</a>	<ul style="list-style-type: none"> <li>On Delay</li> <li>Interval</li> <li>Cyclic</li> <li>Instantaneous +Delayed</li> </ul> Counting : Up / Down	9.99 Sec 99.9 Sec 999 Sec  9.59 Min : Sec 99.9 Min 999 Min  9.59 Hr : Min 99.9 Hr 999 Hr (Programmable)	2 Nos. SPDT (1 C/O)	85~270V AC/DC	48x48	TD2D-48-Z
					72x72	TD2D-72-Z
					96x96	TD2D-96-Z
				24V AC/DC	48x48	TD2D-48-24V
					72x72	TD2D-72-24V
					96x96	TD2D-96-24V
 <b>Multi Function</b> <a href="http://www.shavison.com/pdf/E4000.pdf">http://www.shavison.com/pdf/E4000.pdf</a>	<ul style="list-style-type: none"> <li>On Delay</li> <li>Interval</li> <li>Cyclic</li> <li>Forward-pause-Reverse</li> <li>Batch Counting</li> <li>Instantaneous +Delayed</li> <li>Dual Set Point</li> </ul> Counting : Up / Down	99.99 Sec 999.9 Sec 9999 Sec  99.59 Min : Sec 999.9 Min 9999 Min  99.59 Hr : Min 999.9 Hr 9999 Hr (Programmable)	2 Nos. (1 N/O)	85~270V AC/DC	48x48	TDMF-48-Z
					2 Nos. SPDT (1 C/O)	72x72
			96x96			TDMF-96-Z
			2 Nos. SPDT (1 C/O)	24V AC/DC	72x72	TDMF-72-24V
					96x96	TDMF-96-24V



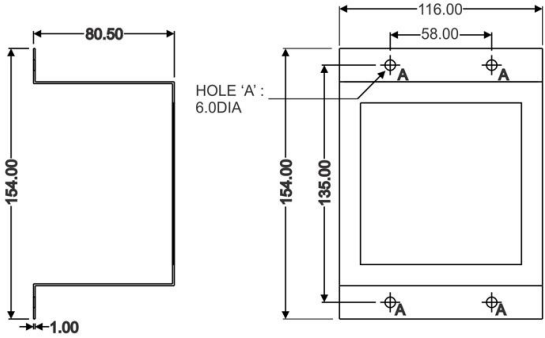
## Now Available


 <b>96 x 96mm Base Mount Hooters</b> Refer Page <a href="#">26</a>	 <b>1 x 6 Way Power Distribution Module</b> Refer Page <a href="#">8</a>	 <b>Isolated SSR : DC – DC</b> <b>Input : 3.3V to 30VDC</b> Refer Page <a href="#">15</a>
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<b>Analog Timer</b> <small>HSN : 91070000</small>	<b>Time Ranges</b>	<b>Output Contact</b>	<b>Supply Voltage</b>	<b>Order Code</b>	<b>Availability</b> <small>(UR: Upon Request)</small>
 <b>On Delay / Interval</b> <a href="http://www.shavison.com/pdf/B1000.pdf">http://www.shavison.com/pdf/B1000.pdf</a>	0 – 3 Sec / Min 0 – 10 Sec / Min 0 – 30 Sec / Min 0 – 60 Sec / Min (Switch Selectable)	SPDT (1 C/O)	230VAC Or 24V AC / DC	TADU-60M-W	Ex Stock
 <b>On Delay / Interval</b> <a href="http://www.shavison.com/pdf/B2000.pdf">http://www.shavison.com/pdf/B2000.pdf</a>	0 – 3 Sec / Min 0 – 10 Sec / Min 0 – 30 Sec / Min 0 – 60 Sec / Min (Switch Selectable)	DPDT (2 C/O)	110VAC Or 24V AC / DC	TADU-60M-X	Ex Stock
 <b>On Delay / Interval</b> <a href="http://www.shavison.com/pdf/B2000.pdf">http://www.shavison.com/pdf/B2000.pdf</a>	0 – 3 Sec / Min 0 – 10 Sec / Min 0 – 30 Sec / Min 0 – 60 Sec / Min (Switch Selectable)	DPDT (2 C/O)	20 - 240VAC Or 12 - 240VDC	TADU-60M-U	Ex Stock
 <b>On Delay / Interval</b> <a href="http://www.shavison.com/pdf/B3000.pdf">http://www.shavison.com/pdf/B3000.pdf</a>	0 – 1 Sec / Min / Hr 0 – 3 Sec / Min / Hr 0 – 10 Sec / Min / Hr 0 – 30 Sec / Min / Hr (Switch Selectable)	DPDT (2 C/O)	20 - 240VAC Or 12 - 240VDC	TADU-30H-U	Ex Stock
 <b>On Delay</b> <a href="http://www.shavison.com/pdf/B4000.pdf">http://www.shavison.com/pdf/B4000.pdf</a>	0 – 30 Sec ( Factory Set)	SPDT (1 C/O)	110VAC	TAON-30S-110AC	3 Weeks
			230VAC	TAON-30S-230AC	Ex Stock
			415VAC	TAON-30S-415AC	Ex Stock
 <b>On Delay</b> <a href="http://www.shavison.com/pdf/B4000.pdf">http://www.shavison.com/pdf/B4000.pdf</a>	0 – 60 Sec ( Factory Set)		110VAC	TAON-60S-110AC	3 Weeks
			230VAC	TAON-60S-230AC	Ex Stock
			415VAC	TAON-60S-415AC	Ex Stock
 <b>Star Delta</b> <a href="http://www.shavison.com/pdf/B5000.pdf">http://www.shavison.com/pdf/B5000.pdf</a>	Star Run up time range : 0-30 Sec, 0-60 Sec ( Switch Selectable)  Change over time : 50 msec or 100 msec ( Switch Selectable)	SPDT (1 C/O) each for Star & Delta	110VAC	TASN-60S-110AC	Ex Stock
		230VAC	TASN-60S-230AC	Ex Stock	
		415VAC	TASN-60S-415AC	Ex Stock	
 <b>Cyclic ON First Or OFF First</b> <a href="http://www.shavison.com/pdf/B6000.pdf">http://www.shavison.com/pdf/B6000.pdf</a>	<b>ON Time</b> 0 – 1 Sec / Min / Hr 0 – 10 Sec / Min / Hr ( Switch Selectable)  <b>OFF Time</b> 0 – 1 Sec / Min / Hr 0 – 10 Sec / Min / Hr ( Switch Selectable)	DPDT (2 C/O)	20 - 240VAC Or 12 - 240VDC	TACY-10H-U	Ex Stock
 <b>True Power OFF</b> <a href="http://www.shavison.com/pdf/B7000.pdf">http://www.shavison.com/pdf/B7000.pdf</a>	0 – 60 Sec ( Factory Set)	DPDT (2 C/O)	110 – 240V AC/DC	TATP-60S-Z	Ex Stock
	0 – 180 Sec ( Factory Set)			TATP-180S-Z	Ex Stock

