AMERICAN ZETTLER, INC.

IT'S A BETTER RELAY





ELECTROMECHANICAL RELAYS

AUTOMOTIVE RELAYS

LATCHING RELAYS

SOLAR RELAYS

DP CONTACTORS

RELAY SELECTOR GUIDE

RELAY SELECTION GUIDE

American Zettler, Inc.

Find complete specifications at www.azettler.com

Revised: 11/12/2015

Selection Guide

Terminal			Coil						Switching Current											
PCB	SMT	QC	DC	AC	Latch	Relay Series	Contact	Page	1A	2A	3A	5A	6A	8A	10A	12A	15A	16A	20A	
■			■			AZ9571	1C	2	■											SIGNAL RELAYS
■			■			AZ957	1C	2	■											
■			■			AZ850	2C	2	■	■										
	■		■		■	AZ851	2C	3	■	■										
	■		■		■	AZ8512	2C	3	■	■										
■			■		■	AZ830	2C	3	■	■										
■			■			AZ954X/Y	2C	3	■	■										
■			■			AZ822	2C	4	■	■										
■			■			AZ8222	2C	4	■	■										
■			■			AZ826	2C	4	■	■										
	■		■		■	AZ8521	2C	5	■	■										
■			■			AZ8462	2C	5	■	■										
■			■		■	AZ832	2C	5	■	■	■									
■			■			AZ921	1A	6	■	■	■	■								MID-RANGE POWER RELAYS
■			■			AZ9201	1A	6	■	■	■	■								
■			■			AZ6951	1A	6	■	■	■	■								
■			■			AZ6991	1A, 1C	7	■	■	■	■	■							
■			■			AZ946	2C	7	■	■	■	■	■							
■			■		■	AZ881	1A,2A,1A+1B	7	■	■	■	■	■	■						
■			■		■	AZ888	1A,2A,1A+1B	7	■	■	■	■	■	■						
■			■			AZ673	1A, 1C	8	■	■	■	■	■	■	■					
■			■			AZ767	1C	8	■	■	■	■	■	■	■					
■			■			AZ6975	1A, 1C	8	■	■	■	■	■	■	■					
■			■			AZ742	2A, 2C	9	■	■	■	■	■	■	■					
■			■	■		AZ743	2A, 2B, 2C	9	■	■	■	■	■	■	■					
■			■			AZ9405	1A, 1C	9	■	■	■	■	■	■	■					
■			■			AZ6962	1C	9	■	■	■	■	■	■	■					
■			■			AZ7671	1A, 1C	10	■	■	■	■	■	■	■					
■			■			AZ7705	1A	10	■	■	■	■	■	■	■					
■			■			AZ7709	1A	10	■	■	■	■	■	■	■					
■			■		■	AZ770	1A, 1C	11	■	■	■	■	■	■	■					
■			■		■	AZ880	1A, 2A, 1A+1B	11	■	■	■	■	■	■	■					
■			■			AZ8A	1A, 1C	11	■	■	■	■	■	■	■					
■			■			AZ9375	1A	11	■	■	■	■	■	■	■					
■			■	■		AZ733	2A, 2C	12	■	■	■	■	■	■	■	■				
■			■			AZ733W/WC	2A, 2C	12	■	■	■	■	■	■	■					
■			■			AZ7335	2A, 2C	12	■	■	■	■	■	■						
■			■	■		AZ761	1A, 1B, 1C	13	■	■	■	■	■	■	■	■				
■			■	■		AZ763	1A, 1C	13	■	■	■	■	■	■	■	■				
■			■			AZ943	1A, 1C	13	■	■	■	■	■	■	■	■	■			
■			■			AZ943S	1A, 1C	13	■	■	■	■	■	■	■	■	■			
■			■			AZ576	1A,1B,1C	14	■	■	■	■	■	■	■	■	■	■		
■			■	■		AZ762	1A,1B,1C	14	■	■	■	■	■	■	■	■	■	■		
■			■			AZ762H	1A,1B,1C	14	■	■	■	■	■	■	■	■	■	■		
■			■			AZ742H	1A, 1C	15	■	■	■	■	■	■	■	■	■	■		
	■		■			AZ932	1A, 1C	15	■	■	■	■	■	■	■	■	■			
■			■			AZ755	1A,1B,1C	15	■	■	■	■	■	■	■	■	■	■	■	
■			■			AZ7555	1A, 1C	15	■	■	■	■	■	■	■	■	■	■	■	
■		■	■			AZ756	1A	16	■	■	■	■	■	■	■	■	■	■	■	
■		■	■			AZ757	1A	16	■	■	■	■	■	■	■	■	■	■	■	
■		■	■			AZ762F	1A, 1B	16	■	■	■	■	■	■	■	■	■	■	■	
■			■			AZ9321	1A, 1C	17	■	■	■	■	■	■	■	■	■	■	■	
■			■			GP10	1A,1B,1C	17	■	■	■	■	■	■	■	■	■	■	■	

Selection Guide

Terminal			Coil						Switching Current	
PCB	SMT	QC	DC	AC	Latch	Relay Series	Contact	Page	5 10 15 20 25 30 40 50 80 100	
■			■			AZ7695	1A	17	25A	HIGH POWER RELAYS
■			■	■		AZ2200	1A,1B,1C	17	30A	
■		■	■	■		AZ2270	1A,1B,1C	18	30A	
		■	■	■		AZ2280	1A,1B,1C	18	30A	
		■	■			AZ2310	1A	18	30A	
		■	■	■		AZ2700	1X, 2X	19	30A	
		■	■	■		AZ2701	1X, 2X	19	30A	
		■	■	■		AZ2702	1X, 2X	19	30A	
		■	■	■		AZ2703	1X, 2X	19	30A	
■			■	■		AZ2704	1X, 2X	20	30A	
		■	■	■		AZ2705	1X, 2X	20	30A	
		■	■	■		AZ2800	2A, 2C	20	30A	
■			■	■		AZ2850	2A, 2C	21	30A	
■			■			AZ2150	1A,1B,1C	21	40A	
■		■	■			AZ2100	1A,1B,1C	21	40A	
■		■	■			AZ2110/AZ2120	1A,1B,1C	21	40A	
■	■		■		■	AZ850/AZ851	2C	22	1A	LATCHING
■	■		■		■	AZ8521	2C	22	2A	
■	■		■		■	AZ852	2C	22	2A	
■			■		■	AZ880	1A,2A,1A+1B	23	10A	
■			■		■	AZ832P	2C	23	3A	
■			■		■	AZ881	1A,2A,1A+1B	23	8A	
■			■		■	AZ888	1A,1C,1A+1B	24	8A	
■			■		■	AZ762P	1A, 1B, 1C	24	20A	
■			■		■	AZ21501P	1A, 1B, 1C	24	50A	
■		■	■		■	AZ2500	1A	25	60A	
■			■		■	AZ2501	1A, 1C	25	50A	
		■	■		■	AZ2505	1A, 1B	25	120A	
■		■	■			AZ420	2C,4C,6C	26	5A	PLUG-IN
■			■	■		AZ164	1C,2C,3C,4C	26	15A	
■			■	■		AZ1641	1C,2C,3C,4C	26	20A	
		■	■	■		AZ165	1C,2C,3C,4C	27	15A	
		■	■	■		AZ1651	1C,2C,3C,4C	27	20A	
		■	■	■		AZ166	1C,2C,3C,4C	27	15A	
		■	■	■		AZ1661	1C,2C,3C,4C	27	20A	
		■	■	■		AZKUP	1C,2C,3C	28	31A	
■			■			AZ733W/WC	2A, 2C	28	10A	SOLAR
		■	■			AZSR126	1A	28	13A	
■			■			AZ2150W	1A	29	30A	
■			■	■		AZ2704	1X, 2X	29	30A	
■			■			AZDC	1A, 1X	29	2500A	
		■	■			AZSR235/AZ250	1A	29	50A	

Selection Guide

Terminal			Coil					
PCB	SMT	QC	DC	AC	Latch	Relay Series	Contact	Page
■			■			AZ934	1C, 2C	30
■			■			AZ935	1C, 2C	30
■			■			AZ9471	1C	30
■			■			AZ975/AZ976	1A,1B,1C	31
		■	■			AZ989	1A, 2C	31
		■	■			AZ987	1A,1C,2A,2C	31
		■	■			AZ992	1A, 1C	31
■			■			AZ977	1A, 1C	32
■			■			AZ984	1A, 1C	32
■			■			AZ9841	1A, 1C	32
■			■			AZ988	1A, 1C	33
		■	■			AZ973	1A,1C	33
		■	■			AZ974	1A, 1C	33
■			■			AZ9731F	1A, 1C	33
		■	■			AZ9731T	1A, 1C	34
■			■			AZ986	1A, 1C	34
■			■			AZ970/AZ971	1A,1B,1C	34
		■	■			AZ9801	1A	35
		■	■			AZ979	1A,1B,1C	35
		■	■			AZ980	1A,1B,1C	35
■			■			AZ983	1A,1B,1C	35
			■			AZPRD	1A,1C,1X,1Y, 2A,2C	36
			■			XMC0	1-3 Poles N.O.	36

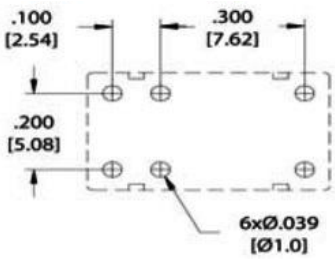
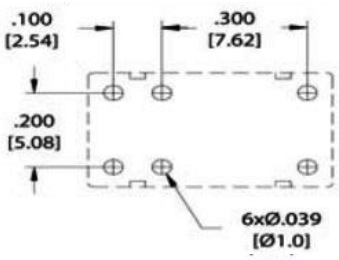
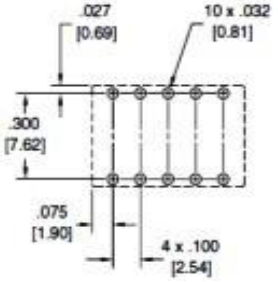
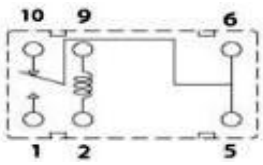
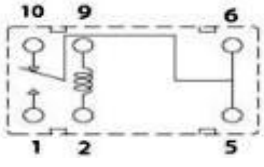
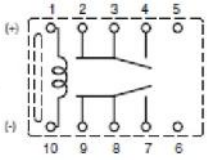
Switching Current

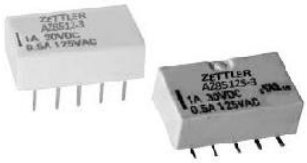
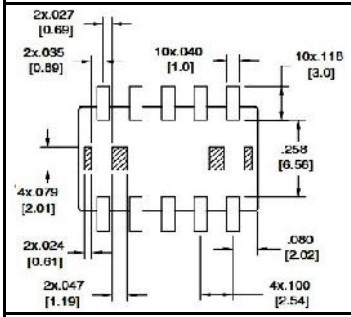
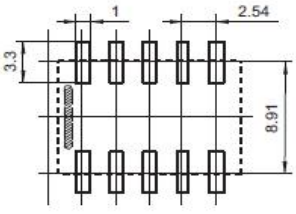
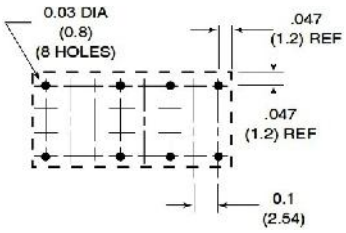
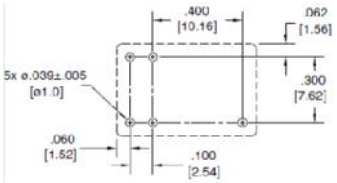
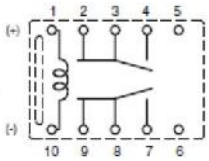
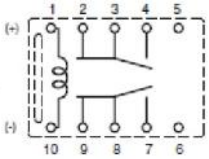
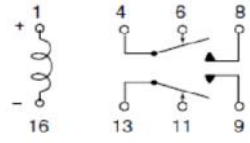
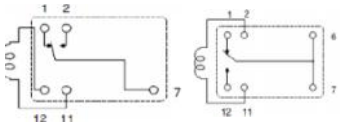
5 10 15 20 25 30 40 50 80 100

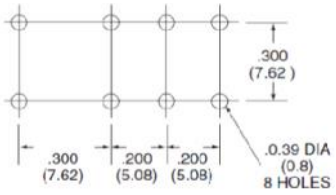
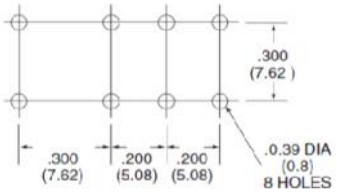
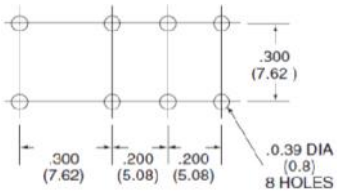
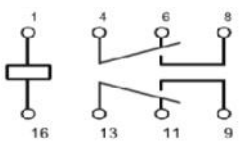
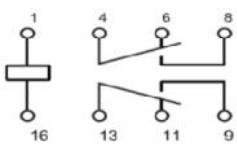
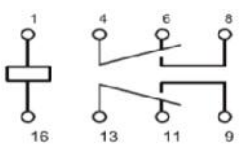
AZ934 25A
AZ935 25A
AZ9471 25A
AZ975/AZ976 60A
AZ989 25A
AZ987 30A
AZ992 100A
AZ977 20A
AZ984 20A
AZ9841 40A
AZ988 30A
AZ973 40A
AZ974 40A
AZ9731F 30A
AZ9731T 50A
AZ986 40A
AZ970/AZ971 45A
AZ9801 70A
AZ979 80A
AZ980 80A
AZ983 80A
AZPRD 50A
XMC0 90 FLA

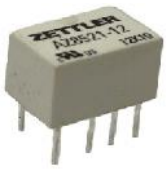
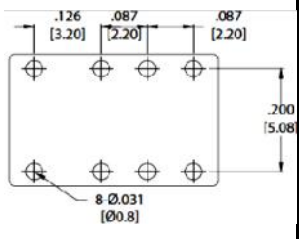
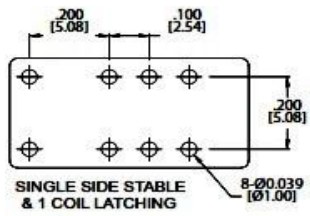
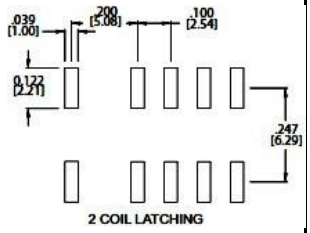
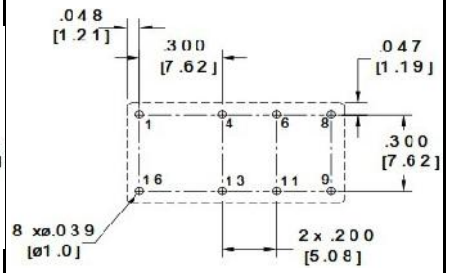
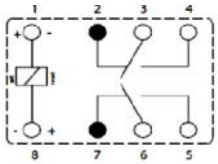
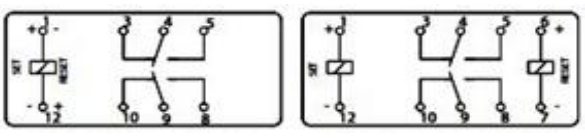
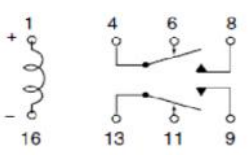
AUTOMOTIVE RELAYS

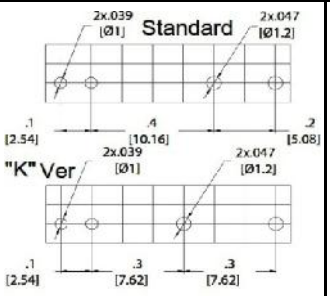
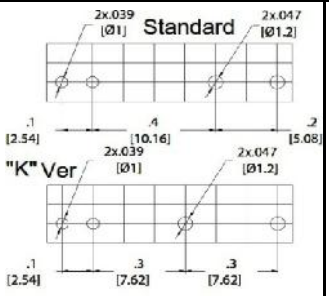
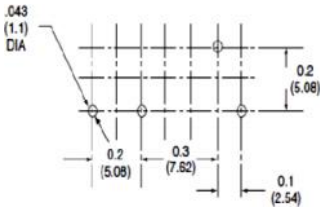
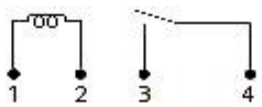
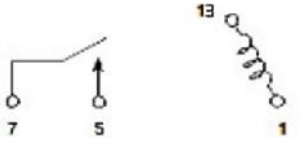
CONTACTORS

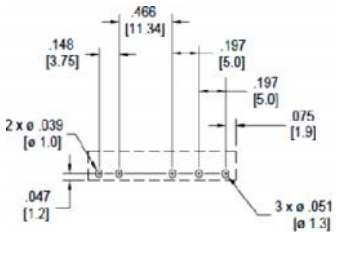
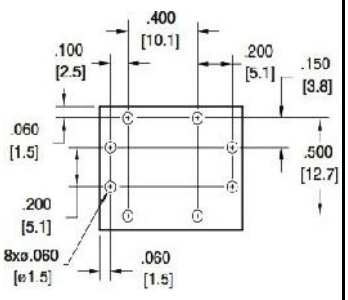
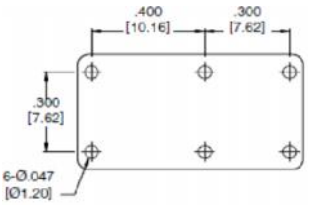
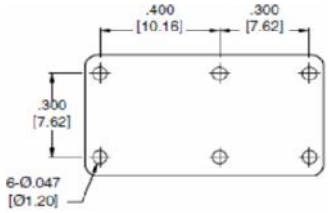
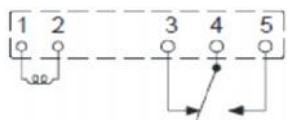
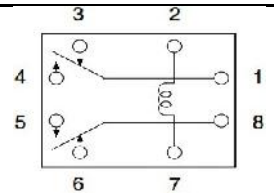
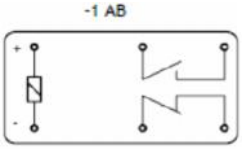
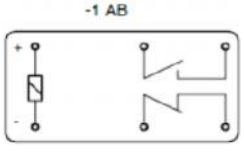
Signal Printed Circuit Board Relays				
SERIES		AZ9571	AZ957	AZ850
				
