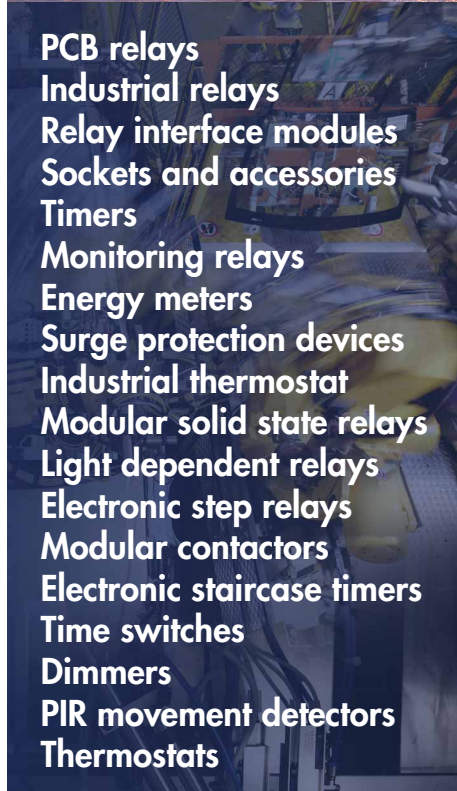





























# 2013 Catalogue





















PCB relays  
 Industrial relays  
 Relay interface modules  
 Sockets and accessories  
 Timers  
 Monitoring relays  
 Energy meters  
 Surge protection devices  
 Industrial thermostat  
 Modular solid state relays  
 Light dependent relays  
 Electronic step relays  
 Modular contactors  
 Electronic staircase timers  
 Time switches  
 Dimmers  
 PIR movement detectors  
 Thermostats





	Rated current	No. of Contacts	Features	Sockets
 <b>30 Series</b>	2 A	2 CO	<b>Subminiature DIL relays</b> - 2 Pole changeover contacts - Low level switching capability - Subminiature: - industry standard DIL package - Sensitive DC coil: 200 mW - Wash tight: RT III	
 <b>32 Series</b>	6 A	1 CO 1 NO	<b>Subminiature PCB relays</b> - 1 Pole changeover contacts or 1 Pole normally open contact - Subminiature, low profile package - Sensitive DC coil: 200 mW - Wash tight: RT III	
 <b>34 Series</b>	6 A	1 CO 1 NO	<b>Ultra-slim Electromechanical PCB relays</b> - Sensitive DC coil: 170 mW - 5 mm wide - 6kV (1.2/50 $\mu$ s) isolation, coil - contacts	 <b>93 Series</b>
	0.1 A 2 A	1 output (SSR)	<b>Ultra-slim Solid State PCB relays</b> - Sensitive DC input circuits - 5 mm wide - Silent, high speed switching with long electrical life	
 <b>36 Series</b>	10 A	1 CO 1 NO	<b>Printed circuit relay</b> - 1 Pole changeover contacts or 1 Pole normally open contact - Miniature "Sugar Cube" package - DC coil: 360 mW - Wash tight: RT III	
 <b>40 Series</b>	12 A 16 A	1 CO 1 NO	<b>Miniature PCB relay</b> - DC coils - 8mm, 6kV (1.2/50 $\mu$ s) isolation, coil - contacts - Flux proof: RT II standard - 3.5 or 5 mm pin pitch	 <b>95 Series</b>
	10 A 16 A	1 CO 1 NO	<b>Miniature PCB/plug-in relay</b> - DC coils & AC coils - 8mm, 6kV (1.2/50 $\mu$ s) isolation, coil - contacts - 3.5 or 5 mm pin pitch	
	8 A	2 CO 2 NO		
 <b>41 Series</b>	12 A 16 A	1 CO	<b>Low profile electromechanical PCB relay</b> - Low profile, 15.7 mm height - DC coils: 400mW - 8mm, 6kV (1.2/50 $\mu$ s) isolation, coil - contacts - Flux proof: RT II standard, (RT III option)	 <b>93 Series</b>
	8 A	2 CO		
	3 A 5 A	1 output (SSR)	<b>Low profile Solid State PCB relay</b> - Low profile, 15.7 mm height - Sensitive DC input circuits - Silent, high speed switching with long electrical life	
 <b>43 Series</b>	10 A 16 A	1 CO 1 NO	<b>Low profile PCB relay</b> - Low profile, 15.4 mm height - Sensitive DC coils: 250mW or 400mW - Very high coil contact isolation 10mm, 6kV (1.2/50 $\mu$ s) - Flux proof: RT II standard, (RT III option) - 3.2 or 5mm pin pitch	 <b>95 Series</b>
 <b>44 Series</b>	6 A 10 A	2 CO	<b>Miniature PCB relay</b> - High physical separation between adjacent contacts - DC coils - 8mm, 6kV (1.2/50 $\mu$ s) isolation, coil - contacts - Flux proof: RT II - 5mm pin pitch	 <b>95 Series</b>
 <b>45 Series</b>	16 A	1 NO 1 NC	<b>Miniature PCB relay</b> - Relay for +125°C ambient use - Contact gap $\geq$ 3mm according to EN 60730-1 - 8mm, 6kV (1.2/50 $\mu$ s) isolation, coil - contacts - Sensitive DC coil: 360mW - PCB mounting + Faston 250	

	Rated current	No. of Contacts	Features	Sockets