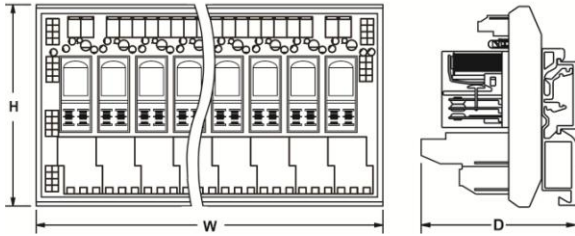
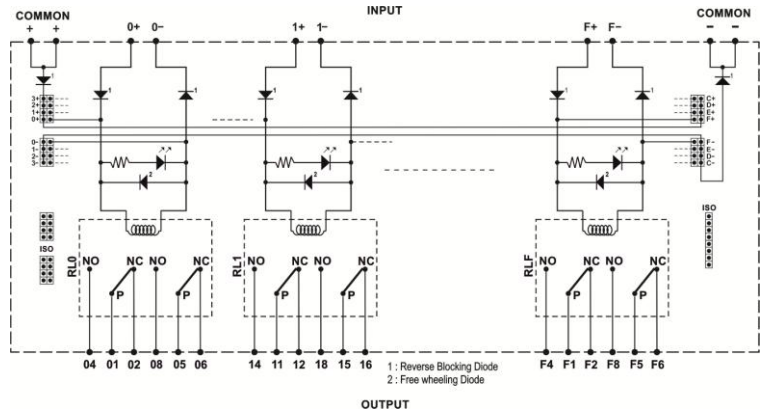
<b>Analog Timer</b> <small>HSN : 91070000</small>	<b>Time Ranges</b>	<b>Output Contact</b>	<b>Supply Voltage</b>	<b>Order Code</b>	<b>Availability</b> <small>(UR: Upon Request)</small>
 <b>Forward-Pause-Reverse</b> <a href="http://www.shavison.com/pdf/B8000.pdf">http://www.shavison.com/pdf/B8000.pdf</a>	<b>Run Time</b> 1/2/4/8 Sec / Min ( Switch Selectable)  <b>Pause Time</b> 1/2/4/8/10/20/40/80 Sec / Min ( Switch Selectable)	1 C/O (SPDT) each for Forward & Reverse	20 - 240VAC Or 12 - 240VDC	TAFR-8M-U	Ex Stock
 <b>Pulse ON First or OFF First</b> <a href="http://www.shavison.com/pdf/BE000.pdf">http://www.shavison.com/pdf/BE000.pdf</a>	<b>Pulse Time</b> 0 – 3 Sec / Min / Hr 0 – 30 Sec / Min / Hr ( Switch Selectable)  <b>Time Period</b> 0 – 3 Sec / Min / Hr 0 – 30 Sec / Min / Hr ( Switch Selectable)	DPDT (2 C/O)	20 - 240VAC Or 12 - 240VDC	TAPL-30H-U	UR
 <b>On Delay / Interval</b> <a href="http://www.shavison.com/pdf/BA000.pdf">http://www.shavison.com/pdf/BA000.pdf</a>	0 – 3 Sec / Min 0 – 10 Sec / Min 0 – 30 Sec / Min 0 – 60 Sec / Min (Switch Selectable)	DPDT (2 C/O)	230VAC	T4DU-60M-230AC	Ex Stock
 <b>On Delay / Interval</b> <a href="http://www.shavison.com/pdf/B9000.pdf">http://www.shavison.com/pdf/B9000.pdf</a>	0 – 3 Sec / Min 0 – 10 Sec / Min 0 – 30 Sec / Min 0 – 60 Sec / Min (Switch Selectable)	SPDT (1 C/O)	230VAC Or 24VAC/DC	T4DU-60M-W	Ex Stock
			110VAC Or 24VAC/DC	T4DU-60M-X	Ex Stock
 <b>On Delay / Interval</b> <a href="http://www.shavison.com/pdf/BB000.pdf">http://www.shavison.com/pdf/BB000.pdf</a>	0 – 1 Sec / Min / Hr 0 – 3 Sec / Min / Hr 0 – 10 Sec / Min / Hr 0 – 30 Sec / Min / Hr (Switch Selectable)	DPDT (2 C/O)	230VAC	T4DU-30H-230AC	Ex Stock
 <b>On Delay / Interval</b> <a href="http://www.shavison.com/pdf/BC000.pdf">http://www.shavison.com/pdf/BC000.pdf</a>	0 – 1 Sec / Min / Hr 0 – 3 Sec / Min / Hr 0 – 10 Sec / Min / Hr 0 – 30 Sec / Min / Hr (Switch Selectable)	DPDT (2 C/O)	20 - 240VAC Or 12 - 240VDC	T4DU-30H-U	Ex Stock
 <b>Cyclic ON First Or OFF First</b> <a href="http://www.shavison.com/pdf/BD000.pdf">http://www.shavison.com/pdf/BD000.pdf</a>	<b>ON Time</b> 0 – 1 Sec / Min / Hr 0 – 10 Sec / Min / Hr ( Switch Selectable)  <b>OFF Time</b> 0 – 1 Sec / Min / Hr 0 – 10 Sec / Min / Hr ( Switch Selectable)	DPDT (2 C/O)	20 - 240VAC Or 12 - 240VDC	T4CY-10H-U	Ex Stock