Dimensions LxWxH mm		12.5 x 7.5 x 10	12.8 x 7.8 x 10.3	14 x 9 x 5
FEATURES		Subminiature size High sensitivity 150mW Meets FCC part 68.302 Meets FCC part 68.304	Subminiature size High sensitivity 150mW Meets FCC part 68.302 Meets FCC part 68.304	Fits 10 pin IC socket Meets FCC part 68.302 Monostable or bistable
Approvals		c UL us	c UL us	c UL us
Contact Arrangement		SPDT	SPDT	DPDT bifurcated
Contact Material		Ag (Au clad)	Ag with Au plating	AgPd (Au clad) AgNi (Au clad)
Max Switching Power		30W / 62.5VA	30W / 62.5VA	60W / 62.5VA
Max Switching Voltage		60 VDC / 125VAC	60 VDC / 125VAC	220VDC / 250VAC
Max Switching Current		1A	1A	2A
Safety Approved Contact Ratings		0.5A@125VAC 1A@30VDC 0.3A@60VDC	0.5A@125VAC 1A@30VDC 0.3A@60VDC	0.5A@125VAC 2A@30VDC
Coil Voltages		DC: 3 ~ 24	DC: 1.5 ~ 24	DC: 3 ~ 24
Nominal Coil Power		0.15W, 0.2W	0.15W, 0.2W	0.1W, 0.14W
Insulation Resistance		100MΩ (at 500VDC)	100MΩ (at 500VDC)	1000MΩ (at 500VDC)
Dielectric Strength	Contact to Coil	1000VAC 1 min	1250VAC 1 min	1000VAC 1 min
	Open Contacts	400VAC 1 min	400VAC 1 min	1000VAC 1 min
Ambient Temperature		-40°C ~ 70°C	-40°C ~ 70°C	-40°C ~ 70°C
Mounting Layout (Bottom View) (mm)				
Wiring Diagram (Bottom View)				

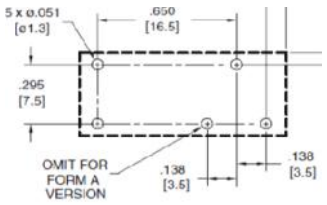
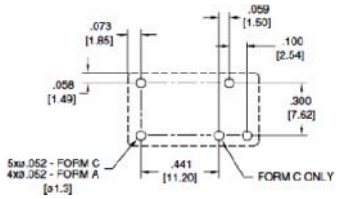
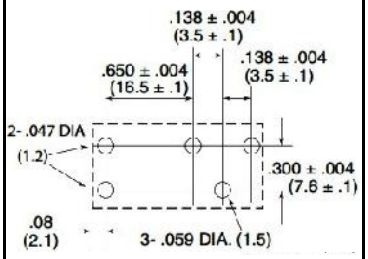
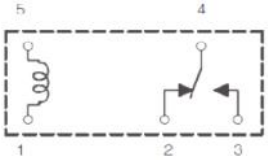
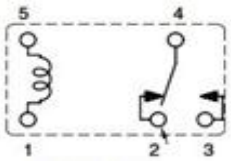
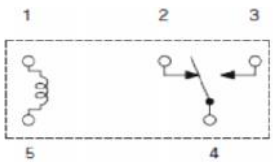
Signal Printed Circuit Board Relays			
AZ851	AZ8512	AZ830	AZ954X/Y
			
14.2 x 9.3 x 6.2	14 x 9 x 5.4	20 x 9.9 x 9.9	15.8 x 10.8 x 11.8
SMT with "L" terminal Meets FCC part 68.302 Monostable or bistable	THT or SMT ("L" terminal) Meets FCC part 68.302 Monostable or bistable	Polarized coil Meets FCC part 68.302 Meets FCC part 68.304 Monostable or bistable	Subminiature size Extremely low cost Sensitivite coil options
c UL us	c UL us	c UL us	c UL us
DPDT bifurcated	DPDT	DPDT bifurcated	SPDT
AgPd (Au clad) AgNi (Au clad)	AgNi with Au plating	Ag Alloy, Au clad	AgNi with Au plating
60W / 62.5VA	30W / 62.5VA	60W / 125VA	30W / 250VA
220VDC / 250VAC	110VDC / 125VAC	250VDC / 300VAC	150VDC / 300VAC
2A	2A	2A	2A
0.5A@125VAC 2A@30VDC	0.5A@125VAC 2A@30VDC	1A@120VAC 2A@30VDC	2A@125VAC 1A@240VAC 1A@30VDC
DC: 3 ~ 48	DC: 1.5 ~ 24	DC: 3 ~ 48	DC: 3 ~ 24
0.14W	0.1W, 0.14W, 0.2W	0.2W, 0.4W	0.2W, 0.45W
1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	100MΩ (at 500VDC)
1000VAC 1 min	1000VAC 1 min	1500VAC 1 min	1250VAC 1 min
1000VAC 1 min	750VAC 1 min	1000VAC 1 min	750VAC 1 min
-40°C ~ 85°C	-40°C ~ 70°C	-40°C ~ 85°C	-25°C ~ 95°C
			
			

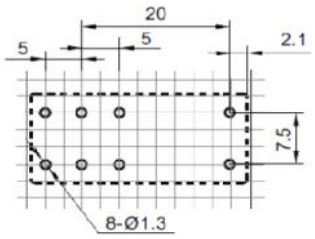
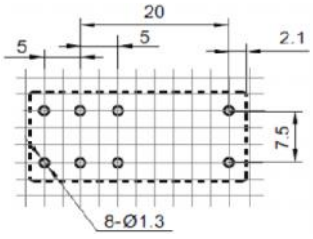
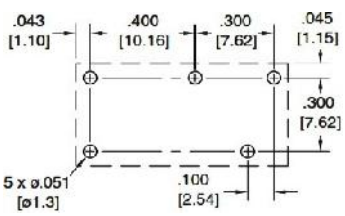
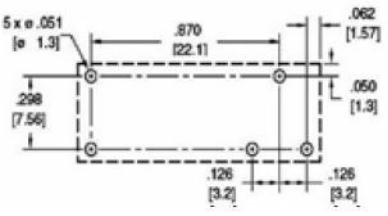
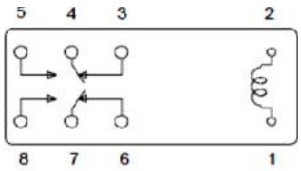
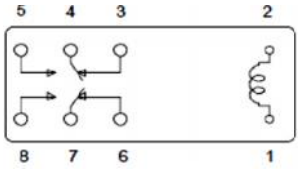
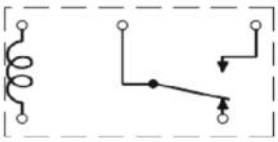
Signal Printed Circuit Board Relays			
SERIES	AZ822	AZ8222	AZ826
			
Dimensions LxWxH mm	20 x 9.8 x 12	20.2 x 10 x 11.5	20.2 x 9.9 x 12
FEATURES	Fits 16 pin IC socket Meets FCC part 68.302 Meets FCC part 68.304	Fits 16 pin IC socket Meets FCC part 68.302 Meets FCC part 68.304 Monostable or bistable	Bifurcated crossbar contacts Ultra-sensitive coil
Approvals	c UL us	c UL us	c UL us
Contact Arrangement	DPDT bifurcated	DPDT bifurcated	DPDT
Contact Material	AgPd (Au clad) AgNi (Au clad)	AgNi with Au plating	Ag (Au clad)
Max Switching Power	60W / 125VA	60W / 125VA	60W / 125VA
Max Switching Voltage	220VDC / 250VAC	120VDC / 240VAC	150VDC / 220VAC
Max Switching Current	2A	2A	2A
Safety Approved Contact Ratings	0.5A@120VAC 1A@24VDC	1A@125VAC 2A@30VDC	0.5A@125VAC 2A@30VDC
Coil Voltages	DC: 3 ~ 48	DC: 3 ~ 48	DC: 3 ~ 48
Nominal Coil Power	0.15W, 0.2W	0.15W, 0.3W	0.15W, 0.2W, 0.36W
Insulation Resistance	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)
Dielectric Strength — Contact to Coil	1000VAC 1 min	1500VAC 1 min	1500VAC 1 min
Dielectric Strength — Open Contacts	1000VAC 1 min	1000VAC 1 min	500VAC 1 min
Ambient Temperature	-55°C ~ 90°C	-40°C ~ 85°C	-40°C ~ 85°C
Mounting Layout (Bottom View) (mm)			
Wiring Diagram (Bottom View)			

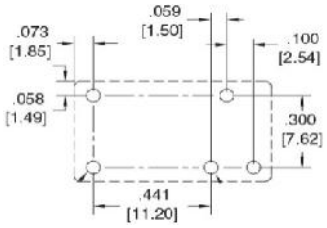
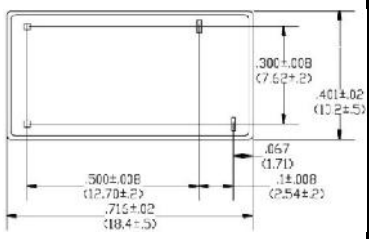
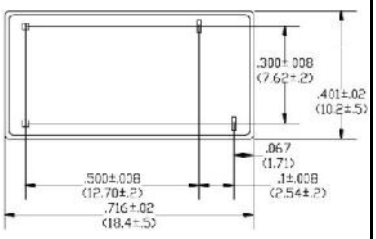
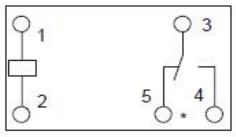
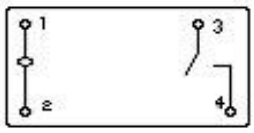
Signal Printed Circuit Board Relays		
AZ8521	AZ8462	AZ832
		
10 x 6.5 x 5.4	15.2 x 7.7 x 9.2	20.2 x 10.2 x 10.7
Surge voltage up to 2.5kV SMT and DIP types available Low power consumption Monostable or bistable	Meets EN60950/EN41003 Surge voltage to 2.5kV Meets FCC Part 68 and Telecordia Thru-hole or SMT	Fits 16 pin IC socket Meets FCC part 68.302 Meets FCC part 68.304 Monostable or bistable
c UL us	c UL us	c UL us
DPDT	DPDT bifurcated	DPDT bifurcated
Ag alloy (Au clad)	AgNi with Au plating	Ag with Au plating
60W / 62.5VA	60W / 62.5VA	60W / 250VA
220VDC / 250VAC	220VDC / 250VAC	250VDC / 250VAC
2A	2A	3A
0.5A@125VAC 2A@30VDC 0.5A@125VDC	0.5A@125VAC 2A@30VDC	2A@125VAC 2A@30VDC
DC: 1.5 ~ 24	DC: 1.5 ~ 48	DC: 3 ~ 48
0.1W, 0.14W	0.1W, 0.14W, 0.2W	0.15W - 0.7W
1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)
1600VAC 1 min	1500VAC 1 min	1500VAC 1 min
1000VAC 1 min	1000VAC 1 min	1000VAC 1 min
-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C
	 	
		

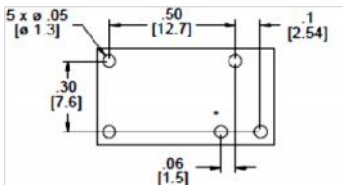
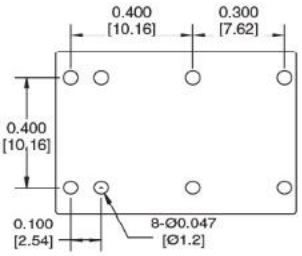
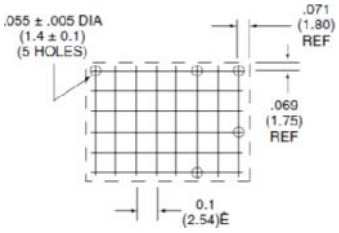
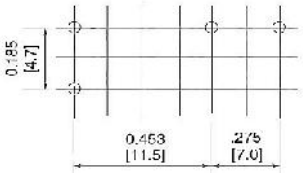
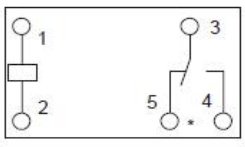
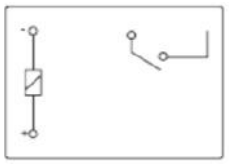
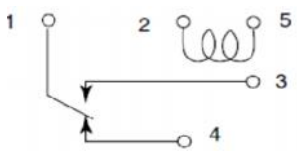
Mid Power relays				
SERIES		AZ921	AZ9201	AZ6951
				
Dimensions LxWxH mm		20.3 x 5.3 x 12.8	20.3 x 5.3 x 12.8	17.5 x 6.4 x 12.4
FEATURES		0.16 sq inch of PCB area 5.3mm wide SIP package 3kVrms contact / coil	High sensitivity Slim SIP package 2kVrms contact / coil	0.18 sq. in of PCB Only 6.40mm wide Dielectric strength 3kVrms
Approvals		c UL us	c UL us	c UL us
Contact Arrangement		SPST-NO	SPST-NO	SPST-NO
Contact Material		AgNi, $AgSnO_2$, Au available	Ag alloy with Au clad	$AgSnO_2$ with Au plating
Max Switching Power		150W / 1250VA	150W / 1250VA	150W / 1250VA
Max Switching Voltage		150VDC / 250VAC	110VDC / 250VAC	30VDC / 250VAC
Max Switching Current		5A	5A	5A
Safety Approved Contact Ratings		5A@250VAC 5A@30VDC	5A@250VAC 5A@30VDC	5A@250VAC 5A@30VDC
Coil Voltages		DC: 5 ~ 24	DC: 5 ~ 24	DC: 5 ~ 24
Nominal Coil Power		0.12W	0.12W	0.2W
Insulation Resistance		1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)
Dielectric Strength	Contact to Coil	3000VAC 1 min	2000VAC 1 min	3000VAC 1 min
	Open Contacts	1000VAC 1 min	1000VAC 1 min	750VAC 1 min
Ambient Temperature		-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 70°C
Mounting Layout (Bottom View) (mm)				
Wiring Diagram (Bottom View)				

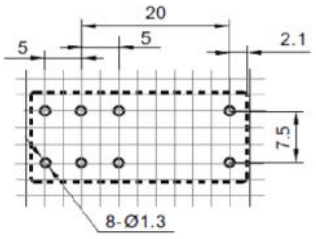
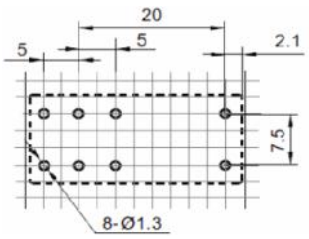
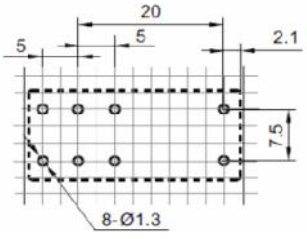
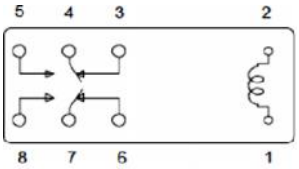
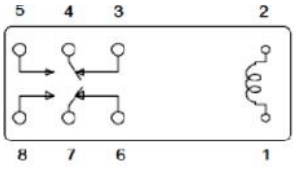
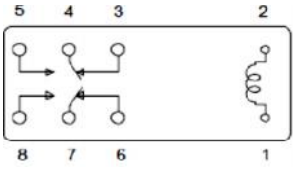
Mid Power relays			
AZ6991	AZ946	AZ881	AZ888
			
28 x 5 x 15	21.7 x 16 x 16.5	20.2 x 11 x 10	20.2 x 11.3 x 11.5
0.22 sq inch of PCB area Only 5mm wide High sensitivity 4kVrms dielectric Isolation >8mm	Sub miniature size 2 form C arrangement Contacts rated 6A	Dielectric strength 3kVrms Single / dual coil latching Class F insulation avail.	Dielectric strength 3kVrms Single / dual coil latching Class F coil avail.
c UL us VDE	c UL us	c UL us	c UL us
SPST-NO, SPDT	DPDT	SPST-NO, DPST-NO or NC	SPST-NO, DPST-NO or NC
AgNi, AgSn, Au plating available	$AgCdO_2$ with Au plating	AgNi, Au plating available	AgSnO (Au plating optional)
180W / 1662VA	180W / 1385VA	150W / 2000VA	150W / 2000VA
150VDC / 400VAC	150VDC / 300VAC	150VDC / 380VAC	240VDC / 380VAC
6A	6A	8A	8A
8A@277VAC 6A@30VDC R300, B300 Pilot duty	5A@277VAC 6A@125VAC 5A@30VDC	8A@250VAC 5A@30VDC 1/6HP@250VAC	SPST: 8A@125/250VAC/30VDC DPST: 5A@125/250VAC/30VDC DPST (1A+1B): 5A@125/250VAC/30VDC All: B300; R150 Pilot Duty
DC: 3 ~ 60	DC: 3 ~ 48	DC: 3 ~ 24	DC: 3 ~ 24
0.17W	0.6W	0.15W, 0.3W	0.15W, 0.3W
100MΩ (at 500VDC)	100MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)
4000VAC 1 min	1000VAC 1 min	3000VAC 1 min	3000VAC 1 min
1000VAC 1 min	750VAC 1 min	1000VAC 1 min	1000VAC 1 min
-40°C ~ 85°C	-40°C ~ 70°C	-40°C ~ 70°C	-40°C ~ 85°C
			
			

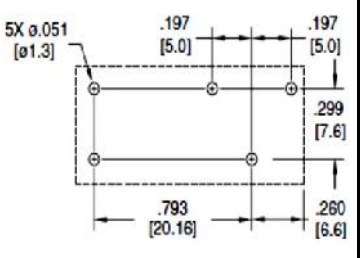
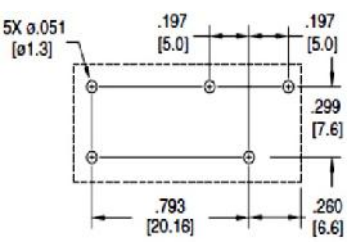
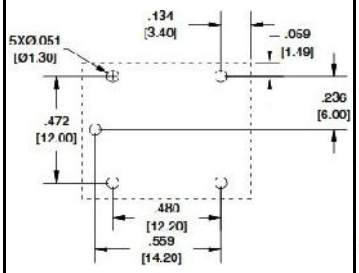
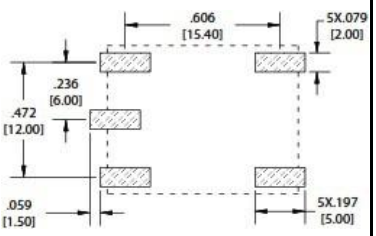
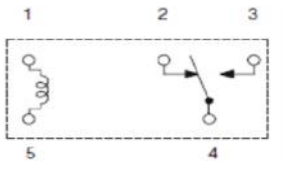
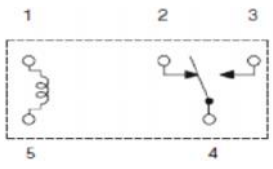
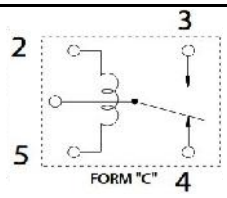
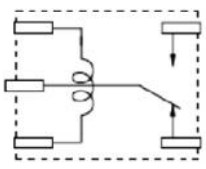
Mid Power relays				
SERIES		AZ673	AZ767	AZ6975
				