 <b>46 Series</b>	8 A	2 CO	<b>Miniature industrial relays</b> - Socket mount or direct connection via Faston connectors - AC & DC coils - Available with lockable test button, mechanical flag & LED indicator - 8 mm, 6 kV (1.2/50 μs) isolation, coil-contacts	 <b>97 Series</b>
	16 A	1 CO		
 <b>50 Series</b>	8 A	2 CO	<b>Safety relay (EN 50205)</b> - 2 Pole changeover contacts - PCB Relay with forcibly guided contacts according to EN 50205 type B - High physical separation between adjacent contacts - 8 mm, 6 kV (1.2/50 μs) isolation, coil-contacts - Flux proof: RT II	
 <b>55 Series</b>	10 A	2 CO 3 CO	<b>General purpose relays</b> - AC & DC coils - PCB or Plug-in mounting - Available with lockable test button, mechanical flag & LED indicator	 <b>94 Series</b>
	7 A	4 CO		
 <b>56 Series</b>	12 A	2 CO 2 NO 4 CO 4 NO	<b>Miniature power relays</b> - PCB or Plug-in mounting - Flange mount option (Faston 187 termination) - AC & DC coils - Available with lockable test button, mechanical flag & LED indicator	 <b>96 Series</b>
 <b>60 Series</b>	6 A	2 CO	<b>General purpose relays</b> - 8 & 11 pin plug-in - Flange mount - AC & DC coils, "current sensing relays" or "intensity relays" - Available with lockable test button, mechanical flag & LED indicator - Version with bifurcated contacts for low level switching	 <b>90 Series</b>
	10 A	3 CO		
 <b>62 Series</b>	16 A	2 CO 2 NO 3 CO 3 NO	<b>Power relays</b> - PCB mount or Plug-in mount (Faston 187) or Flange mount (Faston 250) - AC & DC coils - NO contacts options, > 3mm contact gap - LED, mechanical indicator & test button options	 <b>92 Series</b>
 <b>65 Series</b>	20 A	1 NO + 1 NC	<b>Power relays</b> - AC & DC coils - PCB mount or Flange mount (Faston 250) - NO version, > 3mm contact gap	
	30 A	1 NO		
 <b>66 Series</b>	30 A	2 CO 2 NO	<b>Power relays</b> - PCB mount or Flange mount (Faston 250) - AC & DC coils - 8mm, 6kV (1.2/50 μs) isolation, coil - contacts	

	Rated current	No. of Contacts	Features
 <b>38 Series</b>	6 A 16 A	1 CO	<b>Relay interface modules</b> - 6.2mm or 14mm wide - DC or AC/DC coil versions - Special coil / input leakage current suppression types - Screw & screwless terminals (SSR = Solid state relay)
	8 A	2 CO	
	0.1 A 2 A	1 SSR	
	3 A / 5 A	1 SSR	
 <b>39 Series</b>	6 A	1 CO	<b>Relay interface modules</b> <span style="background-color: #f4a460; border-radius: 50%; padding: 2px;">NEW</span> - 6.2mm wide - DC or AC/DC coil versions - Special coil / input leakage current suppression types - Extra protection with replaceable fuse - Timer version with 8 functions - Screw terminals (SSR = Solid state relay)
	0.1 A 2 A	1 SSR	
 <b>48 Series</b>	10 A 16 A	1 CO	<b>Relay interface modules</b> - 15.8mm wide - AC or DC coils - Instant ejection of relay using plastic retaining clip - Supply status indication and EMC coil suppression module as standard - Screw and screwless terminals
	10 A 8 A	2 CO	
 <b>49 Series</b>	10 A 16 A	1 CO	<b>Relay interface modules</b> - 15.8mm wide - AC or DC coils - Instant ejection of relay using plastic retaining clip - Supply status indication and EMC coil suppression module as standard - Screw and screwless terminals
	8 A	2 CO	
 <b>4C Series</b>	10 A 16 A	1 CO	<b>Relay interface modules</b> - 15.8mm wide - AC or DC coils - Instant ejection of relay using plastic retaining clip - Supply status indication and EMC coil suppression module as standard - Screw and screwless terminals - Mechanical indicator & test button