<b>Hooter</b> HSN : 85311090	<b>Features</b>	<b>Tone</b>	<b>Supply Voltage</b>	<b>Order Code</b>	<b>Availability</b> (UR : Upon Request)
 <b>72 x 72mm Standard</b> <a href="http://www.shavison.com/pdf/C1000.pdf">http://www.shavison.com/pdf/C1000.pdf</a>	<ul style="list-style-type: none"> <li>• Volume control</li> <li>• Accept Function : Terminals on Back</li> <li>• Audio level 110db</li> </ul>	2	230VAC	H72S-230AC	Ex Stock
		2	24VDC	H72S-24DC	
		2	110VAC	H72S-110AC	
 <b>96 x 96mm Standard</b> <a href="http://www.shavison.com/pdf/C2000.pdf">http://www.shavison.com/pdf/C2000.pdf</a>	<ul style="list-style-type: none"> <li>• Volume control</li> <li>• Accept Function : Terminals on Back</li> <li>• Audio level 110db</li> </ul>	2	230VAC	H92S-230AC	Ex Stock
		2	24VDC	H92S-24DC	
		2	110VAC	H92S-110AC	
 <b>96 x 96mm Flasher</b> <a href="http://www.shavison.com/pdf/C2000.pdf">http://www.shavison.com/pdf/C2000.pdf</a>	<ul style="list-style-type: none"> <li>• LED Flasher</li> <li>• Volume control</li> <li>• Accept Function : Push Button on Front &amp; Terminals on Back</li> <li>• Audio level 110db</li> </ul>	2	230VAC	H92F-230AC	Ex Stock
		2	24VDC	H92F-24DC	
 <b>96 x 96mm Flasher Universal Supply</b> <a href="http://www.shavison.com/pdf/C2000.pdf">http://www.shavison.com/pdf/C2000.pdf</a>	<ul style="list-style-type: none"> <li>• LED Flasher</li> <li>• Volume control</li> <li>• Accept Function : Push Button on Front &amp; Terminals on Back</li> <li>• Audio level 110db</li> <li>• Universal Supply</li> </ul>	4	20 – 240VAC Or 12 - 240VDC	H94F-U	Ex Stock
 <b>144 x 144mm Flasher Universal Supply</b> <a href="http://www.shavison.com/pdf/C3000.pdf">http://www.shavison.com/pdf/C3000.pdf</a>	<ul style="list-style-type: none"> <li>• LED Flasher</li> <li>• Volume control</li> <li>• Accept Function : Push Button on Front &amp; Terminals on Back</li> <li>• Audio level 110db</li> <li>• Universal Supply</li> </ul>	4	20 – 240VAC Or 12 - 240VDC	H14F-U	2 Weeks

<b>Hooter</b> HSN : 85311090	<b>Features</b>	<b>Tone</b>	<b>Supply Voltage</b>	<b>Order Code</b>	<b>Availability</b> (UR Upon Request)	
 <p><b>96 x 96mm Base Mount</b></p> <p><a href="http://www.shavison.com/pdf/C2000.pdf">http://www.shavison.com/pdf/C2000.pdf</a></p>	<ul style="list-style-type: none"> <li>• LED Flasher</li> <li>• Volume control</li> <li>• Accept Function : Push Button on Front &amp; Terminals on Back</li> <li>• Audio level 110db</li> <li>• Universal Supply</li> <li>• Base Mount</li> </ul>	4	230VAC	H92F-230VAC-B	2 Weeks	
				24VDC		H92F-24VDC-B
				24VDC		H92S-24VDC-B
				20 – 240VAC Or 12 - 240VDC		H94F-UB
 <p><b>Wall Mount Clamp For 96x96mm Hooter</b></p>	<ul style="list-style-type: none"> <li>• Material : Black Powder Coated MS</li> <li>• For Wall Mounting 96x96mm Hooter</li> </ul>	 <p>All dimensions in mm</p>	FB468	UR		

<b>Modbus I/O Modules</b> HSN : 85437099	<b>Description</b>	<b>Model</b>	<b>I/O</b>	<b>Order Code</b>	<b>Availability</b> (UR : Upon Request)
 <p><b>SMART I/O's</b></p> <p><a href="http://www.shavison.com/pdf/70000.pdf">http://www.shavison.com/pdf/70000.pdf</a></p> <p><a href="#">Application Note</a></p>	<ul style="list-style-type: none"> <li>• Supports MODBUS RTU Comm. Protocol</li> <li>• On board SMPS works from 90 to 270VAC</li> </ul>	Relay Output Module	Output : 8 Channel, 1 C/O Relays	AS455-101	3 Weeks
		Relay Output Module with Socket Mounted	Output : 8 Channel, 1 C/O Relays	AS455-101-S	3 Weeks
		Digital Input Module	Input : 8 DI	AS456-101	3 Weeks
		Combo Module	Input : 4 DI Output : 4 channel, 1 C/O Relays	AS457-101	3 Weeks