Dimensions LxWxH mm		24.5 x 10.5 x 25	18.8 x 10.6 x 15.6	29 x 13 x 25.9
FEATURES		Dense PCB layout Withstands surges ≥10kV	Small footprint Low cost 10A switching	Dielectric strength 5kVrms Isolation spacing >8mm Class F insulation avail.
Approvals		c UL us TUV	c UL us	c UL us TUV
Contact Arrangement		SPST-NO, SPDT	SPDT	SPST-NO, SPDT
Contact Material		$AgCdO_2$, $AgSnO_2$	$AgCdO_2$, AgNi	$AgSnO_2$, Au plating available
Max Switching Power		300W / 2500VA	150W / 1250VA	300W / 2500VAC
Max Switching Voltage		150VDC / 250VAC	150VDC / 380VAC	30VDC / 250VAC
Max Switching Current		10A	10A	10A
Safety Approved Contact Ratings		10A@250VAC 10A@30VDC 1/8HP@125VAC 1/4HP@250VAC TV-5@125VAC (SPST-NO)	10A@125VAC 5A@30VDC 300W@120VAC Tungsten 1/10HP@125VAC 1/16HP@250VAC	10A@250VAC 10A@30VDC
Coil Voltages		DC: 5 ~ 48	DC: 3 ~ 48	DC: 3 ~ 48
Nominal Coil Power		0.25W, 0.53W	0.2W, 0.45W	0.53W, 0.7W
Insulation Resistance		100MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)
Dielectric Strength	Contact to Coil	4000VAC 1 min	2500VAC 1 min	5000VAC 1 min
	Open Contacts	1000VAC 1 min	1000VAC 1 min	1000VAC 1 min
Ambient Temperature		-40°C ~ 80°C	-40°C ~ 105°C	-40°C ~ 110°C
Mounting Layout (Bottom View) (mm)				
Wiring Diagram (Bottom View)				

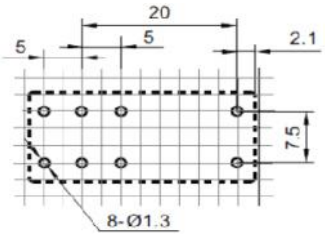
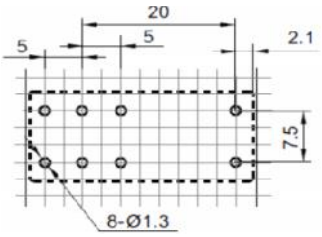
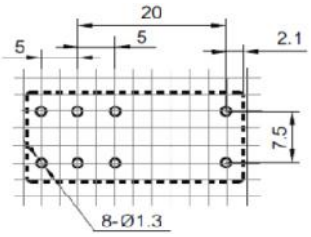
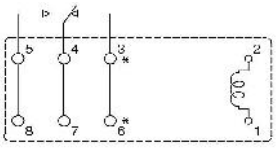
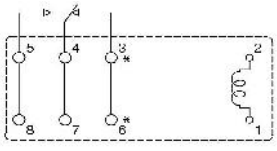
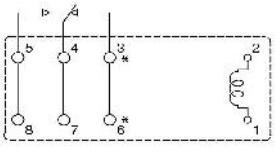
Mid Power relays			
AZ742	AZ743	AZ9405	AZ6962
			
29 x 12.7 x 15.7	29.5 x 13.2 x 16.2	19.8 x 9.9 x 15.2	28.5 x 10.1 x 12.5
(PTI/CTI) 250 Dielectric strength 5kVrms Low height: 15.7mm AC and DC coils Isolation spacing >10mm	Dielectric strength 5kVrms 10A switching each pole Isolation spacing >10mm AC and DC coils Class F insulation avail.	Dielectric strength 4kVrms 10A switching Class F insulation avail.	High sensitivity, 0.23W Dielectric strength 5kVrms Proof tracking index (PTI/CTI) 250
c UL us VDE	c UL us VDE	c UL us TUV	c UL us VDE
DPST-NO, DPDT	DPST-NO or NC, DPDT	SPST-NO, SPDT	SPDT
AgNi, $AgSnO_2$, Au plating available	$AgCdO_2$, $AgSnO_2$, AgNi	$AgSnO_2$	$AgSnO_2$, Au plating available
2 x 240W / 2000VA	240W / 2500VA	150W / 1400VA	240W / 2500VA
300VDC /400VAC	150VDC / 400VAC	30VDC / 277VAC	240VDC / 440VAC
2 x 10A	10A	10A	10A
10A@250VAC 8A@250VAC	10A@250VAC 8A@277VAC 1/2HP@250VAC (NO) 1/4HP@125VAC	10A@125VAC 5A@277VAC 5A@30VDC 1/10HP@125/250VAC	10A@250VAC 10A@30VDC
DC: 3 ~ 110, AC: 12 ~ 240	DC: 5 ~ 110, AC: 24 ~ 230	DC: 3 ~ 48	DC: 5 ~ 60
0.4W, 0.75VA	0.4W, 0.43VA	0.20W, 0.40W	0.23W
10^5MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)
5000VAC 1 min	5000VAC 1 min	4000VAC 1 min	5000VAC 1 min
1000VAC 1 min	1000VAC 1 min	1000VAC 1 min	1000VAC 1 min
-40°C ~ 85°C	-40°C ~ 100°C	-40°C ~ 85°C	-40°C ~ 85°C
			
			

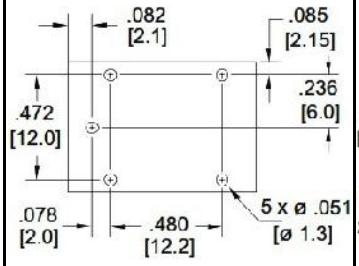
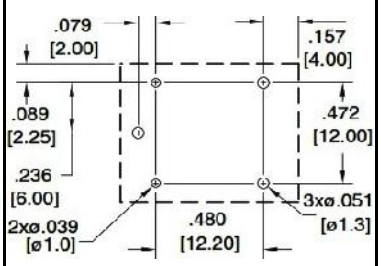
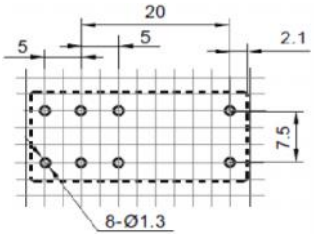
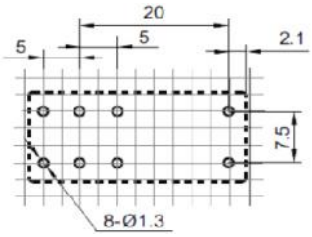
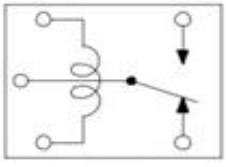
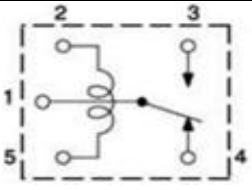
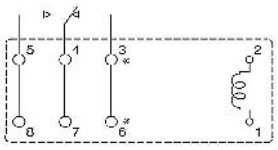
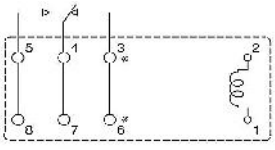
Mid Power relays			
SERIES	AZ7671	AZ7705	AZ7709
			
Dimensions LxWxH mm	18.8 x 10.6 x 15.6	18.2 x 10.2 x 14.7	18.4 x 10.2 x 15.2
FEATURES	Small footprint Low cost 10A switching	Dielectric strength 4kVrms 10kVrms surge withstand Small footprint 10A switching Class F insulation avail.	Dielectric strength 4kVrms Multiple contact types Standard and senstive coils Small footprint 10A switching
Approvals	c UL us	c UL us	c UL us
Contact Arrangement	SPST-NO, SPDT	SPST-NO	SPST-NO
Contact Material	$AgCdO_2$	Ag alloy, $AgCdO_2$	AgCdO, AgSnO2, Ag alloy
Max Switching Power	150W / 1250VA	150W / 1250VA	150W / 1250VA, 300W / 2500VA
Max Switching Voltage	30VDC /277VAC	30VDC / 265VAC	30VDC / 250VAC
Max Switching Current	10A	10A	10A
Safety Approved Contact Ratings	10A@125VAC 5A@28VDC 1/4HP@120/240/277VAC TV-5@120VAC C150@120VAC	10A@250VAC 10A@30VDC 1/6HP@125/250VAC	Std: 5A@250VAC/30VDC 1/6HP@125/250VAC T: 10A@250VAC/30VDC 1/6HP@125/250VAC
Coil Voltages	DC: 3 ~ 24	DC: 3 ~ 48	DC: 3 ~ 24
Nominal Coil Power	0.45W	0.20W, 0.45W	0.20W, 0.45W
Insulation Resistance	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)
Dielectric Strength — Contact to Coil	4000VAC 1 min	4000VAC 1 min	4000VAC 1 min
Dielectric Strength — Open Contacts	1000VAC 1 min	750VAC 1 min	1000VAC 1 min
Ambient Temperature	-40°C ~ 70°C	-30°C ~ 105°C	-30°C ~ 80°C
Mounting Layout (Bottom View) (mm)			
Wiring Diagram (Bottom View)			

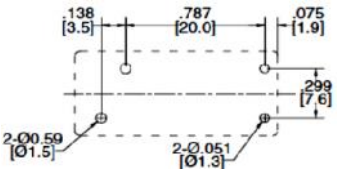
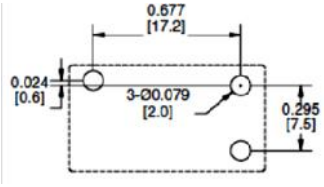
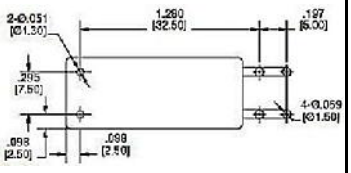
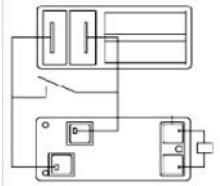
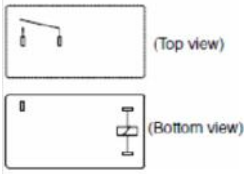
Mid Power relays			
AZ770	AZ880	AZ8A	AZ9375
			
17.9 x 10.4 x 12.6	20 x 15 x 10.2	21.3 x 16.2 x 14.4	20.4 x 7 x 15
Dielectric strength 5kVrms 8mm creepage / clearance 10A switching / 20A inrush Class F insulation standard	Dielectric strength 4kVrms Single and dual latching 10A switching	Subminiature size Epoxy sealed High sensitivity	Dielectric strength 4kVrms Extremely small footprint Thin profile (7mm) Class F Insulation avail.
c UL us VDE	c UL us	c UL us	c UL us TUV
SPST-NO, SPDT	SPST-NO, DPST-NO or NC	SPST-NO, SPDT	SPST-NO
AgNi, $AgSnO_2$, Au available	AgNi, $AgSnO_2$, Au available	Ag alloy	AgNi
150W / 1250VA	300W / 2500VA	300W / 2400VA	150W / 1250VA
30VDC / 250VAC	150VDC / 380VAC	150VDC / 300VAC	30VDC / 277VAC
10A	10A	10A	10A
10A@250VAC 15A@120VAC 1/8HP@125/250VAC TV-2@120VAC	10A@250VAC 8A@30VDC 1/3HP@250VAC 1/4HP@125VAC B300 Pilot duty	10A@240VAC 6A@300VAC 6A@30VDC	10A@125VAC 10A@30VDC 5A@250VAC 1/10HP@250VAC
DC: 3 ~ 48	DC: 3 ~ 24	DC: 5 ~ 48	DC: 3 ~ 24
0.20W, 0.24W, 0.45W	0.20W, 0.28W	0.33W, 0.45W	0.20W
1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)
5000VAC 1 min	4000VAC 1 min	2500VAC 1 min	4000VAC 1 min
1000VAC 1 min	1000VAC 1 min	750VAC 1 min	750VAC 1 min
-40°C ~ 85°C	-40°C ~ 70°C	-55°C ~ 115°C	-40°C ~ 90°C
			
			

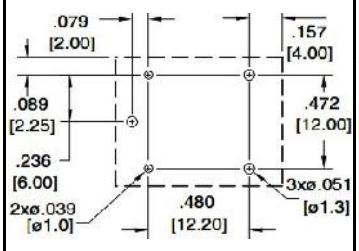
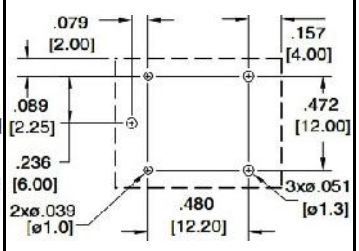
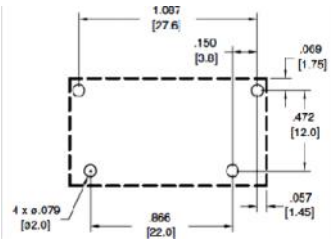
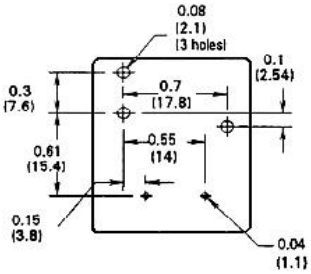
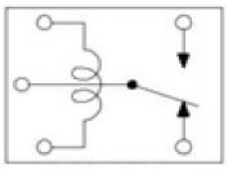
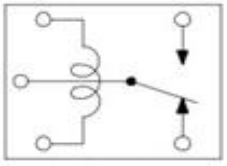
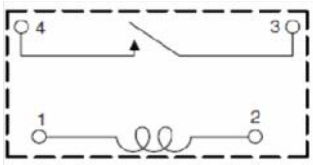
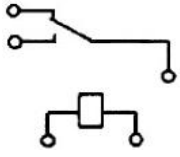
Mid Power relays				
SERIES		AZ733	AZ733W / AZ733WC	AZ7335
				
Dimensions LxWxH mm		29 x 13 x 25.9	29.0 x 13 x 25.9	29.2 x 12.8 x 20.6
FEATURES		Dielectric strength 5kVrms 12A switching Isolation spacing >8mm	Dielectric strength 5kVrms Wide gap: 1.5mm or 2mm 10A switching Class F insulation avail.	Low cost Dielectric strength 5kVrms Standard / senstive coils 10kVrms surge withstand Class F insulation avail.
Approvals		c UL us TUV	c UL us TUV	c UL us TUV
Contact Arrangement		DPST-NO, DPDT	DPST-NO, DPDT	DPST-NO, DPDT
Contact Material		AgCdO, $AgSnO_2$, AgNi, Au plating avaliable	AgCdO, $AgSnO_2$, AgNi, Au avaliable	$AgSnO_2$
Max Switching Power		300W / 2500VA	300W / 2500VA	240W / 2400VA
Max Switching Voltage		150VDC / 380VAC	150VDC / 400VAC	30VDC / 250VAC
Max Switching Current		12A	10A	8A
Safety Approved Contact Ratings		12A@277VAC 10A@30VDC 1/4HP@240VAC 1/8HP@120VAC TV-3@125VAC	10A@250VAC/30VDC 10A@250VAC gen use TV-3@125VAC	8A@250VAC/30VDC (NO) 4A@250VAC/30VDC (NC) TUV: 16A (NO) / 8A (NC) 250VAC / 30VDC
Coil Voltages		DC: 3 ~ 110	DC: 3 ~ 60	DC: 3 ~ 48
Nominal Coil Power		0.53W	0.80W	0.53W, 0.7W
Insulation Resistance		1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)
Dielectric Strength	Contact to Coil	5000VAC 1 min	5000VAC 1 min	5000VAC 1 min
	Open Contacts	1000VAC 1 min	1000VAC 1 min	1000VAC 1 min
Ambient Temperature		-40°C ~ 90°C	-40°C ~ 80°C	-40°C ~ 85°C
Mounting Layout (Bottom View) (mm)				
Wiring Diagram (Bottom View)				

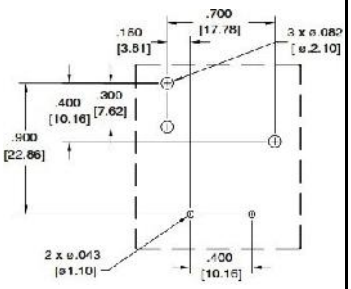
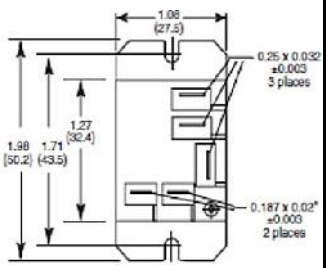
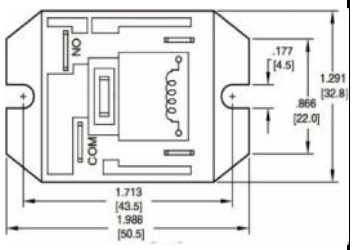
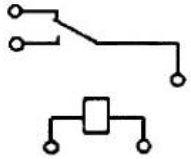
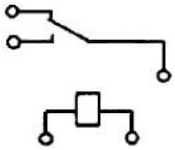
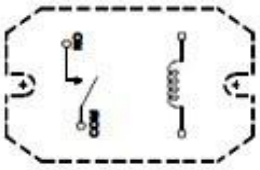
Mid Power relays			
AZ761	AZ763	AZ943	AZ943S
			
29.5 x 13.2 x 16.2	29 x 15.7 x 12.7	19.3 x 15.5 x 16	19.3 x 15.8 x 15.3
Dielectric strength 5kVrms Standard / senstive coils 12A switching Class F insulation avail. 3.5mm or 5.0mm pins	Dielectric strength 5kVrms 12A switching AC and DC coils	Low profile package 15A switching Class F insulation avail.	SMT package 15A switching Class F insulation avail.
c UL us VDE	c UL us VDE	c UL us TUV	c UL us TUV
SPST-NO or NC, SPDT	SPST-NO, SPDT	SPST-NO, SPDT	SPST-NO, SPDT
AgCdO, $AgSnO_2$, AgNi, Au plating avaliable	AgNi, Au plating available	$AgSnO_2$, Au available	$AgSnO_2$, Au available
360W / 3324VA	360W / 3000VA	210W / 2770VA	210W / 2770VA
150VDC / 400VAC	300VDC / 400VAC	30VDC / 300VAC	30VDC / 300VAC
12A	12A	15A	15A
12A@277VAC 1/2HP@250VAC 1/2HP@120VAC 1/3HP@125VAC R300, B300 Pilot duty	12A@250VAC	15A@125VAC 10A@277VAC TV-5 1/2HP@125VAC	15A@125VAC 10A@277VAC TV-5 1/2HP@125VAC
DC: 5 ~ 110, AC: 24 ~ 240	DC: 3 ~ 110, AC: 12 ~ 240	DC: 5 ~ 48	DC: 5 ~ 48
0.25W, 0.40W / 0.75VA	0.40W / 0.75VA	0.36W	0.36W
1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	100MΩ (at 500VDC)	100MΩ (at 500VDC)
5000VAC 1 min	5000VAC 1 min	1500VAC 1 min	1500VAC 1 min
1000VAC 1 min	1000VAC 1 min	1000VAC 1 min	1000VAC 1 min
-40°C ~ 105°C	-40°C ~ 90°C	-40°C ~ 110°C	-40°C ~ 110°C
			