	8 A	2 CO	
 <b>58 Series</b>	10 A	2 CO 3 CO	<b>Relay interface modules</b> - 27mm wide - AC or DC coils - Instant ejection of relay using plastic retaining clip - Supply status indication and EMC coil suppression module as standard - Mechanical indicator & test button
	7 A	4 CO	
 <b>59 Series</b>	10 A	2 CO	<b>Relay interface modules</b> - 27mm wide - AC or DC coils - Instant ejection of relay using plastic retaining clip - Supply status indication and EMC coil suppression module as standard - Screw and screwless terminals - Mechanical indicator & test button
	7 A	4 CO	
 <b>99 Series</b>			<b>Coil indication and EMC suppression modules</b> Depending on module selected, they can provide; <ul style="list-style-type: none"> <li>- Suppression of coil back emf on switch-off</li> <li>- LED indication to show when the coil is energized.</li> <li>- Protection against reverse polarity applied across the coil terminals.</li> <li>- By-pass of troublesome leakage currents in the coil circuit.</li> </ul>

	Rated current	Function & Features
	19 Series 1 A 5 A 16 A	<p>Status indicating modules Override control modules Analogue Override control module Power relay module</p> <p><b>Override &amp; Status indicating modules</b> - Clear indication of the signal or equipment status - Easy to operate selection switches and potentiometers - Feedback contact; signals when switch is not in "Auto" position - Compact housing: 2 widths, 17.5 or 35 mm</p>
	70 Series 6 A 10 A	<p>Over &amp; Under voltage monitoring Electronic voltage monitoring for single and three-phase Electronic phase loss and rotation monitoring for three-phase Monitoring neutral loss</p> <p><b>Line monitoring relay</b> <span style="color: orange;">NEW</span> - 1 CO relay output, 6 or 10 A - Modular housing, 17.5 or 35 mm wide - 35mm rail (EN 60715) mount</p>
	71 Series 10 A	<p>Over &amp; Under voltage monitoring Voltage or current detecting Phase asymmetry Phase rotation Phase loss Thermistor temperature sensing</p> <p><b>Monitoring relays</b> - 35 and 22.5mm wide - 1 or 3 phase systems - Adjustable or Fixed values - Positive safety logic - 35mm rail (EN 60715) mount</p>
	72 Series 16 A	<p>Level control (Emptying or Filling)</p> <p><b>Monitoring relay</b> - For conductive liquids - Sensitivity fixed or adjustable (5...150kΩ)</p>
	12 A	<p>Special relay for alternating loads, for applications with pumps, compressors, air conditioning or refrigeration units</p> <p><b>Priority change relay</b> - 35mm wide - 110...240 V and 24 V AC/DC supply versions - Multi-function (M1, ME, M2, M1)</p>
	77 Series 5 A	<p>Zero-crossing switch-on Random switch-on</p> <p><b>Modular solid state relay (SSR)</b> - 17.5mm housing - Suggested for lamp load - 35 mm rail (EN 60715) mounting</p>
	78 Series 12 W 36 W 60 W 50 W	<p><span style="color: orange;">NEW</span> <b>Switch mode power supplies</b> - Small dimensions: 17.5 mm (1 module) or 70 mm (4-modules) wide, 60 mm deep - Short circuit protection: hiccup (auto-recovery) mode - High efficiency (up to 91%) - Low (&lt; 0.4 W) stand-by power absorption - 35 mm rail (EN 60715) mounting</p>