## 2 C/O Modules With Jumpers for Coil Looping & Reverse Blocking Diodes

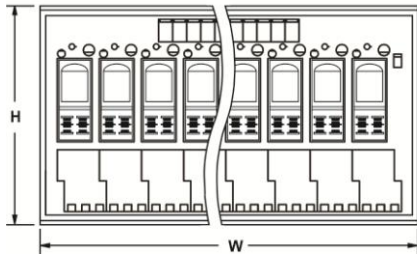
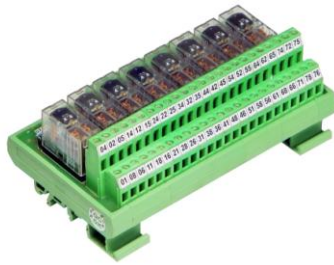


<b>FEATURES</b>	LED & Free wheeling diode across coil Jumpers for Coil Looping Reverse Polarity blocking diode					
<b>CONTACT CONFIGURATION</b>	2C/O					
<b>NO. OF CHANNELS</b>	1, 2, 4, 8, 12, 16					
<b>RELAY</b>	<b>NOMINAL COIL VOLTAGE</b>	5VDC	6VDC	12VDC	24VDC	48VDC
	<b>MUST OPERATE VOLTAGE</b>	4.7VDC	5.5VDC	11.0VDC	21VDC	39.8VDC
	<b>MUST RELEASE VOLTAGE</b>	1.7VDC	1.9VDC	3.8VDC	6.2VDC	11.0VDC
	<b>MAX. COIL VOLTAGE</b>	5.5VDC	6.6VDC	13.2 VDC	26.4VDC	52.8VDC
	<b>COIL CURRENT PER CHANNEL<sup>(1)</sup></b>	110mA	95mA	50mA	25mA	15mA
	<b>OPERATE (SET) TIME</b>	15ms max.				
	<b>RELEASE (RESET) TIME</b>	20ms max.				
	<b>ENDURANCE</b>	Electrical : 100,000 operations min. (at 1,800 operations/hr)				
<b>DIELECTRIC STRENGTH</b>	1. Coil to coil (when isolated) : 100VAC , 50/60 Hz for 1 minute					
	2. Coil to contact : 2KVAC , 50/60 Hz for 1 minute					
	3. Contacts of different polarity : 1KVAC , 50/60 Hz for 1 minute					
	4. Contacts of same polarity : 1KVAC , 50/60 Hz for 1 minute					
	5. Contacts - channel to channel : 1.5KVAC, 50/60 Hz for 1 minute					
<b>CONTACT RATING</b>	<b>RELAY</b>	5A@28VDC/230VAC				
	<b>ON BOARD</b>	5A@28VDC/230VAC				
<b>OPERATING AMBIENT</b>	0~55°C, 85% RH					
<b>STORAGE AMBIENT</b>	-20°C to 85°C					
<b>TERMINATIONS</b>	<b>COIL TERMINATION</b>	Screw type, for 1.5mm sq. wire				
	<b>CONTACT TERMINATION</b>	Screw type, for 2.5mm sq. wire				
<b>MOUNTING</b>	35 mm DIN rail					
<b>ORDERING INFORMATION</b>	<b>AS391,-24V,-S,-OE</b>					
	<b>NO. OF RELAYS</b>	<b>DESIGN NO.</b>	<b>COIL VOLTAGE</b>	<b>RELAY SOCKET</b>	<b>RELAY MAKE</b>	<b>DIMENSIONS W x H x D (mm)</b>
	1	AS391	12V : 12VDC 24V : 24VDC	S : WITH SOCKET : SOLDERED	OE : OEN 58 OL : OMRON G2RL	24 x 80 x 70
	2	AS392				46 x 80 x 70
	4	AS393				68 x 80 x 70
	8	AS395				137 x 80 x 70
	12	AS396				204 x 80 x 70
16	AS397	295 x 80 x 70				
<b>WEIGHT (MAX)</b>						
100 grams						
190 grams						
310 grams						
400 grams						
610 grams						
830 grams						

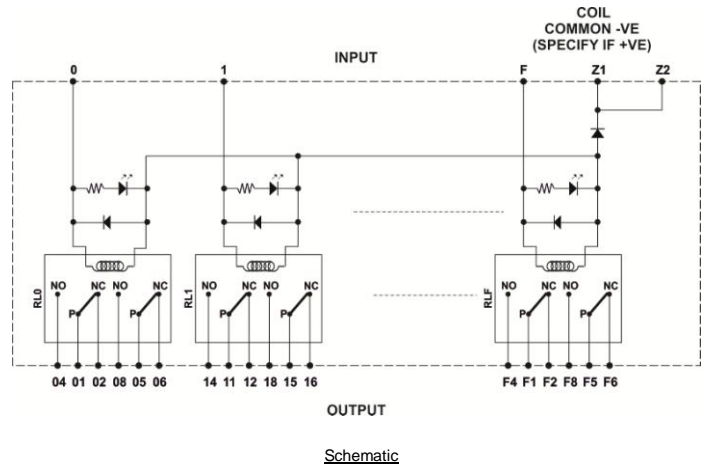
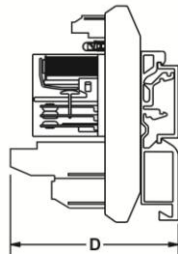
Note : 1. Current including LED current.