			

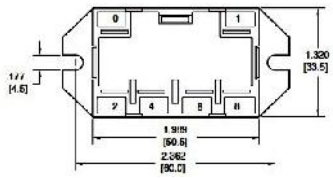
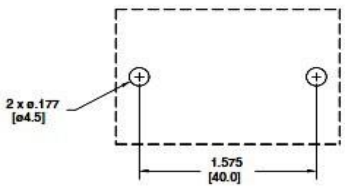
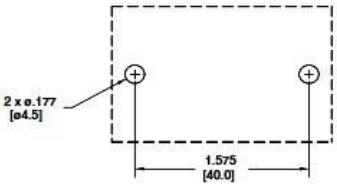
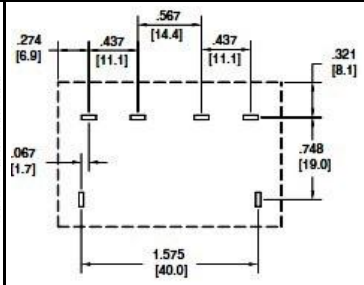
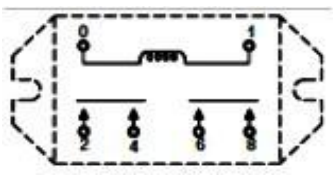
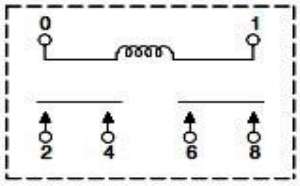
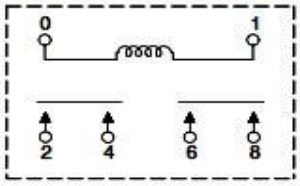
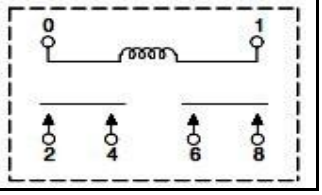
Mid Power relays				
SERIES		AZ576	AZ762	AZ762H
				
Dimensions LxWxH mm		29.5 x 13.2 x 16.2	29.5 x 13.2 x 16.2	29 x 12.7 x 15.7
FEATURES		20A switching, 50K cycles High inrush to 120A 105°C operating temp. Class F insulation std.	Dielectric strength 5kVrms AC and DC coils High inrush to 80A Isolation spacing >10mm	105°C operating temp. Dielectric strength 5kVrms DC coil only Isolation spacing >10mm
Approvals		c UL us TUV	c UL us VDE	c UL us VDE
Contact Arrangement		SPST-NO or NC, SPDT	SPST-NO or NC, SPDT	SPST-NO or NC, SPDT
Contact Material		Ag alloy	AgCdO, $AgSnO_2$, AgNi, Au	AgNi, Au
Max Switching Power		510W / 5540VA	480W / 4432VA	4000VA
Max Switching Voltage		30VDC / 277VAC	150VDC / 400VAC	125VDC / 440VAC
Max Switching Current		20A	16A	16A
Safety Approved Contact Ratings		20A@277VAC 17A@277VAC/30VDC 1HP@120/240/480VAC 5A@120/277VAC pilot duty 16A@240VAC gen purpose	16A@277VAC 1HP@250VAC 1/2HP@125VAC TV-5@125VAC	16A@277VAC
Coil Voltages		DC: 5 ~ 110	DC: 5 ~ 110, AC: 24 ~ 230	DC: 5 ~ 60
Nominal Coil Power		0.40W	0.40W / 0.75VA	0.25W, 0.40W
Insulation Resistance		1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)
Dielectric Strength	Contact to Coil	5000VAC 1 min	5000VAC 1 min	5000VAC 1 min
	Open Contacts	1000VAC 1 min	1000VAC 1 min	1000VAC 1 min
Ambient Temperature		-40°C ~ 105°C	-40°C ~ 100°C	-40°C ~ 105°C
Mounting Layout (Bottom View) (mm)				
Wiring Diagram (Bottom View)				

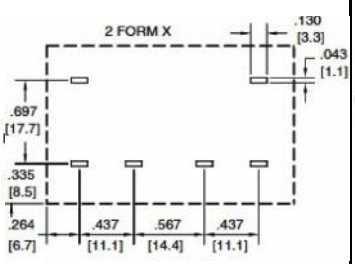
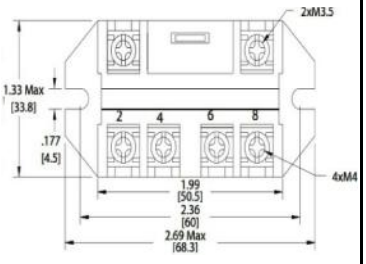
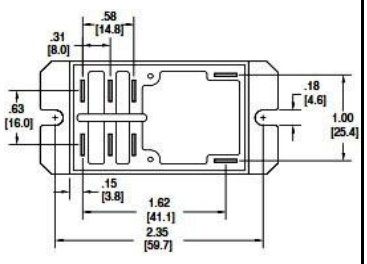
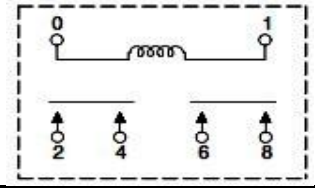
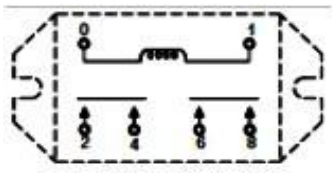
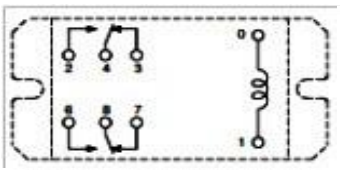
Mid Power relays			
AZ942H	AZ932	AZ755	AZ7555
			
22 X 16.3 X 16.5	20.2 x 16.5 x 20.2	29 x 13 x 26.8	29.2 x 12.8 x 20.6
16A ratings @ 85°C IEEE 587 6kV surge	Ideal for photocontrols Meets ANSI C136.10 1000W Tungsten capable NC contact ballast ratings Class F insulation avail.	Dielectric strength 5kVrms Isolation spacing >8mm Class F insulation avail.	Super sensitive 120mW coil 20A switching Dielectric strength 5kVrms Isolation spacing >5mm Class F insulation avail.
c UL us VDE	c UL us	c UL us TUV	c UL us TUV
SPST-NO, SPDT	SPST-NO, -NC, SPDT	SPST-NO or NC, SPDT	SPST-NO, SPDT
AgCdO, $AgSnO_2$	$AgSnO_2$ (Au plating optional)	AgCdO, $AgSnO_2$	$AgSnO_2$
280W / 4000VA	210W / 2400VA	480W / 5540VA	480W / 4000VA
150VDC / 300VAC	30VDC / 300VAC	150VDC / 380VAC	30VDC / 250VAC
16A	15A AC, 7A DC	20A	20A
16A@250VAC 10A@277VAC 1/2HP@125/250VAC	SPST-NO: 15A@125VAC SPST-NC: 1000VA ballast 8A@120VAC/3A@277VAC EB 1800VA MB (120/277VAC) SPDT: 10A@120VAC	20A@277VAC 20A@24VDC 1HP@240VAC TV-8@120VAC	Std/sens: 20A@125/250VAC 1/6HP@250VAC Sup Sens: 15A@277VAC/30VDC 480VA@277VAC pilot/std ballast 600W@120VAC Tungsten
DC: 3 ~ 48	DC: 3 ~ 48	DC: 5 ~ 110	DC: 3 ~ 110
0.36W	0.36W	0.52W	0.12W, 0.53W, 0.72W
100MΩ (at 500VDC)	100MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)
3000VAC 1 min	1500VAC 1 min	5000VAC 1 min	5000VAC 1 min
1000VAC 1 min	932	1000VAC 1 min	1000VAC 1 min
-40°C ~ 85°C	-40°C ~ 80°C	-40°C ~ 90°C	-40°C ~ 110°C
			
			

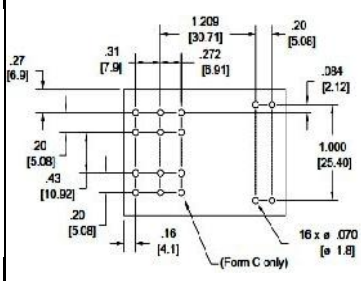
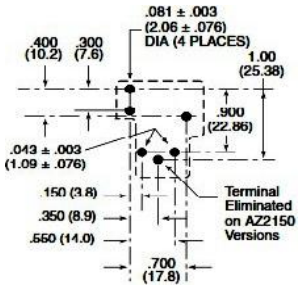
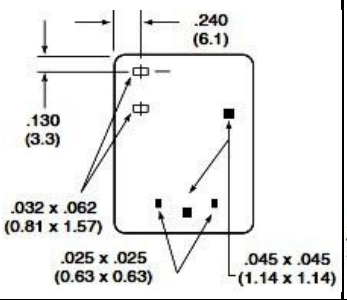
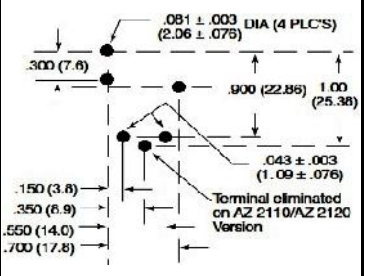
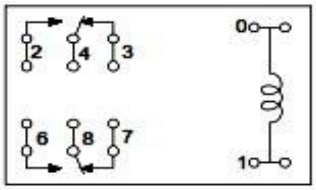
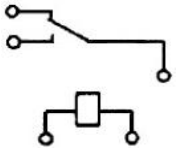
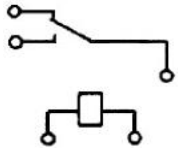
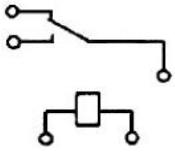
Mid Power relays				
SERIES		AZ756	AZ757	AZ762F
				
Dimensions LxWxH mm		29.4 x 13 x 24.6	22.8 x 12.3 x 24.4	29 x 13 x 16
FEATURES		Dielectric strength 5kVrms Isolation spacing >8mm	Dielectric strength 5kVrms 10kV surge	Dielectric strength 5kVrms 10kV surge High temperature 125°C
Approvals		c UL us TUV	c UL us	c UL us VDE
Contact Arrangement		SPST-NO	SPST-NO	SPST-NO or NC
Contact Material		$AgSnO_2$	$AgSnO_2$	AgNi, Au available
Max Switching Power		480W / 4000VA	480W / 5000VA	600W / 5540VA
Max Switching Voltage		150VDC / 277VAC	150VDC / 400VAC	150VDC / 440VAC
Max Switching Current		20A	20A	20A
Safety Approved Contact Ratings		20A@125VAC 16A@250VAC 16A@30VDC	20A@250VAC 16A@30VDC 1.5HP@250VAC	20A@277VAC 12A@400VAC
Coil Voltages		DC: 5 ~ 48	DC: 5 ~ 24	DC: 5 ~ 60
Nominal Coil Power		0.53W	0.50W	0.40W
Insulation Resistance		1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)
Dielectric Strength	Contact to Coil	5000VAC 1 min	5000VAC 1 min	5000VAC 1 min
	Open Contacts	1000VAC 1 min	1000VAC 1 min	1000VAC 1 min
Ambient Temperature		-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 125°C
Mounting Layout (Bottom View) (mm)				
Wiring Diagram (Bottom View)				

Mid Power relays		High Power relays	
AZ9321	GP10	AZ7695	AZ2200
			
21 x 16 x 20.3	19.5 x 16 x 17.1	30.1 x 15.7 x 23.3	32.4 x 27.5 x 27.8
High inrush design 20A contact rating IEEE 587 6kV surge Class F insulation avail.	20A contact rating TV-8 rating	80A inrush current QC and PCB terminals Class F insulation avail.	Forms A, B or C available AC and DC coils available Class F insulation std.
c UL us TUV	c UL us	c UL us TUV	c UL us VDE
SPST-NO, SPDT	SPST-NO or NC, SPDT	SPST-NO	SPST-NO or NC, SPDT
$AgSnO_2$, AgNi, Au available	$AgSnO_2$	$AgSnO_2$	AgCdO, $AgSnO_2$
480W / 4709VA	3840VA	6250VA	840W / 8310VA
30VDC / 277VAC	250VAC	30VDC / 250VAC	28VDC / 277VAC
20A	20A	25A	30A
20A@125VAC 17A@277VAC 1HP@250VAC TV-8@125VAC	20A@125VAC 16A@277VAC 1HP@250VAC TV-8@125VAC	25A@250VAC 2HP@250VAC 25A@30VDC	30A@277VAC 2HP@250VAC 1HP@125VAC 20/60 (FLA/LRA)@277VAC
DC: 5 ~ 48	DC: 3 ~ 48	DC: 5 ~ 48	DC: 5 ~ 48, AC: 12 ~ 277
0.36W	0.45W	0.90W	DC: 0.93W, AC: 2.3VA
100MΩ (at 500VDC)	250MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)
3000VAC 1 min	2500VAC 1 min	5000VAC 1 min	2500VAC 1 min
1000VAC 1 min	1000VAC 1 min	1000VAC 1 min	1500VAC 1 min
-40°C ~ 95°C	-40°C ~ 85°C	-40°C ~ 110°C	-55°C ~ 85°C
			
			

High Power relays				
SERIES		AZ2270	AZ2280	AZ2310
				
Dimensions LxWxH mm		32.4 x 27.5 x 27.8	50.2 x 27.5 x 27.8	50.5 x 32.8 x 24.5
FEATURES		30A switching QCT w/PCB pins Dielectric strength 4kVrms Class F insulation std. AC and DC coils	30A switching AC and DC coils Class F insulation std.	30A switching 70A inrush Creepage distance >8 mm
Approvals		c UL us VDE(DC coil)	c UL us VDE(DC coil)	c UL us
Contact Arrangement		SPST-NO or NC, SPDT	SPST-NO or NC, SPDT	SPST-NO
Contact Material		$AgSnO_2$, $AgCdO_2$	$AgSnO_2$, $AgCdO_2$	$AgSnO_2$
Max Switching Power		840W / 8310VA	840W / 8310VA	7500VA
Max Switching Voltage		28VDC / 277VAC	28VDC / 277VAC	250VAC
Max Switching Current		30A	30A	30A
Safety Approved Contact Ratings		30A@277VAC 20FLA / 60LRA@277VAC	30A@277VAC 20FLA / 60LRA@277VAC	30A@250VAC 2 HP@125/250VAC TV-15@120VAC
Coil Voltages		DC: 5 ~ 110, AC: 12 ~ 277	DC: 5 ~ 110, AC: 12 ~ 277	DC: 3 ~ 60
Nominal Coil Power		DC:0.93W, AC:2.3VA	DC:0.93W, AC:2.3VA	1.25W
Insulation Resistance		1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)
Dielectric Strength	Contact to Coil	4000VAC 1 min	2500VAC 1 min	4000VAC 1 min
	Open Contacts	1500VAC 1 min	1500VAC 1 min	1200VAC 1 min
Ambient Temperature		-55°C ~ 85°C	-55°C ~ 85°C	-40°C ~ 70°C
Mounting Layout (Bottom View) (mm)				
Wiring Diagram (Bottom View)				

High Power relays			
AZ2700	AZ2701	AZ2702	AZ2703
			
68 x 33.5 x 36	52.5 x 33.5 x 36	51.5 x 34.9 x 36	51.5 x 34.9 x 36
30A switching Class B insulation std Class F insulation avail. Dielectric Strength 4kVrms 3.0mm contact gap avail	30A switching Class B insulation std Class F insulation avail. Dielectric Strength 4kVrms 3.0mm contact gap avail	30A switching Class B insulation std Class F insulation avail. Dielectric Strength 4kVrms 3.0mm contact gap avail	30A switching Class B insulation std Class F insulation avail. Dielectric Strength 4kVrms 3.0mm contact gap avail
c UL us TUV	c UL us TUV	c UL us TUV	c UL us TUV
SPST-DM-NO, DPST-DM-NO	SPST-DM-NO, DPST-DM-NO	SPST-DM-NO, DPST-DM-NO	SPST-DM-NO, DPST-DM-NO
$AgSnO_2$, $AgCdO_2$	$AgSnO_2$, $AgCdO_2$	$AgSnO_2$, $AgCdO_2$	$AgSnO_2$, $AgCdO_2$
840W / 8310VA	840W / 8310VA	840W / 8310VA	840W / 8310VA
150VDC / 400 VAC	150VDC / 400 VAC	150VDC / 400 VAC	150VDC / 400 VAC
30A	30A	30A	30A
30A@277VAC 3 HP@240VAC TV-10@120VAC TUV: 27A@240VAC cos phi = 0.8	30A@277VAC 3 HP@240VAC TV-10@120VAC TUV: 27A@240VAC cos phi = 0.8	30A@277VAC 3 HP@240VAC TV-10@120VAC TUV: 27A@240VAC cos phi = 0.8	30A@277VAC 3 HP@240VAC TV-10@120VAC TUV: 27A@240VAC cos phi = 0.8
DC: 3 ~ 200, AC: 6 ~ 240	DC: 3 ~ 200, AC: 6 ~ 240	DC: 3 ~ 200, AC: 6 ~ 240	DC: 3 ~ 200, AC: 6 ~ 240
DC: 1.92W, AC:2.2VA	DC: 1.92W, AC:2.2VA	DC: 1.92W, AC:2.2VA	DC: 1.92W, AC:2.2VA
1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)
4000VAC 1 min	4000VAC 1 min	4000VAC 1 min	4000VAC 1 min
2000VAC 1 min	2000VAC 1 min	2000VAC 1 min	2000VAC 1 min
-40°C ~ 105°C	-40°C ~ 105°C	-40°C ~ 105°C	-40°C ~ 105°C
			
			