	7E Series 25 A 32 A 65 A (up to 1,500 A with CT)	<p>Energy meter</p> <p><b>kWh Energy meter</b> - 1 or 3 phase - Single or Double tariff - Pulse output for remote energy management; - SO interface (open collector) according DIN 43864 - LC-Display and Mechanical Display - 35 mm rail (EN 60715) mount</p>
	7P Series —	<p>SPD Type 1, 2, 3</p> <p><b>Surge protection device (SPD)</b> - Surge arrester suitable for 230 V or 400 V system/applications or for surge arrester for protection on DC (420, 700 and 1,000 V) - Single phase systems or three-phase systems - Replaceable varistor module and encapsulated spark gap module - Visual and remote signalling of varistor status - 35mm rail (EN 60715) mount</p>
	7S Series 6 A	<p><span style="color: orange;">NEW</span> <b>Relay module with forcibly guided contacts</b> - Extended operating range (0.7...1.25) U<sub>N</sub> - For safety applications, with class A forcibly guided contact relays (EN 50205) - For railway applications; materials compliant with fire and smoke characteristics (UNI 11170-3); mechanical and climatic characteristics compliant with EN 61373 and EN 50155 - Coil status visual indication with LED - 35mm rail (EN 60715) mount</p>
	7T Series 10 A	<p><span style="color: orange;">NEW</span> <b>Panel thermostat</b> - Small, compact size - Snap action thermostatic Bimetal sensor - Wide temperature setting range - Long electrical life - 35 mm rail (EN 60715) mount</p>

	Rated current	Function & Features	Sockets
	1 A 16 A	Multi-functions or Mono-functions timer	<p><b>Modular timers</b></p> <ul style="list-style-type: none"> <li>- 17.5mm wide</li> <li>- Six time scale from 0.1s to 24h</li> <li>- Multi-voltage</li> <li>- High input /output isolation</li> <li>- 1 pole</li> <li>- Relay output, 16A</li> <li>- Solid-state output, 1A</li> </ul>
	16 A	Multi-function and multi-voltage timer	<p><b>Modular timers</b></p> <ul style="list-style-type: none"> <li>- 17.5 mm wide</li> <li>- Seven functions (4 with supply start and 3 with signal start with Reset function)</li> <li>- Six time ranges from 0.1s to 10h</li> <li>- 1 pole</li> <li>- 35 mm rail (EN 60715) mounting</li> </ul>
	8 A 10 A 16 A	Multi-functions or Mono-functions timer	<p><b>Modular timers</b></p> <ul style="list-style-type: none"> <li>- 22.5mm wide</li> <li>- Eight time scale from 0.05s to 10 days</li> <li>- Multi-voltage</li> <li>- 1 pole</li> <li>- Special version: 2 timed contacts or 1 timed + 1 instantaneous contact</li> </ul>
	7 A 10 A	Multi-functions timer	<p><b>Miniature plug-in timers</b></p> <ul style="list-style-type: none"> <li>- AC/DC supply non polarized</li> <li>- Seven time scales from 0.05s to 100h</li> <li>- 2, 3 or 4 pole</li> </ul>  <p><b>94 Series</b></p>
	—	Multi-functions or Bi-functions timer	<p><b>Timer modules</b></p> <ul style="list-style-type: none"> <li>- Multi-voltage</li> <li>- Time scale from 0.05s to 100h</li> <li>- Wide supply range in AC or DC coils</li> </ul>  <p><b>90 Series</b> <b>92 Series</b> <b>94 Series</b> <b>95 Series</b> <b>96 Series</b> <b>97 Series</b></p>
	5 A 8 A	Multi-functions timer	<p><b>Plug-in / Front of panel mount timers</b></p> <ul style="list-style-type: none"> <li>- 8 or 11 pin</li> <li>- Time scales from 0.05s to 100h</li> <li>- AC/DC supply</li> <li>- Version available with 2 timed contacts or 1 instantaneous + 1 timed</li> </ul>  <p><b>90 Series</b></p>