## 2 C/O RELAY INTERFACE MODULES

### 2 C/O Modules With Looped Coils



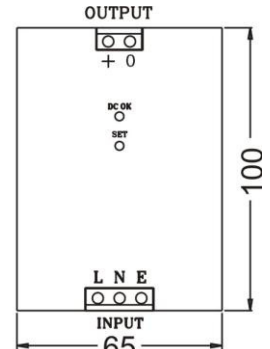
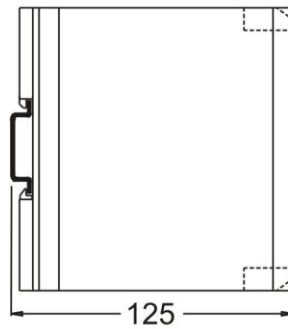
Dimensions



<b>FEATURES</b>	LED & Free wheeling diode across coil Reverse Polarity blocking diode							
<b>CONTACT CONFIGURATION</b>	2C/O							
<b>NO. OF CHANNELS</b>	1, 2, 4, 8, 12, 16							
<b>RELAY</b>	<b>NOMINAL COIL VOLTAGE</b>	5VDC	6VDC	12VDC	24VDC	48VDC		
	<b>MUST OPERATE VOLTAGE</b>	4.7VDC	5.5VDC	10.3VDC	20.3VDC	39.1VDC		
	<b>MUST RELEASE VOLTAGE</b>	1.7VDC	1.9VDC	3.1VDC	5.9VDC	10.3VDC		
	<b>MAX. COIL VOLTAGE</b>	5.5VDC	6.6VDC	13.2 VDC	26.4VDC	52.8VDC		
	<b>COIL CURRENT PER CHANNEL <sup>(1)</sup></b>	110mA	95mA	50mA	25mA	15mA		
	<b>OPERATE (SET) TIME</b>	15ms max.						
	<b>RELEASE (RESET) TIME</b>	20ms max.						
	<b>ENDURANCE</b>	Electrical : 100,000 operations min. (at 1,800 operations/hr)						
	<b>MAX. OPERATING FREQUENCY</b>	Mechanical : 18,000 operations/hr Electrical : 1,800 operations/hr						
<b>DIELECTRIC STRENGTH</b>	1. Coil to coil (when isolated) : 100VAC , 50/60 Hz for 1 minute 2. Coil to contact : 2KVAC , 50/60 Hz for 1 minute 3. Contacts of different polarity : 1KVAC , 50/60 Hz for 1 minute 4. Contacts of same polarity : 1KVAC , 50/60 Hz for 1 minute 5. Contacts - channel to channel : 1.5KVAC, 50/60 Hz for 1 minute							
<b>CONTACT RATING</b>	<b>RELAY</b>	5A@28VDC/230VAC						
	<b>ON BOARD</b>	5A@28VDC/230VAC						
<b>OPERATING AMBIENT</b>	0~55°C, 85% RH							
<b>STORAGE AMBIENT</b>	-20°C to 85°C							
<b>TERMINATIONS</b>	<b>COIL TERMINATION</b>	Screw type, for 1.5mm sq. wire						
	<b>CONTACT TERMINATION</b>	Screw type, for 2.5mm sq. wire						
<b>MOUNTING</b>	35 mm DIN rail							
<b>ORDERING INFORMATION</b>	<b>AS371 - 24V - N - S - OE</b>							
	<b>NO. OF RELAYS</b>	<b>DESIGN NO.</b>	<b>COIL VOLTAGE</b>	<b>COIL LOOPING</b>	<b>RELAY SOCKET</b>	<b>RELAY MAKE</b>	<b>DIMENSIONS W x H x D (mm)</b>	<b>WEIGHT (MAX)</b>
	1	AS371	12V : 12VDC 24V : 24VDC	N : -Ve LOOPING P : +Ve LOOPING	S : WITH SOCKET : SOLDERED	OE : OEN 58 OL : OMRON G2RL	24 x 80 x 70	70 grams
	2	AS372					46 x 80 x 70	110 grams
	4	AS373					68 x 80 x 70	200 grams
	8	AS375					137 x 80 x 70	360 grams
	12	AS376					204 x 80 x 70	550 grams
16	AS377	295 x 80 x 70					750 grams	

Note: 1. Current including LED current.

# 120W SMPS SINGLE OUTPUT



All dimensions in mm

<b>FEATURES</b>	<ul style="list-style-type: none"> <li>• Single Phase Input</li> <li>• Built In Transient protector &amp; EMI filter</li> <li>• Protection against short circuit, overload &amp; overvoltage</li> <li>• Low ripple &amp; noise</li> <li>• Cooling by free air convection</li> </ul>	<ul style="list-style-type: none"> <li>• Power OK indication, terminations, output set control &amp; rating details on front</li> <li>• 100% full load burn in tested</li> <li>• Low cost</li> <li>• High reliability</li> <li>• Compact</li> </ul>
<b>ISOLATION</b>	Input – Output : 3KVAC, 1 minute Input – Earth : 2KVAC, 1 minute Output – Earth : 0.5KVAC, 1 minute	
<b>EFFICIENCY</b>	80 ~ 85% with input 230VAC & full load at output	
<b>OUTPUT VOLTAGE ADJUSTMENT</b>	+/- 10% of nominal output voltage	
<b>OVERLOAD PROTECTION</b>	105% ~ 130% of rated load	
<b>LINE &amp; LOAD REGULATION</b>	Better than 0.5%	
<b>HOLD UP TIME</b>	> 20ms at rated input voltage and load (Refer Fig.4)	
<b>OPERATING AMBIENT</b>	0 ~ 50°C, 95% RH	
<b>STORAGE AMBIENT</b>	-20°C to 85°C	
<b>SAFETY STANDARD</b>	IS 13252(Part 1):2010/IEC 60950-1:2005	
<b>EMC STANDARD</b>	Design refers to EN55022, EN55024	
<b>APPROVAL / MARK</b>	CE & BIS MARKED	
<b>TERMINATIONS</b>	Screw type, for 2.5mm sq. wire	
<b>MOUNTING</b>	35 mm DIN rail	
<b>WEIGHT</b>	530 grams	