High Power relays				
SERIES		AZ2704	AZ2705	AZ2800
				
Dimensions LxWxH		50.5 x 33.5 x 36	68.3 x 33.8 x 51.3	68.4 x 34.5 x 26.4
FEATURES		30A switching Class B insulation std Class F insulation avail. Dielectric Strength 4kVrms 3.0mm contact gap avail	30A switching Class B insulation std Class F insulation avail. Dielectric Strength 4kVrms 3.0mm contact gap avail	30A switching Meets 8mm creepage Class F insulation std.
Approvals		c UL us TUV	c UL us TUV	c UL us VDE
Contact Arrangement		SPST-DM-NO, DPST-DM-NO	SPST-DM-NO, DPST-DM-NO	DPST-NO, DPDT
Contact Material		$AgSnO_2$, $AgCdO_2$	$AgSnO_2$, $AgCdO_2$	$AgSnO_2$, $AgCdO_2$
Max Switching Power		840W / 8310VA	840W / 8310VA	560W / 8310VA
Max Switching Voltage		150VDC / 400 VAC	150VDC / 400 VAC	30VDC / 600VAC
Max Switching Current		30A	30A	30A
Safety Approved Contact Ratings		30A@277VAC 3 HP@240VAC TV-10@120VAC TUV: 27A@240VAC cos phi = 0.8	30A@277VAC 3 HP@240VAC TV-10@120VAC TUV: 27A@240VAC cos phi = 0.8	NO: 30A@277VAC NO (DC coil only): 25.3FLA/110LRA@240VAC 2.5HP@240VAC
Coil Voltages		DC: 3 ~ 200, AC: 6 ~ 240	DC: 3 ~ 200, AC: 6 ~ 240	DC: 6 ~ 110, AC: 12 ~ 277
Nominal Coil Power		DC: 1.92W, AC: 2.2VA	DC: 1.92W, AC: 2.2VA	DC: 1.68W, AC: 4.08VA
Insulation Resistance		1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)
Dielectric Strength	Contact to Coil	4000VAC 1 min	4000VAC 1 min	4000VAC 1 min
	Open Contacts	2000VAC 1 min	2000VAC 1 min	1500VAC 1 min
Ambient Temperature		-40°C ~ 105°C	-40°C ~ 105°C	DC:-40°C ~ 85°C
Mounting Layout (Bottom View) (mm)				
Wiring Diagram (Bottom View)				

High Power relays			
AZ2850	AZ2150	AZ2100	AZ2110/AZ2120
			
52.6 x 34.8 x 26.4	31.8 x 26.9 x 19.1	32.2 x 27.4 x 27.9	30.5 x 24.65 x 15.7
30A switching Meets 8mm creepage Class F insulation std.	40A switching Class B insulation std. Class F insulation avail. (PTI/CTI) 175	40A switching Class B insulation std. Class F insulation avail. (PTI/CTI) 175	40 Amp switching Class B insulation std. Class F insulation avail. PC / track-saver terminals (PTI/CTI) 175
c UL us VDE	c UL us VDE	c UL us VDE	c UL us VDE
DPST-NO, DPDT	SPST-NO or NC, SPDT	SPST-NO or NC, SPDT	SPST (NO) or (NC), SPDT
$AgSnO_2$, $AgCdO_2$	$AgCdO_2$	$AgCdO_2$	$AgCdO_2$
560W / 8310VA	900W / 10000VA	900W / 10000VA	900 W or 10000 VA
30VDC / 600VAC	30VDC / 300VAC	30VDC / 300VAC	30 VDC or 300 VAC
30A	40A	40A	40A
NO: 30A@277VAC NO (DC coil only): 25.3FLA/110LRA@240VAC 2.5 HP@240VAC	40A@250VAC 96LRA / 30FLA@125VAC 3HP@240VAC TV-5@120VAC	40A@250VAC 96LRA / 30FLA@125VAC 3HP@240VAC TV-5@120VAC	40A@250VAC 96LRA / 30FLA@125VAC 3HP@240VAC TV-5@120VAC
DC: 6 ~ 110, AC: 12 ~ 277	DC: 5 ~ 110	DC: 5 ~ 110	DC: 5 ~ 110
DC: 1.68W, AC: 4.08VA	0.9W	0.9W	0.9W
1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	100MΩ (at 500VDC)	1000MΩ (at 500VDC)
4000VAC 1 min	2500VAC 1 min	2500VAC 1 min	2500VAC 1 min
1500VAC 1 min	1500VAC 1 min	1500VAC 1 min	1500VAC 1 min
DC:-40°C ~ 85°C	-55°C ~ 125°C	-55°C ~ 125°C	-55°C ~ 125°C
			
			

Latching Relays				
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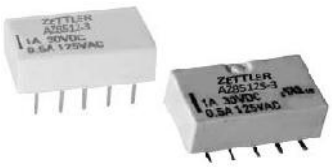
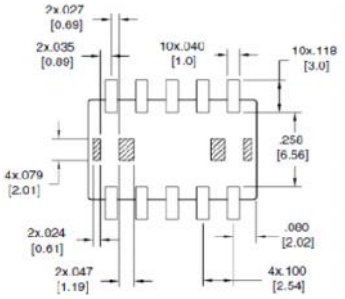
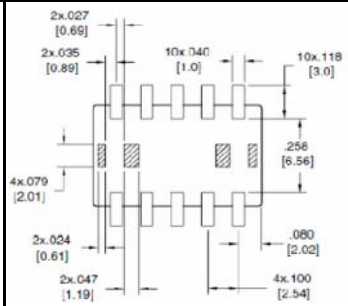
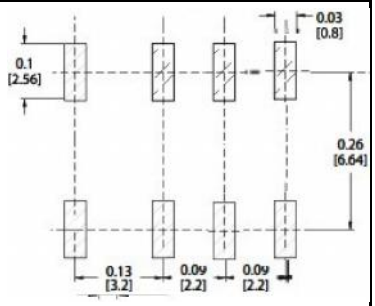
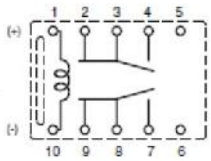
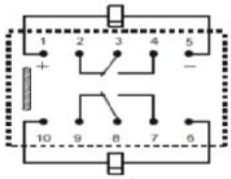
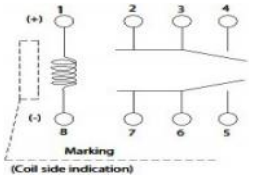
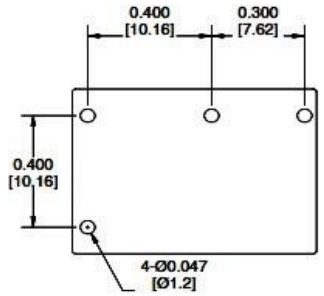
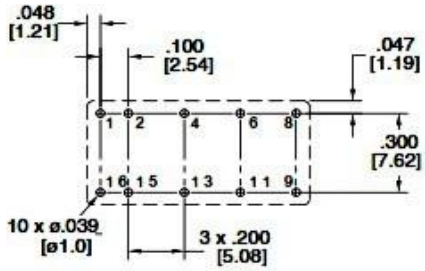
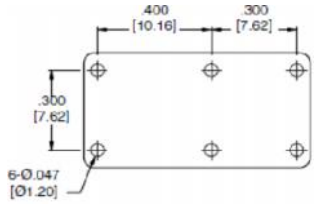
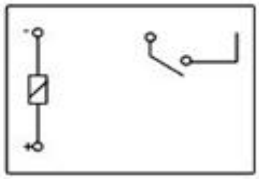
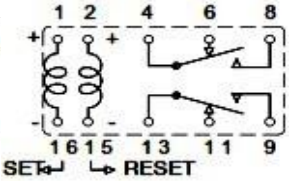
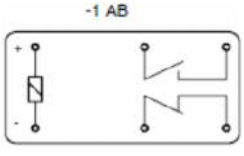
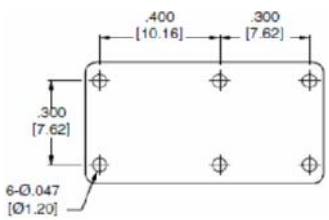
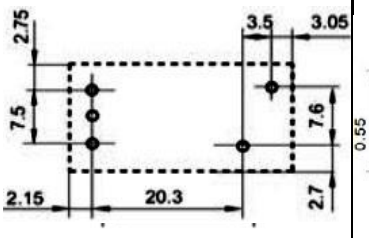
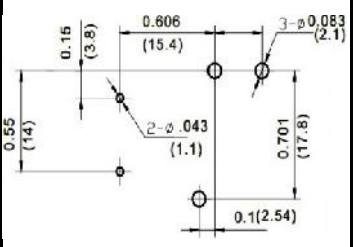
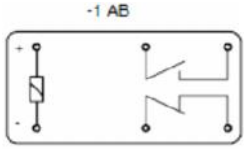
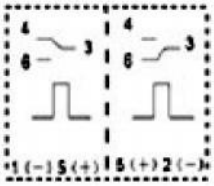
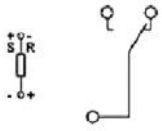
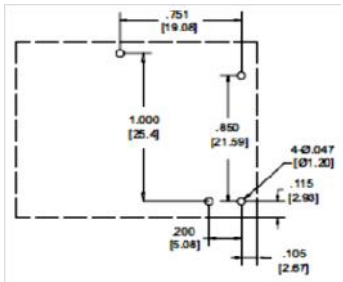
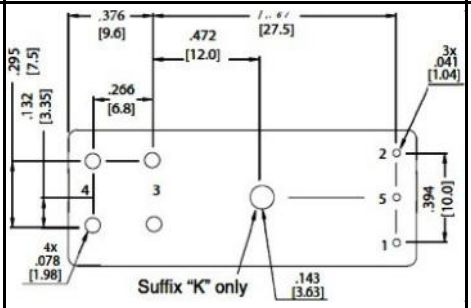
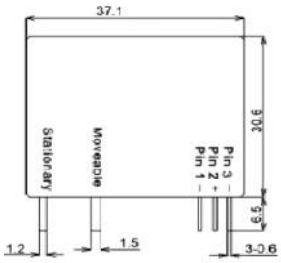
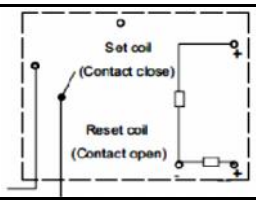
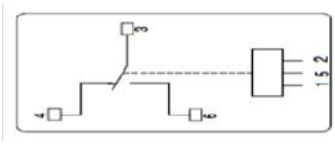
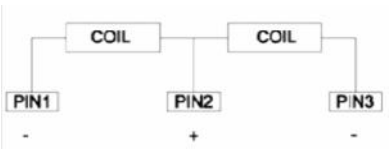
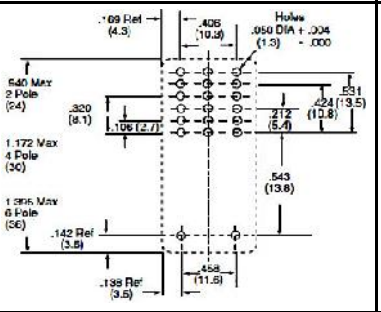
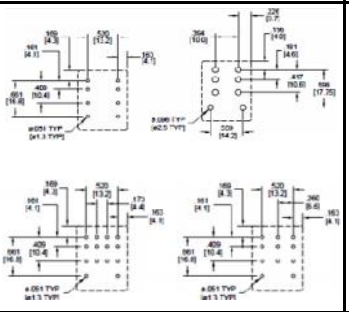
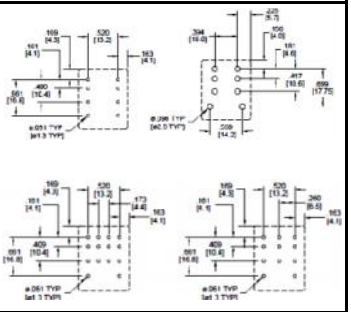
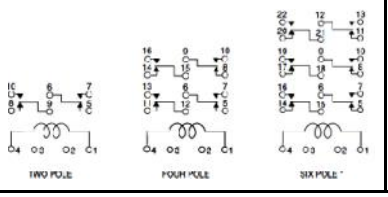
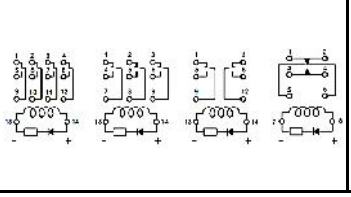
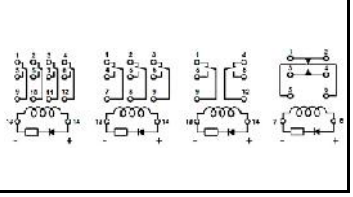
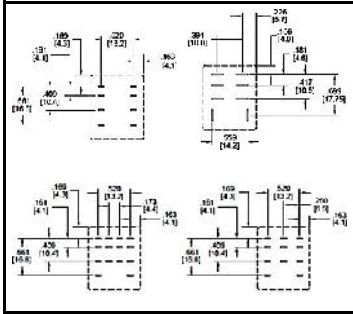
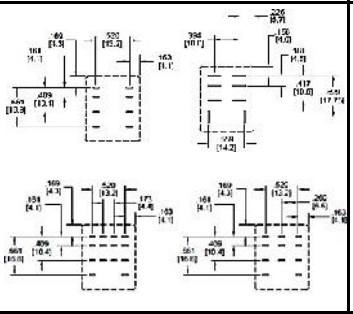
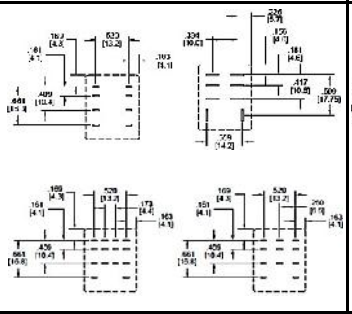
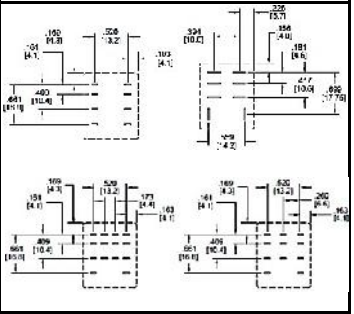
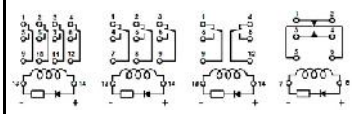
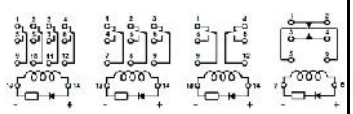
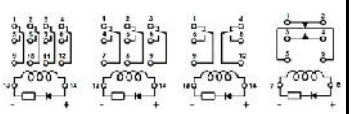
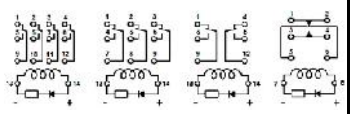
				
Dimensions LxWxH mm		14 x 9 x 5	14.0 x 9 x 5.4	10.6 x 7.2 x 5.2
FEATURES		High sensitivity Single or dual coil Meets FCC part 68.302 Layout fits 10 pin IC socket	THT or SMT ("L" terminal) Meets FCC part 68.302 Monostable or bistable	High dielectric / surge voltage Monostable or bistable Low power consumption Stable contact resistance
Approvals		c UL us	c UL us	c UL us
Contact Arrangement		DPDT (Bifurcated crossbar)	DPDT	DPDT (Bifurcated crossbar)
Contact Material		AgPd; Au clad	AgNi with Au plating	Ag Alloy, Au clad
Max Switching Power		30W / 62.5VA	30W / 62.5VA	60W / 62.5VA
Max Switching Voltage		220VDC / 250VAC	110VDC / 125VAC	220VDC / 250VAC
Max Switching Current		1A	2A	2A
Safety Approved Contact Ratings		1A@30VDC 0.5A@125VAC	0.5A@125VAC 2A@30VDC	0.5A@125VAC 2A@30VDC 0.3A@110VDC
Coil Voltages		DC: 3 ~ 48	1.5 ~ 24VDC	DC: 1.5 ~ 24
Nominal Coil Power		0.1W, 0.2W	0.1W, 0.14W, 0.2W	0.1W, 0.14W
Insulation Resistance		1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)
Dielectric Strength	Contact to Coil	1000VAC 1 min	1000VAC 1 min	1500VAC 1 min
	Open Contacts	1000VAC 1 min	750VAC 1 min	1000VAC 1 min
Ambient Temperature		-40°C ~ 70°C	-40°C ~ 70°C	-40°C ~ 85°C
Mounting Layout (Bottom View) (mm)				
Wiring Diagram (Bottom View)				

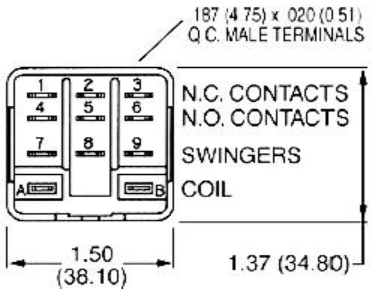
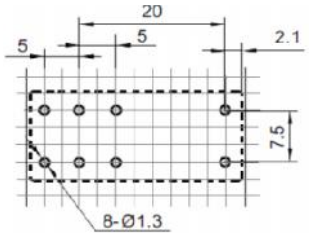
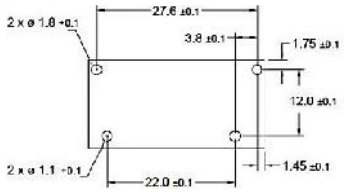
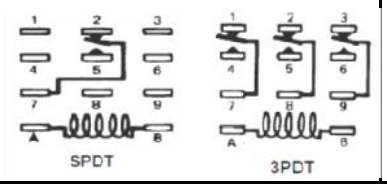
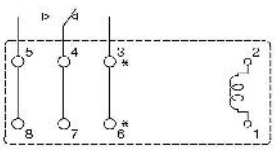
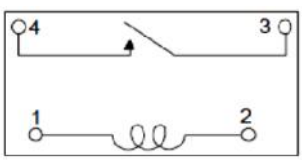
Latching Relays		
AZ880	AZ832P	AZ881
		
20 x 15 x 10.2	20.2 x 10 x 10.7	20.2 x 11 x 10
10A switching Dielectric strength 4kVrms Single or dual coil	Low profile DIP package Single or dual coil Fits standard 16 pin IC socket	8A switching Dielectric strength 3kVrms Single or dual coil
c UL us	c UL us	c UL us
SPST/DPST-NO, DPST-NO+NC	DPDT (Bifurcated crossbar)	SPST-NO, DPST-NO, DPST-NO+NC
AgNil, $AgSnO_2$, Au plating	Au plated Ag	AgNi, Au plating optional
300W,2.5kVA(S); 240W,2kVA(D)	60W / 62.5VA	SPST:150W/2000VA, DPST:150W/1250VA
150 VDC or 380 VAC	220VDC / 250VAC	150VDC / 380VAC
10A	3A	8A
10A@250VAC 1/3 HP@250VAC B300 Pilot duty	3A@30VDC/125VAC	8A@30VDC /250VAC 1/6HP@250VAC
DC: 3 ~ 24	DC: 3 ~ 24	DC: 3 ~ 24
(single) 0.2W, (dual) 0.3W	0.1W - 0.2W	(single) 0.15W, (dual) 0.3W
1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)
4000VAC 1 min(1P), 3000VAC 1 min(2P)	1500VAC 1 min	3000VAC 1 min
1000VAC 1 min	1000VAC 1 min	1000VAC 1 min
-40°C ~ 70°C	-40°C ~ 85°C	-40°C ~ 70°C
		
		