	—	Multi-functions	<p><b>Slim timed sockets</b></p> <ul style="list-style-type: none"> <li>- 6.2mm wide</li> <li>- 4 time scales from 0.1s to 6h</li> <li>- AC/DC supply</li> <li>- For use with 34.51 and 34.81 relays</li> </ul>

		Rated current	Function & Features	
	10 Series	12 A 16 A	Light dependent relay	<b>Light dependent relay for pole or wall mounting</b> <ul style="list-style-type: none"> <li>- 1 or 2 contacts</li> <li>- Double break type</li> <li>- Double setting and Double contacts</li> <li>- Protection category IP54</li> </ul>
	11 Series	12 A 16 A	Light dependent relay	<b>Modular Light dependent relay</b> <ul style="list-style-type: none"> <li>- 1 contact</li> <li>- 35 mm wide</li> <li>- 230 VAC, available also with 12 and 24 VAC/DC</li> <li>- 35mm rail (EN 60715) mount</li> </ul>
	12 Series	16 A	Daily time switch Weekly time switch "Astro" time switch	<b>Time switch</b> <ul style="list-style-type: none"> <li>- Mechanical or electronic version</li> <li>- 1 or 2 contacts</li> <li>- 35mm rail (EN 60715) mount</li> </ul>
	13 Series	8 A 10 A 12 A 16 A	Electronic step relay Call & Reset Relay	<b>Electronic step and bistable relay</b> <ul style="list-style-type: none"> <li>- 35 mm rail (EN 60715) mount or panel mount</li> <li>- 1 or 2 contacts</li> <li>- Call relay with reset command</li> <li>- Longer mechanical and electrical life, and much quieter than electromechanical step relays</li> </ul>
	14 Series	16 A	Electronic staircase timers	<b>Modular electronic staircase timers</b> <ul style="list-style-type: none"> <li>- 17.5 mm wide</li> <li>- Multi-functions or Mono-function</li> <li>- Suitable for 3 or 4 wire systems</li> <li>- Version with "Switch-off early warning"</li> </ul>
	15 Series	400 W 500 W	Dimmer	<b>Dimmer for control of lighting levels</b> <ul style="list-style-type: none"> <li>- 35 mm rail (EN 60715) mount or panel mount</li> <li>- "Soft" On and Off transitions</li> <li>- Thermal protection against overload</li> </ul>
	18 Series	10 A	Movement detector	<b>PIR movement detector for internal or external installations - wall or ceiling mount</b> <ul style="list-style-type: none"> <li>- Special version: IP54</li> <li>- Small size</li> <li>- Adjustable ambient light intervention threshold</li> <li>- Adjustable Light On Time</li> </ul>
	20 Series	16 A	Step relay	<b>Modular step relay</b> <ul style="list-style-type: none"> <li>- 17.5 mm wide</li> <li>- AC or DC coils</li> <li>- 1 or 2 contacts</li> <li>- Choice of 6 switching sequences</li> <li>- 35 mm rail (EN 60715) mount</li> </ul>
	22 Series	25 A	Modular contactors	<b>Modular contactors</b> <ul style="list-style-type: none"> <li>- 17.5 and 35 mm wide</li> <li>- AC/DC silent coils</li> <li>- 2 or 4 contacts</li> <li>- 35 mm rail (EN 60715) mount</li> </ul>
	26 Series	10 A	Step relay	<b>Step relay with electrically separate coil and contact circuits</b> <ul style="list-style-type: none"> <li>- Panel mount</li> <li>- AC coils</li> <li>- 1 or 2 contacts</li> <li>- Choice of 6 switching sequences</li> </ul>
	27 Series	10 A	Step relay	<b>Step relay, for electrically common coil and contact circuits</b> <ul style="list-style-type: none"> <li>- Panel mount</li> <li>- AC coils</li> <li>- 1 or 2 contacts</li> <li>- Choice of 3 switching sequences</li> </ul>