ORDERING INFORMATION	230VAC/DC INPUT		UNIVERSAL INPUT		OUTPUT	RIPPLE & NOISE	OVERVOLTAGE PROTECTION	
	INPUT VOLTAGE	AC	DC	AC				DC
	NOMINAL INPUT	230V	230V	230V				230V
	INPUT RANGE	185 ~ 270V	200 ~ 360V	100 ~ 270V				110 ~ 360V
	INPUT FREQUENCY	47 ~ 63Hz	—	47 ~ 63Hz				—
	INPUT CURRENT (max)	1.5A @230V	0.6A @230V	3A @110V				1.2A @230V
	INRUSH CURRENT	32A @230V	23A @230V	32A @230V				23A @230V
ORDER CODE	G41-120-05		G48-120-05		5V : 15A	< 100mV	< 7V	
	G41-120-12		G48-120-12		12V : 8.0A	< 120mV	< 16V	
	G41-120-15		G48-120-15		15V : 8.0A	< 150mV	< 20V	
	G41-120-19		G48-120-19		19V : 6.3A	< 190mV	< 24V	
	G41-120-24		G48-120-24		24V : 5.0A	< 240mV	< 30V	
	G41-120-28		G48-120-28		28V : 4.2A	< 280mV	< 35V	
	G41-120-36		G48-120-36		36V : 3.3A	< 360mV	< 45V	
	G41-120-48		G48-120-48		48V : 2.5A	< 480mV	< 63V	

- Note : 1. All parameters measured at nominal input, rated load and 25°C of ambient temperature unless otherwise specified.  
 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 100uf parallel capacitor.  
 3. The power supply is intended to be installed as a component inside the enclosure of final equipment. The final equipment must be re-confirmed that it still meets the EMC directives.  
 4. These units are designed for mounting on horizontal DIN rail. Ensure clearance of minimum 35mm from adjacent components for proper ventilation.

### Derating

#### Ambient temperature Vs Load current

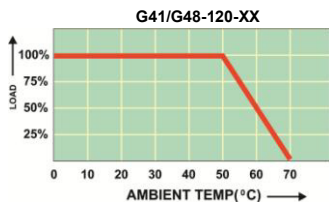


FIG.1

### Output Characteristics

#### Input voltage Vs Load current

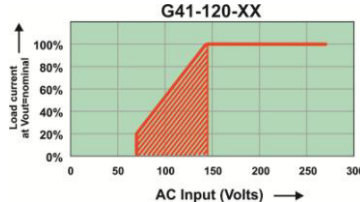


FIG.2

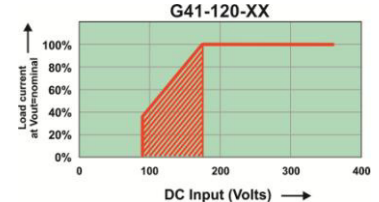


FIG.3

#### Brown-Out Sustainability

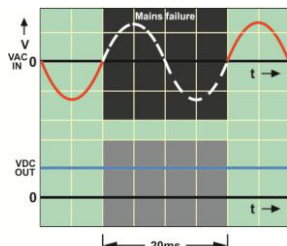


FIG.4

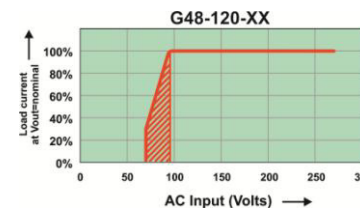


FIG.5

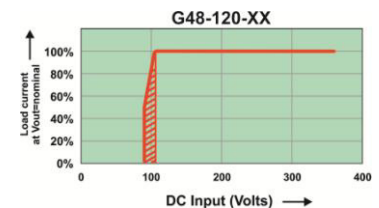
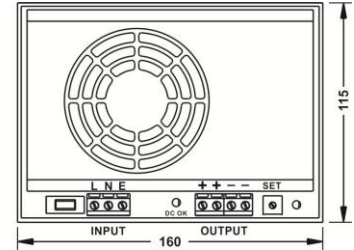
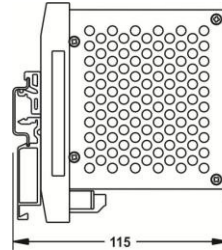