Latching Relays				
SERIES		AZ888	AZ762P	AZ21501P
				
Dimensions LxWxH mm		20.2 x 11.3 x 11.5	29 x 12.7 x 15.7	32.5 x 27.6 x 20.5
FEATURES		8A switching Dielectric strength 3kVrms Single or dual coil latching	20A switching Tungsten premake option High inrush 500A / 2ms 3.5mm or 5.0mm pin spacing Single or dual coil	30-50A switching Manual override option Designed to meet UL20 Dielectric Strength 4kVrms
Approvals		c UL us	c UL us	c UL us
Contact Arrangement		SPST-NO, SPDT, DPST (1A+1B)	SPST-NO or NC, SPDT	SPST-NO or NC, SPDT
Contact Material		AgSnO (Au plating optional)	$AgSnO_2$, Tungsten/$AgSnO_2$	$AgSnO_2$
Max Switching Power		SP:150W/2000VA, DP:150W/1250VA	5000VA	1200W / 13850VA
Max Switching Voltage		240VDC / 380VAC	250VAC	110VDC / 277VAC
Max Switching Current		8A	20A	50A
Safety Approved Contact Ratings		SPST: 8A@125/250VAC DPST: 5A@125/250VAC, 30VDC DPST (1A+1B): 5A@125/250VAC 5A@30VDC	20A@250VAC 1.5 HP@250VAC motor T' High inrush version: 3300W@277VAC elec. ballast 3000W@220VAC Tungsten	50A@277VAC 40A@277VAC 30A@277VAC
Coil Voltages		3 ~ 24VDC	DC: 3 ~ 24	DC: 5 ~ 48
Nominal Coil Power		(mono/dual) 0.2W, (single) 0.1W	(single) 0.4W, (dual) 0.6W	0.9W (30A/40A), 1.5W (50A)
Insulation Resistance		1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)
Dielectric Strength	Contact to Coil	3000VAC 1 min	4400VAC 1 min	2500VAC 1 min
	Open Contacts	1000VAC 1 min	1000VAC 1 min	1500VAC 1 min
Ambient Temperature		-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C
Mounting Layout (Bottom View) (mm)				
Wiring Diagram (Bottom View)				

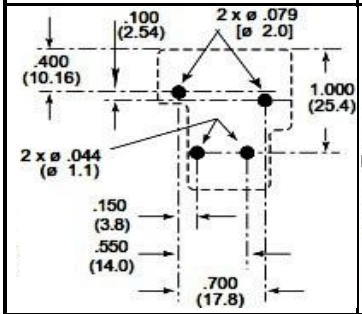
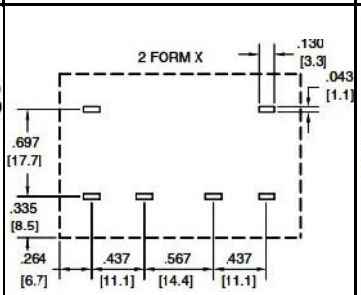
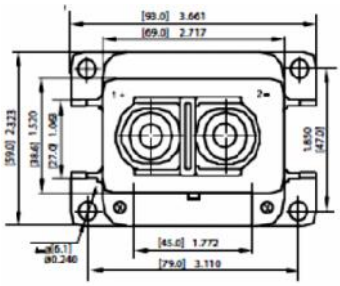
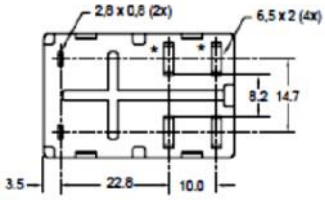
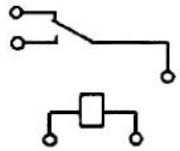
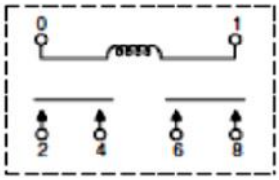
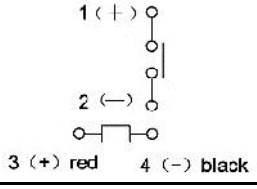
Latching Relays		
AZ2500	AZ2501	AZ2505
		
38.3 x 16.3 x 30.3	39.3 x 15.3 x 30.5	37.1 x 17.2 x 33.5
60A switching Dielectric Strength 4kVrms Braided leads available	50A switching Inrush current 500A / 2ms max 1.5mm contact gap available Dielectric Strength 4kVrms	120A switching Heavy loads to 30000VA Dielectric Strength 4kV Single or dual coil latching Multiple termination styles
c UL us	c UL us	UL Pending
SPST-NO	SPST-NO, SPDT	SPST-NO or NC
$AgSnO_2$, $AgCdO_2$	$AgSnO_2$	Silver alloy
15000VA	13850VA	30000VA
400VAC	440VAC	250VAC
60 A	50A	120A
60A@250VAC	50A@277VAC 5540W@277VAC Tungsten 20A@120/277VAC Ballast 20FLA / 120LRA@120VAC 40A@277VAC	120A@250VAC 100A@250VAC 80A@250VAC 60A@250VAC
DC: 5 ~ 48	DC: 6 ~ 48	DC: 5 ~ 24
(single) 1.0W, (dual) 2.1W	(single)1.5 W, (dual)3.0 W	1.0W (single), 2.0W (dual)
1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)
4000VAC 1 min	4000VAC 1 min	4000VAC 1 min
1500VAC 1 min	1500VAC 1 min	1500VAC 1 min
-40°C ~ 70°C	-40°C ~ 70°C	-40°C ~ 85°C
		
		

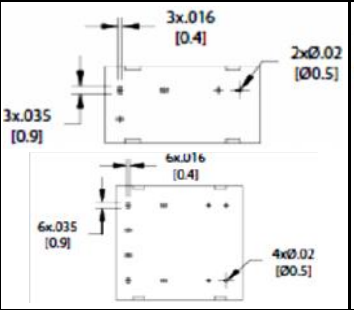
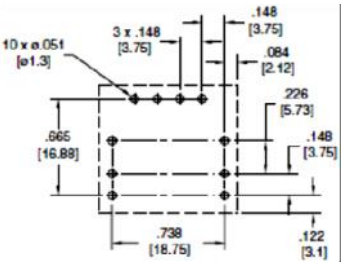
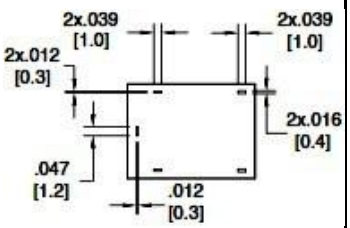
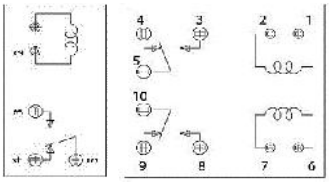
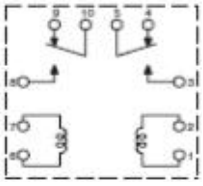
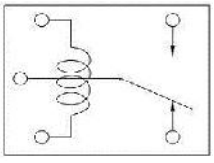
Plug-In Relays				
SERIES		AZ420	AZ164	AZ1641
				
Dimensions LxWxH mm		24.9 x 19 x 30.5	28 x 21.5 x 35	28 x 21.5 x 35
FEATURES		High reliability Coil power to 25mW / pole 6 poles < 1 cu. in. Dry circuit to 5A switching PC/solder/plug-in	PC terminals High switching capacity AC and DC coils Push to test lever available	PC terminals High switching capacity AC and DC coils
Approvals		c UL us	c UL us CE	c UL us
Contact Arrangement		DPDT, 4PDT, 6PDT	SPDT, DPDT, 3PDT, 4PDT	SPDT, DPDT, 3PDT, 4PDT
Contact Material		Fine Ag or AgCdO2, Au plated	$AgCdO_2$, AgCe	$AgCdO_2$
Max Switching Power		56 ~ 225W / 230 ~ 870VA	450W / 3750VA	560W / 5540VA
Max Switching Voltage		150VDC / 300VAC	30VDC / 250VAC	30VDC / 250VAC
Max Switching Current		5A	15A	20A
Safety Approved Contact Ratings		40LUS,10LUS: 2A@26VDC/115VAC 4LUS,1LUS: 2A@28VDC/115VAC 4HUS,1HUS: 5A@28VDC/115VAC	SPDT: 15A@250VAC DPDT: 10A@30VDC/250VAC 1/3HP@120/240VAC 3PDT, 4PDT: 5A@30VDC 5A@250VAC	SPDT: 20A@28VDC/277VAC DPDT: 10A@28VDC/277VAC 1/2HP(9.8A)@125VAC 3PDT: 10A@28VDC/220VAC 4PDT: 5A@28VDC/220VAC
Coil Voltages		DC: 3 ~ 115	DC: 5 ~ 110, AC: 6 ~ 240	DC: 6 ~ 110, AC: 6 ~ 240
Nominal Coil Power		0.1W ~ 0.9W	0.9W, 1.2VA	0.9W, 1.2VA
Insulation Resistance		1000MΩ (at 500VDC)	100MΩ (at 500VDC)	100MΩ (at 500VDC)
Dielectric Strength	Contact to Coil	1500VAC 1 min	1500VAC 1 min	1500VAC 1 min
	Open Contacts	1000VAC 1 min	1000VAC 1 min	1000VAC 1 min
Ambient Temperature		-55°C ~ 80°C	-50°C ~ 70°C	-50°C ~ 70°C
Mounting Layout (Bottom View) (mm)				
Wiring Diagram (Bottom View)				

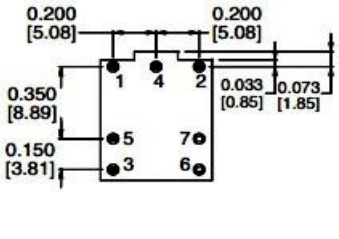
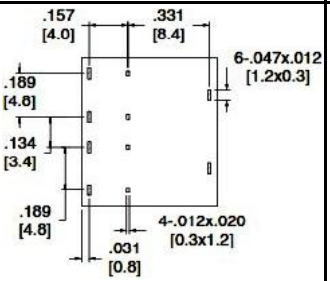
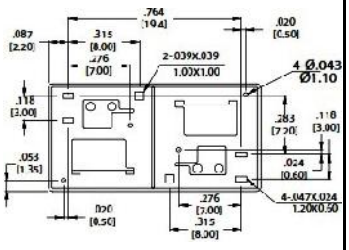
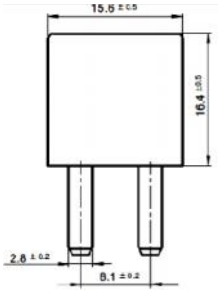
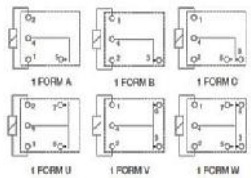
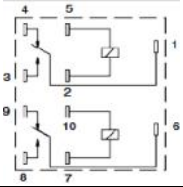
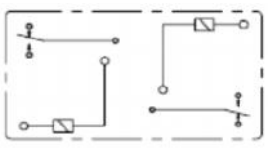
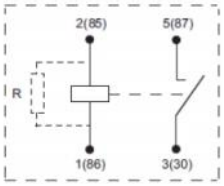
Plug-In Relays			
AZ165	AZ1651	AZ166	AZ1661
			
28 x 21.5 x 35	28 x 21.5 x 35	43 x 21.5 x 35	43 x 21.5 x 35
Plug in / solder terminals High switching capacity AC and DC coils Push to test lever available	Plug in / solder terminals High switching capacity AC and DC coils	Top panel mount High switching capacity AC and DC coils	Top panel mount High switching capacity AC and DC coils
c UL us CE	c UL us	c UL us CE	c UL us
SPDT, DPDT, 3PDT, 4PDT	SPDT, DPDT, 3PDT, 4PDT	SPDT, DPDT, 3PDT, 4PDT	SPDT, DPDT, 3PDT, 4PDT
$AgCdO_2$, AgCe	$AgCdO_2$	$AgCdO_2$, AgCe	$AgCdO_2$
450W / 3750 VA	560W / 5540VA	450W / 3750 VA	560W / 5540VA
30VDC / 250VAC	28VDC / 277VAC	30VDC / 250VAC	28VDC / 277VAC
15A	20A	15A	20A
SPDT: 15A@250VAC DPDT: 10A@30VDC/250VAC 1/3HP@120/240VAC 3PDT, 4PDT: 5A@30VDC 5A@250VAC	SPDT: 20A@28VDC/277VAC DPDT: 10A@28VDC/277VAC 1/2HP(9.8A)@125VAC 3PDT: 10A@28VDC/220VAC 4PDT: 5A@28VDC/220VAC	SPDT: 15A@250VAC DPDT: 10A@30VDC/250VAC 1/3HP@120/240VAC 3PDT, 4PDT: 5A@30VDC 5A@250VAC	SPDT: 20A@28VDC/277VAC DPDT: 10A@28VDC/277VAC 1/2 HP(9.8A)@125VAC 3PDT: 10A@28VDC/220VAC 4PDT: 5A@28VDC/220VAC
DC: 5 ~ 110, AC: 6 ~ 240	DC: 6 ~ 110, AC: 6 ~ 240	DC: 5 ~ 110, AC: 6 ~ 240	DC: 6~110, AC: 6~240
0.9W, 1.2VA	0.9W, 1.2VA	0.9W, 1.2VA	0.9W, 1.2VA
100MΩ (at 500VDC)	100MΩ (at 500VDC)	100MΩ (at 500VDC)	100MΩ (at 500VDC)
1500VAC 1 min	1500VAC 1 min	1500VAC 1 min	1500VAC 1 min
1000VAC 1 min	1000VAC 1 min	1000VAC 1 min	1000VAC 1 min
-50°C ~ 70°C	-50°C ~ 70°C	-50°C ~ 70°C	-50°C ~ 70°C
			
			

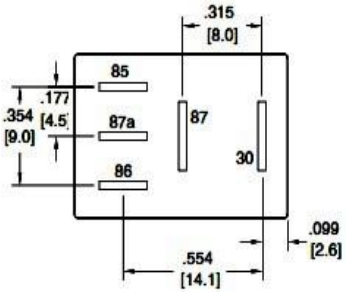
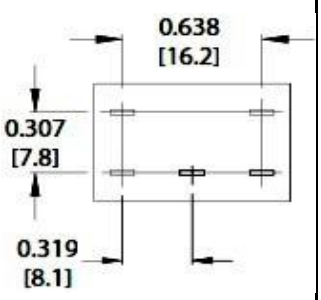
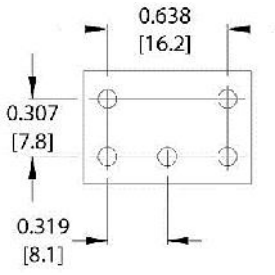
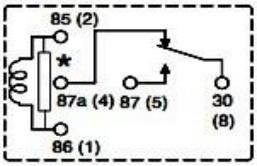
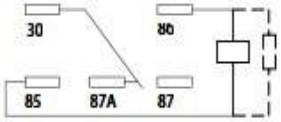
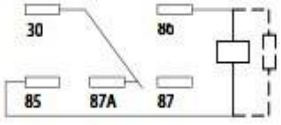
Plug-In Relays		Solar Relays	
SERIES	AZKUP	AZ733W / AZ733WC	AZSR126
			
Dimensions LxWxH mm	38.1 x 34.8 x 55.9	29.0 x 13 x 25.9	30.4 X 15.9 X 23.3
FEATURES	Plug-in/solder terminals High switching capacity AC and DC coils Class F insulation std.	Dielectric strength 5kVrms Wide gap: 1.5mm or 2mm 10A switching Class F insulation avail.	31A switching Contact gap >1.5mm Dielectric Strength 4.5kVrms
Approvals	c UL us	c UL us TUV	c UL us
Contact Arrangement	SPDT, DPDT, 3PDT	DPST-NO, DPDT	SPST-NO
Contact Material	$AgCdO_2$, Au+Ag	AgCdO, $AgSnO_2$, AgNi, Au avaliable	$AgSnO_2$
Max Switching Power	280W / 3600 VA	300W / 2500VA	8587VA
Max Switching Voltage	28VDC / 600VAC	150VDC / 400VAC	277VAC
Max Switching Current	13A	10A	31A
Safety Approved Contact Ratings	13A@120VAC 3A@600VAC 1/2HP@277VAC 10A@28VDC B600 Pilot duty	10A@250VAC/30VDC 10A@250VAC gen use TV-3@125VAC	26A@277VAC 22A@250VAC
Coil Voltages	DC: 12 ~ 110, AC: 12 ~ 240	DC: 3 ~ 60	DC: 9 ~ 24
Nominal Coil Power	1.2W, 2.2VA	0.8W	1.4W
Insulation Resistance	100MΩ (at 500VDC)	1000MΩ (at 500VDC)	1000MΩ (at 500VDC)
Dielectric Strength — Contact to Coil	2200VAC 1 min	5000VAC 1 min	4500VAC 1 min
Dielectric Strength — Open Contacts	800VAC 1 min	1000VAC 1 min	2500VAC 1 min
Ambient Temperature	DC:-55°C~70°C; AC:-45°C~55°C	-40°C ~ 80°C	-40°C ~ 85°C
Mounting Layout (Bottom View) (mm)			
Wiring Diagram (Bottom View)			

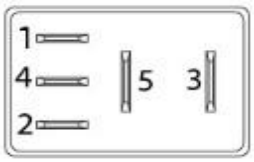
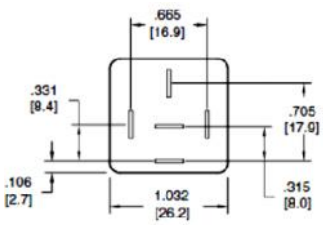
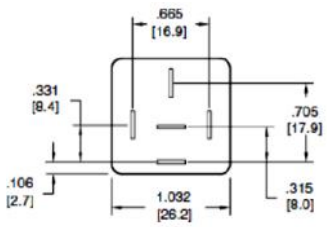
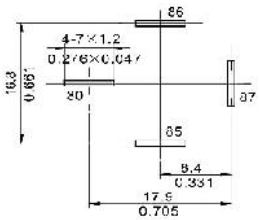
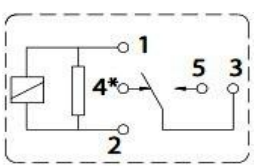
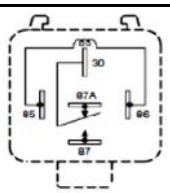
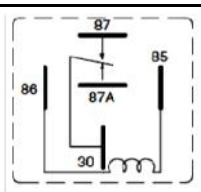
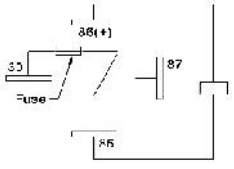
Solar Relays