FIG.6



## 250W SMPS SINGLE OUTPUT

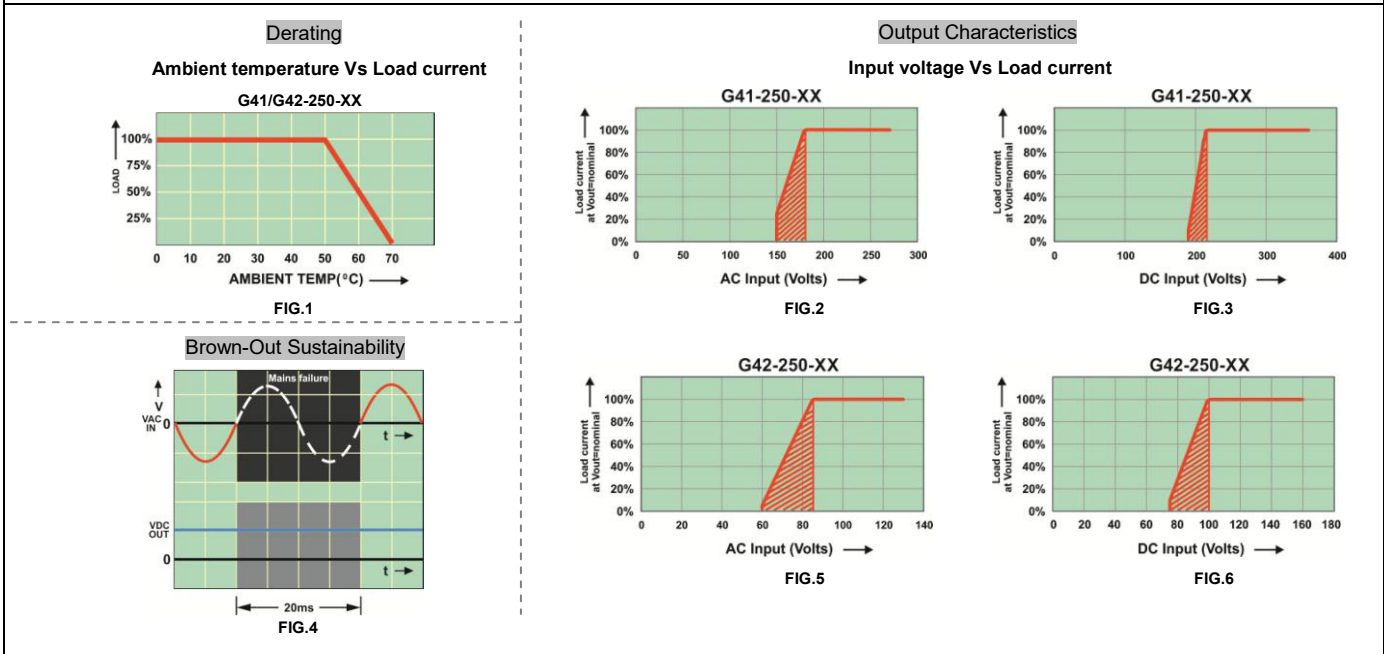


All dimensions in mm

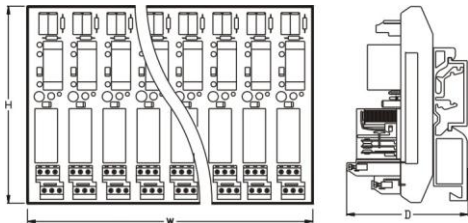
<b>FEATURES</b>	<ul style="list-style-type: none"> <li>• Single Phase Input</li> <li>• Built In Transient protector &amp; EMI filter</li> <li>• Protection against short circuit, overload, overvoltage &amp; overtemperature</li> <li>• Low ripple &amp; noise</li> <li>• Forced Cooling (Internal Fan with Automatic fan control)</li> <li>• Power OK indication, terminations, output set control &amp; rating details on front</li> <li>• 100% full load burn in tested</li> <li>• Low cost</li> <li>• High reliability</li> <li>• Compact</li> </ul>
<b>ISOLATION</b>	Input – Output : 3KVAC, 1 minute Input – Earth : 2KVAC, 1 minute Output – Earth : 0.5KVAC, 1 minute
<b>EFFICIENCY</b>	80 ~ 85% with input 230VAC & full load at output.
<b>OUTPUT VOLTAGE ADJUSTMENT</b>	+/- 10% of nominal output voltage
<b>OVERLOAD PROTECTION</b>	105% ~ 130% of rated load
<b>LINE &amp; LOAD REGULATION</b>	Better than 0.5%
<b>HOLD UP TIME</b>	> 20ms at rated input voltage and load (Refer FIG.4)
<b>OPERATING AMBIENT</b>	0 ~ 50°C, 95% RH
<b>STORAGE AMBIENT</b>	-20°C to 85°C
<b>SAFETY STANDARD</b>	IS 13252(Part 1):2010/IEC 60950-1:2005
<b>EMC STANDARD</b>	Design refers to EN55022, EN55024
<b>APPROVAL / MARK</b>	CE & BIS MARKED
<b>TERMINATIONS</b>	Screw type, for 2.5mm sq. wire
<b>MOUNTING</b>	35 mm DIN rail
<b>WEIGHT</b>	950 grams

ORDERING INFORMATION	230VAC/DC INPUT		110VAC/DC INPUT		OUTPUT	RIPPLE & NOISE	OVERVOLTAGE PROTECTION				
	INPUT VOLTAGE	AC	DC	AC				DC			
	<b>NOMINAL INPUT</b>	230V	230V	110V				110V			
	<b>INPUT RANGE</b>	185 ~ 270V	220 ~ 360V	90 ~ 130V				100 ~ 160V			
	<b>INPUT FREQUENCY</b>	47 ~ 63Hz	—	47 ~ 63Hz				—			
	<b>INPUT CURRENT (max)</b>	2.5A @230V	1.3A @230V	5A @ 90V				2.5A @110V			
	<b>INRUSH CURRENT</b>	32A @230V	23A @230V	16A @ 110V				11A @110V			
<b>ORDER CODE</b>											
			G41-250-12	G42-250-12	12V : 20.0A	< 120mV	< 16V				
			G41-250-15	G42-250-15	15V : 15.0A	< 150mV	< 20V				
			G41-250-19	G42-250-19	19V : 12.6A	< 190mV	< 24V				
			G41-250-24	G42-250-24	24V : 10.0A	< 240mV	< 30V				
			G41-250-30	G42-250-30	30V : 08.0A	< 300mV	< 36V				
			G41-250-36	G42-250-36	36V : 06.5A	< 360mV	< 45V				
			G41-250-48	G42-250-48	48V : 05.0A	< 480mV	< 63V				

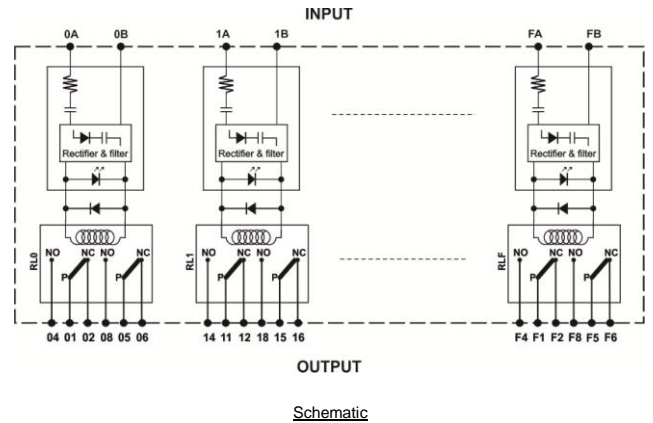
Note : 1. All parameters measured at nominal input, rated load and 25°C of ambient temperature unless otherwise specified.  
 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12' twisted pair-wire terminated with a 0.1uf & 100uf parallel capacitor.  
 3. The power supply is intended to be installed as a component inside the enclosure of final equipment. The final equipment must be re-confirmed that it still meets the EMC directives.  
 4. These units are designed for mounting on horizontal DIN rail. Ensure clearance of minimum 35mm from adjacent components for proper ventilation.



## 2 C/O Modules With High Voltage Isolated coils



Dimensions



<b>FEATURES</b>	LED & Free wheeling diode across coil					
<b>CONTACT CONFIGURATION</b>	2C/O					
<b>NO. OF CHANNELS</b>	1, 2, 4, 6, 8					
<b>RELAY</b>	<b>NOMINAL COIL VOLTAGE<sup>(1)</sup></b>	48VDC	110VDC	110VAC	230VAC	
	<b>MUST OPERATE VOLTAGE</b>	40VDC	90VDC	99VAC	207VAC	
	<b>MUST RELEASE VOLTAGE</b>	10VDC	20VDC	20VAC	45VAC	
	<b>MAX. COIL VOLTAGE</b>	55VDC	130VDC	130VAC	270VAC	
	<b>COIL CURRENT PER CHANNEL<sup>(2)</sup></b>	25mA	25mA	25mA	25mA	
	<b>OPERATE (SET) TIME</b>	15ms max.				
	<b>RELEASE (RESET) TIME</b>	20ms max.				
	<b>ENDURANCE</b>	Electrical : 100,000 operations min. (at 1,800 operations/hr)				
<b>MAX. OPERATING FREQUENCY</b>	Mechanical : 18,000 operations/hr Electrical : 1,800 operations/hr					
<b>DIELECTRIC STRENGTH</b>	1. Coil to coil (when isolated) : 100VAC , 50/60 Hz for 1 minute 2. Coil to contact : 2KVAC , 50/60 Hz for 1 minute 3. Contacts of different polarity : 1KVAC , 50/60 Hz for 1 minute 4. Contacts of same polarity : 1KVAC , 50/60 Hz for 1 minute 5. Contacts - channel to channel : 1.5KVC, 50/60 Hz for 1 minute					
<b>CONTACT RATING</b>	<b>RELAY</b>	5A@28VDC/230VAC				
	<b>ON BOARD</b>	5A@28VDC/230VAC				
<b>OPERATING AMBIENT</b>	0~55°C, 85% RH					
<b>STORAGE AMBIENT</b>	-20°C to 85°C					
<b>TERMINATIONS</b>	<b>COIL TERMINATION</b>	Screw type, for 2.5mm sq. wire				
	<b>CONTACT TERMINATION</b>	Screw type, for 2.5mm sq. wire				
<b>MOUNTING</b>	35 mm DIN rail					
<b>ORDERING INFORMATION</b>	<b>AS431 - 230VAC - S - OE</b>					
	<b>NO. OF RELAYS</b>	<b>DESIGN NO.</b>	<b>COIL VOLTAGE<sup>(1)</sup></b>	<b>RELAY SOCKET</b>	<b>RELAY MAKE</b>	<b>DIMENSIONS W x H x D (mm)</b>
	1	AS431	DC VOLTAGE 48VDC 110VDC	S : WITH SOCKET : SOLDERED	OE : OEN 58 OL : OMRON G2RL	24 x 115 x 70
	2	AS432				46 x 115 x 70
	4	AS433	AC VOLTAGE 110VAC 230VAC			91 x 115 x 70
	6	AS434				137 x 115 x 70
	8	AS435				159 x 115 x 70
						<b>WEIGHT (MAX)</b>
						90 grams
						160 grams
						270 grams
						390 grams
						500 grams

Note : 1. These modules are with basic relay of 24VDC coil along with suitable voltage converter.  
2. Current including LED current.

## Our Presence



## TERMS :

- Delivery : Through Courier/Transport. Freight shall be charged extra at actual or freight to pay basis.
- Delivery Period : Delivery period mentioned is indicative. Ex-stock items are subject to prior sale. Please confirm availability before placing purchase order.
- Goods once sold, shall not be taken back or replaced.
- Our responsibility ceases as soon as goods leaves our premises. Insurance shall be buyer's responsibility.
- Prices & terms are subject to change without prior notice.
- Payment Terms: 100% against proforma invoice by either cash or DD payable at Mumbai or through net banking / RTGS / NEFT. Cheques should be payable at Mumbai & goods shall be dispatched after the cheque clearance.
- Subject to Kalyan jurisdiction only.

## WARRANTY :

Shavison Electronics Pvt. Ltd. warrants the products manufactured by us, to be free from defects in material & workmanship for 12 months from the date of invoice. The services during the warranty period will be rendered on return of the product to our Ambernath works with freight paid to & fro.

The obligation under this warranty is limited to only repairing or replacing the product at our own discretion. This warrantee shall not apply to any defect, failure or damage caused by expiry of life cycle, accident, negligence, mis-application, alteration or attempt to repair, service or modify in any way. This warrantee does not cover any consequential or incidental damages occurred due to failure or malfunction of the product.

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NEFT / RTGS Code : UBIN0557625

## GST & PAN details :

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- PAN : AAPCS5652N
- CIN : U31401MH2011PTC215241

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