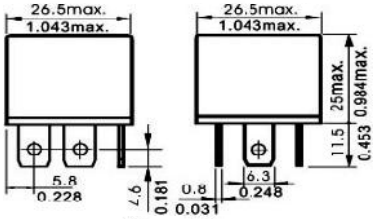
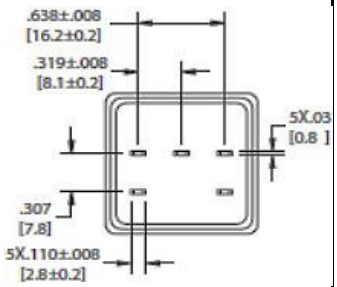
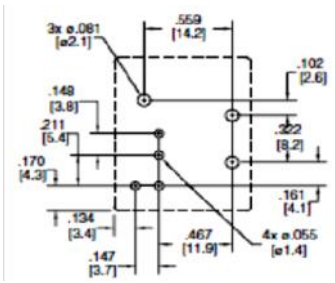
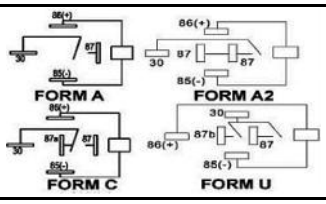
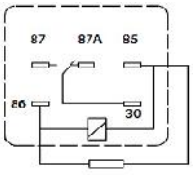
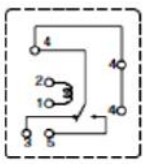
AZ2150W	AZ2704	AZDC	AZSR235/250
			
32.2 x 27.0 x 20.1	50.5 x 33.5 x 36.0	77.6 x 40.0 x 75.6	40 x 25 x 49.2
1.75mm contact gap Epoxy sealed available 30A switching 3kVrms dielectric avail.	30A switching Class B insulation std Class F insulation avail. Dielectric Strength 4kVrms 3.0mm contact gap avail	IN DEVELOPMENT 1000VDC switching 80A - 300A switching Dielectric Strength 2.5kVrms Hermetically sealed	50A switching Contact gap: 1.85mm (50A) Contact gap: 1.85mm (35A) Holding power <100mW Isolation spacing >10mm
c UL us VDE	c UL us TUV	UL Pending	c UL us VDE
SPST-NO	SPST-DM-NO, DPST-DM-NO	SPST-DM-NO	SPST-NO, DPST-NO
$AgSnO_2$	$AgSnO_2$, $AgCdO_2$	Cu Alloy	$AgSnO_2$
900W / 8310VA	840W / 8310VA	750kW	1500W / 13850VA
240VDC / 440VAC	150VDC / 400VAC	1000VDC	150VDC / 440VAC
30A	30A	2500A	50A
30A@277VAC	30A@277VAC 3HP@240VAC TV-10@120VAC 10A@120VAC Tungsten	80A@400VDC 120A@400VDC 300A@400VDC	35A@277VAC 50A@277VAC
DC: 5 ~ 48	DC:3 ~ 200, AC: 6 ~ 240	DC: 12, 24	DC: 5~24
1.1W	DC: 1.9W AC: 2.2VA	4.5W	0.3W
1000MΩ (at 500VDC)	1000MΩ (at 500VDC)	100MΩ (at 500VDC)	1000MΩ (at 500VDC)
2500VAC 1min	4000VAC 1min	2500VAC 1min	5000VAC 1min
1500VAC 1min	2000VAC 1min	2500VAC 1min	2500VAC 1min
-40°C ~ 85°C	-40°C ~ 105°C	-40°C ~ 85°C	-40°C ~ 85°C
			
			

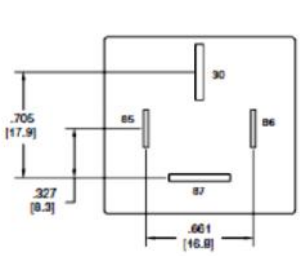
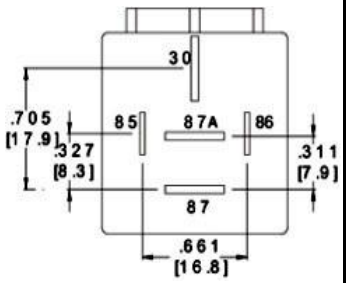
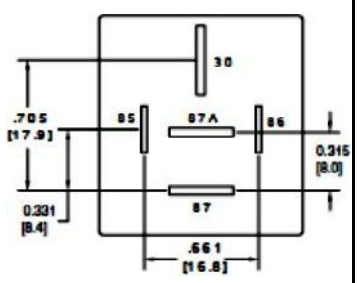
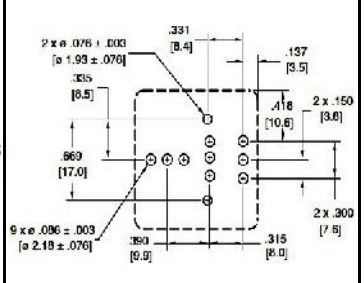
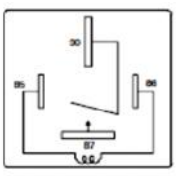
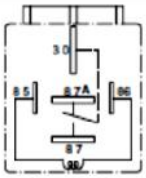
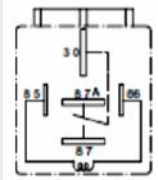
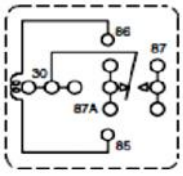
Automotive Relays				
SERIES		AZ934	AZ935	AZ9471
				
Dimensions LxWxH mm		17.8 x 9.6 (17.1) x 13.5	23 x 22.5 x 21	15.5 x 12.3 x 14
FEATURES		25A switching Sealed Quiet operation Vibration / shock resistant	25A switching Sealed Quiet operation Vibration / shock resistant	25A switching Contact gap 0.3mm Low profile, small footprint
Certifications		ISO/TS	ISO/TS	ISO/TS
Contact Arrangement		SPDT, DPDT	DPDT (2X1 form C)	SPDT
Contact Material		$AgSnO_2$	$AgSnO_2$	$AgSnO_2$
Max Switching Power		280W	280W	210W
Max Switching Voltage		100VDC	100VDC	30VDC
Max Switching Current		(Make/Break) 25A/20A	(Make/Break) 25A/20A	25A
Contact Ratings		Continuous 20A	Continuous 20A	20A@14VDC motor (make) 4A@14VDC motor (break) Max. carry: 35A/10 min. Max. surge: 60A/1 sec.
Coil Voltages		DC: 12	DC: 12	DC: 6 ~ 24
Nominal Coil Power		0.6W	0.6W	0.6W
Insulation Resistance		100MΩ (at 500VDC)	100MΩ (at 500VDC)	100MΩ (at 500VDC)
Dielectric Strength	Contact to Coil	500VAC 1 min	500VAC 1 min	500VAC 1 min
	Open Contacts	500VAC 1 min	500VAC 1 min	500VAC 1 min
Ambient Temperature		-40°C ~ 100°C	-40°C ~ 100°C	-40°C ~ 85°C
Mounting Layout (Bottom View) (mm)				
Wiring Diagram (Bottom View)				

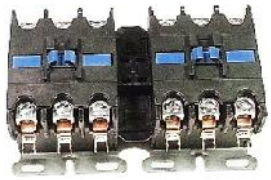
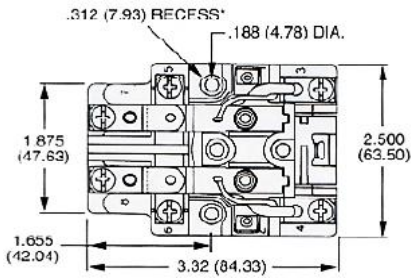
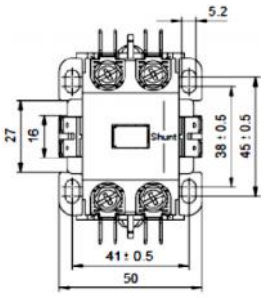
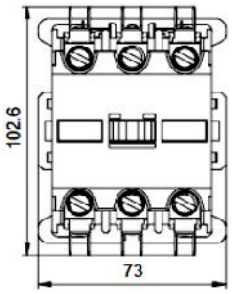
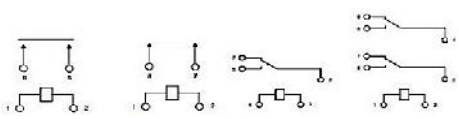
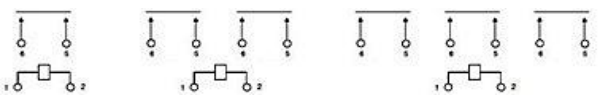
Automotive Relays			
AZ975/AZ976	AZ989	AZ987	AZ992
			
15.2 x 17.7 x 19.7	14.3 x 7.5 x 13.8	12.3 x 13.2 x 10.2	15.6 x 15.2 x 16.4
60A switching Vibration / shock resistant High inrush application Dual make/break avail.	25A switching Compact size Single / dual versions	30A switching Single / dual versions High inrush application	100A switching Vibration / shock resistant High inrush application Coil suppression available
ISO/TS	ISO/TS	ISO/TS	ISO/TS
SPST-NO, -NC, SPDT	SPDT-NO, DPDT (twin)	SPST/DPST-NO, SPDT, DPDT	SPST-NO
$AgSnO_2$	$AgSnO_2$	$AgSnO_2$	$AgSnO_2$
200W / 500VA	400W	480W	280W
100VDC	16VDC	16VDC	50VDC
60A	25A	30A	100A
(make/break), continuous 60A/20A, 15A	25A@16VDC, locked motor	30A@16VDC	20A@13.5VDC 40A@13.5VDC Inductive 100A@13.5VDC Lamp
DC: 6 ~ 24	DC: 12	DC: 6 ~ 12	DC: 12
6V: 1.3W; 12, 24V: 1.1W	0.64W / 0.8W	0.6W	0.9W
100MΩ (at 500VDC)	100MΩ (at 500VDC)	100MΩ (at 500VDC)	100MΩ (at 500VDC)
500VAC 1 min	500VAC 1 min	500VAC 1 min	500VAC 1 min
500VAC 1 min	500VAC 1 min	500VAC 1 min	500VAC 1 min
-40°C ~ 115°C	-40°C ~ 105°C	-40°C ~ 105°C	-40°C ~ 125°C
	 Dual package shown	 Dual package shown	
			

Automotive Relays				
SERIES		AZ977	AZ984	AZ9841
				
Dimensions LxWxH mm		23 x 15.5 x 26	23 x 15.51 x 25.7	23 x 15.5 x 25.7
FEATURES		20A switching Small footprint Vibration / shock resistant Cost effective High inrush application	20A switching Packard 280 footprint Vibration / shock resistant High inrush application Coil suppression available	40A switching Vibration / shock resistant High inrush applications Coil suppression avail.
Certifications		ISO/TS	ISO/TS	ISO/TS
Contact Arrangement		SPST-NO, SPDT	SPST-NO, SPDT	SPST-NO, SPDT
Contact Material		$AgSnO_2$	$AgSnO_2$	$AgSnO_2$
Max Switching Power		280W	270W	560W
Max Switching Voltage		150VDC	40VDC	75VDC
Max Switching Current		20A	20A	40A
Contact Ratings		20A@14VDC	20A@13.5VDC	SPST-NO: 35A@14VDC SPST-NC: 25A@14VDC
Coil Voltages		DC: 6 ~ 24	DC: 12 ~ 24	DC: 6 ~ 24
Nominal Coil Power		Std/Sensitive: 1.5W/1.2W	1.6W	0.9W / 1.33W
Insulation Resistance		100MΩ (at 500VDC)	100MΩ (at 500VDC)	100MΩ (at 500VDC)
Dielectric Strength	Contact to Coil	1000VAC 1 min	500VAC 1 min	500VAC 1 min
	Open Contacts	500VAC 1 min	500VAC 1 min	500VAC 1 min
Ambient Temperature		-40°C ~ 115°C	-40°C ~ 125°C	-40°C ~ 125°C
Mounting Layout (Bottom View) (mm)				
Wiring Diagram (Bottom View)				

Automotive Relays			
AZ988	AZ973	AZ974	AZ9731F
			
23.1 x 15.6 x 25.3	26.2 x 26.2 x 23.7	26.5 x 26.5 x 24	26.5 x 26.5 x 24
30A switching Plug-in / PCB terminals High inrush applications Coil suppression avail.	40A switching High operating temp. Shrouded cover option Coil supression avail. Plastic / steel bracket avail.	40A switching PCB terminals High operating temp. Coil supression avail.	30A switching Plug-in Blade-type fuse Steel bracket
ISO/TS	ISO/TS	ISO/TS	ISO/TS
SPST-NO, SPDT	SPST-NO, SPDT	SPST-NO, SPDT	SPST-NO
$AgSnO_2$	$AgSnO_2$	$AgSnO_2$	$AgSnO_2$
540W	NO: 560W, NC: 420W	NO: 560W, NC: 420W	420W
27VDC	75VDC	75VDC	75VDC
30A	40A	40A	30A
SPST-NO: 30A@12VDC SPST-NO: 120A make(lamp) SPDT-NO: 20A@12VDC SPDT-NO: 40A make(motor) SPDT-NC: 10A@12VDC	40A@14VDC	40A@14VDC	30A@14VDC
DC: 12 ~ 24	DC: 6 ~ 24	DC: 6 ~ 24	DC: 6 ~ 24
1.2W / 1.6W	1.7W	1.7W	1.8W
500MΩ (at 500VDC)	100MΩ (at 500VDC)	100MΩ (at 500VDC)	100MΩ (at 500VDC)
500VAC 1 min	500VAC 1 min	500VAC 1 min	750VAC 1 min (50Hz)
500VAC 1 min	500VAC 1 min	500VAC 1 min	500VAC 1 min (50Hz)
-40°C ~ 125°C	-55°C ~ 110°C	-55°C ~ 125°C	-40°C ~ 105°C
			
			

Automotive Relays				
SERIES		AZ9731T	AZ986	AZ970 / AZ971
				
Dimensions LxWxH mm		26.5 x 26.5 x 25.0	28.5 x 28.5 x 25.5	21.1 x 26.2 x 21.1
FEATURES		50A switching Double-make, tied pin opt. 125°C operating temp. Coil supression avail. Plastic / steel bracket avail.	40A switching Packard 280 footprint Shrouded cover option Coil suppression avail.	45A switching High inrush applications Open, covered, or sealed US or Euro footprint
Certifications		ISO/TS	ISO/TS	ISO/TS
Contact Arrangement		SPST-NO, SPDT	SPST-NO, SPDT	SPST-NO, -NC, SPDT
Contact Material		$AgSnO_2$	$AgSnO_2$	$AgSnO_2$
Max Switching Power		NO: 700W, NC: 560W	NO: 560W, NC: 420W	560W / 420W
Max Switching Voltage		75VDC	75VDC	150VDC
Max Switching Current		50A	40A	45A
Contact Ratings		SPST-NO: 50A@14VDC SPDT: 50A/40A@14VDC SPST-NO-DM: 2x25A@14VDC	40A@14VDC	40A@14VDC
Coil Ratings				
Coil Voltages		DC: 6 ~ 24	DC: 12 ~ 24	DC: 6 ~ 24
Nominal Coil Power		1.7W	1.6W	1.6W / 1.9W
Insulation Resistance		100MΩ (at 500VDC)	100MΩ (at 500VDC)	100MΩ (at 500VDC)
Dielectric Strength	Contact to Coil	750VAC 1 min	500VAC 1 min	500VAC 1 min
	Open Contacts	500VAC 1 min	500VAC 1 min	500VAC 1 min
Ambient Temperature		-40°C ~ 125°C	-55°C ~ 125°C	-40°C ~ 125°C
Mounting Layout (Bottom View) (mm)				
Wiring Diagram (Bottom View)				

Automotive Relays			
AZ9801	AZ979	AZ980	AZ983
			
26.2 x 26.2 x 24.9	29 x 33.4 x 41	35 x 33 x 35	29 x 29 x 28
70A switching High carry current 500A 125°C operating temp. Plug-in terminals	80A switching High carry current 500A High operating temp. Quick connect terminals	80A switching High carry current 500A High operating temp. Quick connect terminals	80A switching High carry current 500A High operating temp. PCB terminals
ISO/TS	ISO/TS	ISO/TS	ISO/TS
SPST-NO	SPST-NO, -NC, SPDT	SPST-NO, -NC, SPDT	SPST-NO, -NC, SPDT
$AgSnO_2$	$AgSnO_2$	$AgSnO_2$	$AgSnO_2$
980W	SPST: 1120W, SPDT-NO: 840W	SPST: 1120W, SPDT-NO: 840W	SPST: 1120W, SPDT-NO: 840W
50VDC	30VDC	30VDC	75VDC
70A	80A	80A	80A
70A@14VDC	80A@14VDC	80A@14VDC	80A@14VDC
DC: 6 ~ 24	DC: 6 ~ 24	DC: 6 ~ 24	DC: 6 ~ 24
1.6W / 2.0W	1.8W	1.6W - 1.8W	1.8W
100MΩ (at 500VDC)	100MΩ (at 500VDC)	100MΩ (at 500VDC)	100MΩ (at 500VDC)
500VAC 1 min	500VAC 1min	500VAC 1min	500VAC 1min
500VAC 1 min	500VAC 1min	500VAC 1min	500VAC 1min
-40°C ~ 125°C	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C
			
			

Contactors			
SERIES		AZPRD	XMCO
			 
Dimensions LxWxH mm		63.5 x 63.5 x 55.9	81 x 50 x 59
FEATURES		Up to 50A switching Box lugs or screw terminals AC and DC coils Blowout magnet option Class F insulation std.	Up to 90A switching Universal mounting plate; box lugs or QCT Thermoset plastic optional Interlock and aux contacts avail. Class F insulation std.
Approvals		c UL us	c UL us
Contact Arrangement		SPST-NO/NC, SPST-NO-DM, SPST-NC-DB, DPST-NO/NC, SPDT, DPDT	1-3 pole NO-DM, 1 pole with shunt
Contact Material		$AgCdO_2$	$AgCdO_2$, $AgSnO_2$
Max Switching Power		840W / 12000VA	Varies based on load type and frame size
Max Switching Voltage		600VAC / 28VDC	600VAC
Max Switching Current		50A	90 FLA
Safety Approved Contact Ratings		30A@240VAC 2HP@240VAC 3600VA@120 VAC/240VAC ballast 30A@28VDC (PRDE/PRDR 50A@277VAC)	25~90 Full Load Amps (FLA) 32~120 Resistive Load Amps (RLA) 150~540 Locked Rotor Amps (LRA)@240VAC 100~360 Locked Rotor Amps (LRA)@600VAC
Coil Voltages		DC: 6 ~ 110 AC: 6 ~ 480	AC: 12 ~ 600
Nominal Coil Power		DC: 2.0W, AC: 9.5VA	6.0 ~ 33.0 sealed VA / 3.5 ~ 12.0 sealed W
Insulation Resistance		100MΩ (at 500VDC)	Rated Insulated Voltage: 690Vrms
Dielectric Strength	Contact to Coil	2200VAC 1 min	2500VAC 1 min
	Open Contacts	2200VAC 1 min	2500VAC 1 min
Ambient Temperature		-45°C ~ 115°C	-25°C ~ 70°C
Mounting Layout (Bottom View) (mm)			 
Wiring Diagram (Bottom View)			 1P 2P 3P

When suffix "E" is specified for Epoxy Seal, refer to AZ "Relay Technical Notes"on AZ website-Product Resources. Consult factory for other PCB process conditions that may apply.

See Key Points Below:

Preheating

In order to improve the soldering performance, recommended temperature and time for preheat is 100°C (212°F) or less for duration of approximately 1 minute. Exposing relays to high temperatures for long periods of time may affect relay characteristics.

Soldering

Precautions in soldering seen in table below.

Automatic Soldering	Manual Soldering
• To maintain soldering stability, the suggested soldering method is wave solder. • Adjust the height of the flux liquid level as to prevent overflow of the PCB. • A solder temperature not to exceed 270°C (518°F) Max.	• Always keep the tip of the soldering iron clean to prevent contamination of the solder. • Suggested soldering conditions: Wattage range 30 -60W Temperature approximately 300° (572°F) Soldering duration approximately 3 seconds Rosin flux recommended

Cooling

Prompt air cooling is recommended as it prevents deterioration of the relay due to the soldering heat.
Avoid immersing a relay into cold liquids immediately after soldering as it may damage the hermetic characteristics of the relay.

Cleaning

Please select the cleaning method in the table below when cleaning.

Dust Protected Type	Flux Proofed Type	Plastic Sealed Type
• Cleaning by immersion is not recommended.		• Sealed relays can be safely cleaned by immersion. • Use of pressure or agitation water wash must use extreme care. • Ultrasonic cleaning is not recommended as it may cause problems such as breaks in the coil or slight sticking of the contacts.

More details available on AZ website under http://www.azettler.com/pdfs/technical_notes.pdf

Suggested Equivalents

Panasonic NAIS (Aromat)	Zettler
AEP	AZHVDC
AGQ	AZ852/AZ8521
ALD	AZ9375
ALF	AZ697/AZ6975
ALZ	AZ762 AZ576
DK/DSP	AZ880/AZ881/AZ888
CB 40 amp	AZ973/AZ974 AZ9731/AZ9741
CJ	AZ989/AZ9891J
CM	AZ988
CT5	AZ934/AZ935
DS2	AZ830/AZ832
DS2 Latching	AZ830P/AZ832P
DS2Y	AZ830/AZ832
HD	AZ955/AZ957/AZ9571
HC/HJ/HL	AZ164/AZ1641 AZ165/AZ1651 AZ166/AZ1661
K 2-Pole	AZ420/AZ428
K 4-Pole	AZ421/AZ429
K 6-Pole	AZ431/AZ439 AZ2428/AZ2429
LF-G	AZSR126
JJM	AZ947/AZ9471
JQ	AZ940/AZ9405
JR	AZ755/AZ7555
JS	AZ942/AZ943/AZ942H
JSM	AZ942A
JT-G	AZ2150W
JTN/JTV	AZ2110/AZ21101/ AZ2210 AZ2150/AZ21501 AZ2250
JTN1	AZ2270
JV	AZ9481
JW1	AZ755/7555/AZ576 AZ761/AZ762
JW2	AZ733/AZ743/AZ7335
LD	AZ921
LK	AZ673
PA	AZ921
PC1	AZ987/AZ9871
PE/PF	AZ6991
PQ	AZ940/AZ9405
SW2-DIE	SGC-4F
TQ2	AZ847/AZ850 AZ851/AZ8512
TW	AZ8462
TX2	AZ8462

Fujitsu-Takamisawa	Zettler
A	AZ850/AZ851/AZ8512
FBR10	AZ8462
FBR51	AZ947/AZ9471
FBR160	AZ942/AZ943/AZ942H
FBR210	AZ951/AZ952/ AZ954X/AZ954Y
FBR240	AZ822/AZ8222
FBR610–K	AZ755/AZ7555
FBR610	AZ697/AZ6975
FBR620	AZ733/AZ743/AZ7335
FRL	AZ971/AZ9711
FTR-B3	AZ852/AZ8521
FRT-C1	AZ8462
FTR-F1	AZ742/AZ743
FTR-F4G	AZ733W
FTR-H1	AZ761/AZ576
FTR-K1	AZ762/AZ576
FTR-K3	AZSR126
FTR-P2	AZ934/AZ935
FTR-LY	AZ6991
JS	AZ696/AZ6961/AZ6962
LZ	AZ8/AZ8A
MZ	AZ951X/AZ954X
NA	AZ8462
NY	AZ921
RA	AZ822/AZ8222/AZ832
RY	AZ822/AZ8222/AZ832
SY	AZ951Y/AZ955/ AZ957/AZ9571
VS	AZ697/AZ6975 AZ761/AZ762/AZ576

Hasco	Zettler
2KLT	AZ945
BAS-111	AZ952/AZ954Y
BAS-511	AZ952/AZ954Y
CAR	AZ973/AZ9731
CAS212	AZ822/AZ8222
HAS-115	AZ822/AZ8222
HAS-211	AZ952
HAS-212	AZ822/AZ8222 AZ830/AZ832
HAT-901	AZ2150/AZ21501/ AZ2151
HAT-904	AZ2800/AZ2850
HBS	AZ957/AZ9571
HPR	AZ940/AZ9405
KLT	AZ942/AZ943/AZ942H
KSD	AZ946
MHR	AZ9481
SLT	AZ947/AZ9471
SSD	AZ8/AZ8A
T	AZ850/AZ850P

Idec	Zettler
RW	AZ830/AZ832
RQ	AZ761/AZ762/AZ576 AZ742/AZ743
RH	AZ164/AZ1641 AZ165/AZ1651 AZ166/AZ1661
RCN	AZ942/AZ943
RT	AZ420

Magnecraft (MSD)	Zettler
Class 67	AZ420/AZ421/AZ431
Class 76/277	AZ697/AZ6975 AZ761/AZ762/AZ576 AZ733/AZ743/AZ7335 AZ755/AZ7555
Class 78	AZ164/AZ1641 AZ165/AZ1651
Class 90	AZ2110/AZ21101/ AZ2120/ AZ2150/AZ21501
Class 91	AZ2100/AZ21001 AZ2280/AZ22801
Class 92	AZ2800/AZ2850
Class 178	AZ942/AZ943/AZ942H
Class199/MGN	AZPRD
Class 272	AZ822/AZ8222
Class 232	AZ951/AZ952/ AZ954X/AZ954Y
Class 270	AZ942/AZ943
Class 281	AZ164/AZ1641 AZ165/AZ1651
Class 283	AZKUP
Class 725	AZ2700

Mid-Tex (CII)	Zettler
156/158	AZ164/AZ1641 AZ165/AZ1651 AZ166/AZ1661
157	AZKUP
190/MD	AZ822/AZ8222
191	AZ955/AZ957/AZ9571
258	AZ164/AZ1641 AZ165/AZ1651 AZ166/AZ1661
327	AZ830/AZ832 AZ830P/AZ832P
410	AZ420
500	AZ766
501	AZ770/AZ7705/AZ7709
496	AZ942/AZ943 /AZ942H
596	AZ943
597	AZ932
498	AZ755/AZ7555 AZ761/AZ762
491	AZ2100/AZ21001 AZ2120/ AZ2280/AZ22801
590	AZ2150AZ21501 AZ2110/
MQP	AZ850/AZ851/AZ8512
MN	AZ8462
MS	AZ952/AZ954Y
V4	AZ973/AZ9731
VM	AZ975/AZ976 AZ9751/AZ9761

American Zettler, Inc. offers this list of suggested equivalents by its own and other relay manufacturer's part numbers as a guideline for possible interchangeability. Because critical parameters such as coil resistance, must operate voltage, terminal footprint, etc. may differ slightly, a detailed comparison between data sheets should be done before selecting a particular relay as an exact cross reference. Due to rapid addition, deletion, and revision of its own and competitive relays, American Zettler, Inc. cannot guarantee the total accuracy of this list. Questionable interchangeability of products should be referred to American Zettler, Inc. for clarification.

AMERICAN ZETTLER, INC. www.azettler.com
75 COLUMBIA ALISO VIEJO, CA 92656 · PHONE: (949) 831-5000 FAX: (949) 831-8642 E-MAIL: SALES@AZETTLER.COM

Suggested Equivalents

NEC	Zettler
EA2	AZ850
EB2	AZ851
EC2/EE2	AZ8462/AZ8512
MR301	AZ942/AZ943/AZ942H
MR31	AZ942/AZ943/AZ942H
MR602	AZ822/AZ8222
MR602	AZ830/AZ832
MR602	AZ830P/AZ832P
MR612	AZ830/AZ832
	AZ830P/AZ832P
MR62	AZ822/AZ8222
	AZ830/AZ832
MR622	AZ830/AZ832
MR71	AZ697/AZ6975
	AZ761/AZ762/AZ576
MR72	AZ733/AZ743
UC2/UD2	AZ852

Omron	Zettler
G2R	AZ755/AZ7555
G2RK	AZ762P
G2RL	AZ742/AZ743/AZ576
	AZ761/AZ762
G4A	AZ769/AZ7695
G5C	AZ9481
G5L/LE	AZ942H/AZ943
G5N	AZ6951
G5Q	AZ940/AZ9405
G5V-1	AZ955/AZ957/AZ9571
G5V-2	AZ822/AZ8222
G6A	AZ830/AZ832
	AZ830P/AZ832P
G6B/C	AZ881/AZ888
G6D	AZ6951
G6H	AZ850/AZ851/AZ8512/AZ8521
G6K	AZ852/AZ8512
G6R	AZ696/AZ6961/AZ6962
G6S	AZ8462
G7L	AZ2700
G8H	AZ988
G8J	AZ974/AZ9741
G8JN	AZ973/AZ9731
G8JR	AZ979/AZ980
G8N	AZ989/AZ9891
G8P	AZ2110/AZ21101/
	AZ2111/
	AZ2270
	AZ2280/AZ22801
	AZ2150/AZ21501
	AZ2150W
G8PE	AZ987/AZ9871
G8PT	AZ2151/
	AZ21501
G8QN	AZ9471
G8SN	AZ9421A
G8W	AZ986
G8V	AZ984/AZ9841
G9E	AZHVDC
LY/MY	AZ164/AZ1641
	AZ165/AZ1651
	AZ166/AZ1661
MHS	AZ420/AZ421/
	AZ428/AZ429
MHQ	AZ2428/AZ2429

OEG	Zettler
OJ/OJE	AZ770/AZ7705/AZ7709
OMI/OMIH	AZ755/AZ7555
	AZ761/AZ762/AZ576
OMIT	AZ697/AZ6975
ORW	AZ942/AZ943/AZ942H
ORWH/PCE	AZ932
ORZ	AZ828/AZ8222
	AZ830/AZ832
OSA	AZ673
OUA/OUAT	AZ951/
	AZ954X
OUAZ	AZ951/
	AZ954X
OUDT/OUDTM	AZ8/AZ8A
OUDE	AZ8/AZ8A
OZ	AZ755/AZ7555
	AZ762/AZ576
OZF	AZ756
PCD	AZ9481
SRET	AZ164/AZ1641
	AZ165/AZ1651
	AZ166/AZ1661
SRW	AZ942/AZ943/AZ942H
SRU/SRUT	AZ942/AZ943

Schrack	Zettler
RP	AZ697/AZ6975
	AZ733/AZ743/AZ7335
	AZ761/AZ762/AZ576
	AZ763/AZ764
RS	AZ822/AZ8222
	AZ830/AZ832
	AZ830P/AZ832P
RT1	AZ762/AZ762P/AZ576
RT2/RTD/RTE	AZ742/AZ743/
	AZ761/AZ762
RY	AZ696/AZ6961/AZ6962
SNR	AZ6991
TD	AZ2110/AZ21101/
	AZ2111/
	AZ2150/AZ21501
	AZ2151/
TE	AZ2100/AZ21001
	AZ2280/AZ22801
TF	AZ942/AZ943/AZ942H
TN	AZ942/AZ943
TP	AZ8/AZ8A
ZD	AZ2110/AZ21101
	AZ2111
	AZ2150/AZ21501
	AZ2151
ZF	AZ942/AZ943
ZK	AZ420/AZ421/
	AZ428/AZ429/
	AZ431/AZ439
ZL	AZ420/AZ421/
	AZ428/AZ429/
	AZ431/AZ439

Sanyou	Zettler
DSY2Y	AZ822/AZ8222
SARL	AZ973/AZ9731
SARS	AZ988
SFK	AZ769/AZ7695
SJ	AZ770/AZ7705/AZ7709
SLA	AZ2150/AZ21501
SLC	AZ2100/AZ21001

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Suggested Equivalents

Sanyou	Zettler
SMA	AZ673
SME/SMET	AZ164/AZ1641 AZ165/AZ1651 AZ166/AZ1661
SRB	AZ9375 SRD/
SRDH	AZ942/AZ943
SYS1K	AZ954X/
SYS1	AZ954Y

Song Chuan	Zettler
109	AZ989/AZ9891J
110	AZSR126
202/202HT	AZ9375
207/875	GP10
301	AZ984/AZ9841
303	AZ992
307/899	AZ943
507/888H	AZ761/AZ762/AZ576 AZ742/AZ743
731/	AZKUP
792	AZ973/AZ9731
792H	AZ973/AZ9731
793	AZ697/AZ6975 AZ755AZ7555 AZ733/AZ7335
801H/A	AZ942/AZ943
812H	AZ932/AZ943/AZ942H
812HM	AZ942A/AZ9421A
821	AZ769/AZ7695
822	AZ970/AZ9701 AZ971/AZ9711
832A	AZ2150/AZ21501
833H	AZ942/AZ/942H/AZ943
834	AZ766
835	AZ770/AZ7705/AZ7709
841	AZ2702
842	AZ954Y
842A	AZ954X
845	AZ742/AZ743/ AZ761/AZ762/AZ576
855AWP	AZ2270/ AZ2280
861	AZ975/AZ9751 AZ976/AZ9761
871	AZ988
882	AZ6991
892/892H	AZ940/AZ9405
895	AZ2100/AZ21001
896	AZ9731
897	AZ979/AZ980 898 AZ986
SCL/SCL-1	AZ164/AZ1641 AZ165/AZ1651
SCLA	AZ164/AZ1641 AZ165/AZ1651
SCLB/SCLD	AZ164/AZ1641 AZ165/AZ1651

Telemecanique	Zettler
DR	AZ822/AZ8222
DRS	AZ830/AZ832
T154	AZ420/AZ421/ AZ428/AZ429/ AZ431/AZ439
T163	AZ420/AZ421/ AZ428/AZ429/ AZ431/AZ439

Tyco (P&B)	Zettler
3100	XMC0
K10	AZ164/AZ1641 AZ165/AZ1651 AZ166/AZ1661
KUP	AZKUP
PCJ	AZ9375
PRD	AZPRD
PCFN	AZSR126
RKA/RKS	AZ697/AZ6975 AZ742/AZ743 AZ761/AZ762/AZ576 AZ763/AZ764 AZ755/AZ7555
R10	AZ420/AZ421/ AZ428/AZ429/ AZ431/AZ439
R10R	AZ2428/AZ2429
RT	AZ742/AZ743/AZ576 AZ761/AZ762
SSRT	SGX-1505FB
TB1	AZ989/AZ9891J
T70	AZ942/AZ943
T7C	AZ942/AZ943/AZ942H
T7N	AZ942/AZ943
T72	AZ942/AZ943
T72J/K/M	AZ942A/AZ9421A/ AZ947/AZ9471
T73	AZ8/AZ8A
T75	AZ696/AZ6962
T77	AZ770/AZ7705/AZ7709
T81	AZ951/AZ954X
T82	AZ822/AZ8222
T83	AZ830/AZ832
T85	AZ822/AZ8222
T90	AZ2110/AZ21101 AZ2111/AZ2150/ AZ21501 AZ2151
T91	AZ2100/AZ21001 AZ2101/ AZ2200
T9A	AZ2100/AZ21001 AZ2150/AZ21501 AZ2270/AZ2280/ AZ22801
T92	AZ2800/ AZ2850
V23026	AZ956/AZ956P
V23042	AZ830/AZ832
V23084	AZ934/AZ935
V23086	AZ987/AZ9871
V23079	AZ8462
V23105	AZ822/AZ8222
V23106	AZ850/AZ851/AZ8512
VF4/23134A	AZ973/AZ9731 AZ974/AZ9741
VF7/23134J	AZ979/980
VF28	AZ986
VJ28	AZ984/AZ9841
VFM	AZ988
VKM/23072	AZ975/AZ9751 AZ976/AZ9761
VKP	AZ9701/AZ9711
VM	AZ984/AZ9841

AMERICAN ZETTLER, INC. www.azettler.com
75 COLUMBIA ALISO VIEJO, CA 92656 · PHONE: (949) 831-5000 FAX: (949) 831-8642 E-MAIL: SALES@AZETTLER.COM



AMERICAN ZETTLER, INC.
2410 Birch St
Vista, CA 92081
TEL: 949-831-5000
FAX: 949-831-8642
E-Mail: sales@azettler.com
WEB: www.azettler.com

ZETTLER MAGNETICS, INC.
2410 Birch St
Vista, CA 92081
TEL: 949-360-5838
FAX: 949-360-5839
E-Mail: sales@zettlermagnetics.com
WEB: www.zettlermagnetics.com

AZ DISPLAYS, INC.
2410 Birch St
Vista, CA 92081
TEL: 949-360-5830
FAX: 949-360-5839
E-Mail: sales@azdisplays.com
WEB: www.azdisplays.com

ZETTLER CONTROLS, INC.
72410 Birch St
Vista, CA 92081
TEL: 949-360-5840
FAX: 949-360-5839
E-Mail: sales@zettlercontrols.com
WEB: www.zettlercontrols.com



ZETTLER ELECTRONICS GmbH - GERMANY
Junkersstrasse 3
82178 Puchheim
Germany
TEL: +49 89 800 97 0
FAX: +49 89 800 97 200
WEB: www.zettlerelectronics.com



ZETTLER ELECTRONICS (HK) LTD.
Unit 2A, Wing Tai Centre (Front Block)
No. 12 Hing Yip Street, Kwun Tong,
Kowloon, Hong Kong
TEL: +852 2375 1288
FAX: +852 2375 7433
E-mail: sales@zettlerhk.com
WEB: www.zettlerhk.com



NINGBO ZETTLER ELECTRONICS CO., LTD
No. 5 Shuntai Road
Yangming Technological Park
Yuyao City, Zhejiang
China 31540
TEL: +86 574 6250 2191
FAX: +86 574 6250 2177
WEB: www.zettlernb.com



ZETTLER ELECTRONICS POLAND sp.z.o.o.
Osadnikow Wojskowych 40
68-200 Zary
Poland
TEL: +48 68 47 91 437
FAX: +48 68 47 91 439
WEB: www.zettlerelectronics.pl



XIAMEN ZETTLER ELECTRONICS CO., LTD
6-7/F Yinfeng Building, No. 48-50 Huli Ave
Huli District
Xiamen 361006
China
TEL: +86 592 2650 988
FAX: +86 592 2650 900
WEB: www.zettlercn.com



ZETTLER ELECTRONICS SHANGHAI
14/F New HongQiao Jieyun Bldg.
No.2, Laneleoo,
Shanghai 200051
China
TEL: +86 21 5100 1736
FAX: +86 21 5206 6921
WEB: www.zettlercn.com

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