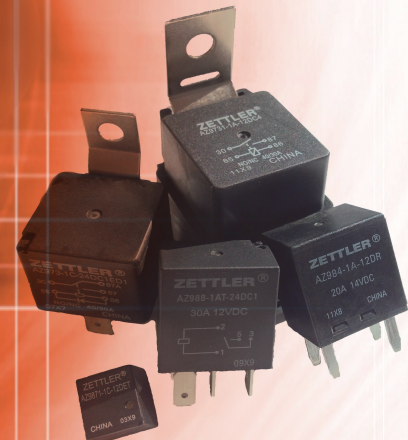
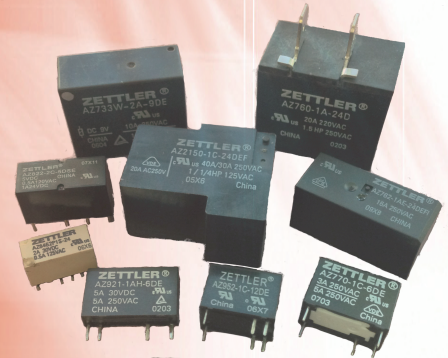


# AMERICAN ZETTLER, INC.

*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](http://www.azettler.com)

Revised: 11/12/2015

# Selection Guide

Terminal			Coil			Switching Current																
P C B	S M T	Q C	D C	A C	Latch	Relay Series	Contact	Page	5	10	15	20	25	30	40	50		80	100			
						AZ9571	1C	2											1A	S I G N A L		
						AZ957	1C	2											1A			
						AZ850	2C	2											2A			
						AZ851	2C	3											2A			
						AZ8512	2C	3											2A			
						AZ830	2C	3											2A			
						AZ954X/Y	2C	3											2A			
						AZ822	2C	4											2A			
						AZ8222	2C	4											2A			
						AZ826	2C	4											2A			
						AZ8521	2C	5											2A			
						AZ8462	2C	5											2A			
						AZ832	2C	5											3A			
						AZ921	1A	6											5A		R E L A Y S	
						AZ9201	1A	6											5A			
						AZ6951	1A	6											5A			
						AZ6991	1A, 1C	7											6A			
						AZ946	2C	7											6A			
						AZ881	1A,2A,1A+1B	7											8A			
						AZ888	1A,2A,1A+1B	7											8A			
						AZ673	1A, 1C	8											10A			
						AZ767	1C	8											10A			
						AZ6975	1A, 1C	8											10A			
						AZ742	2A, 2C	9											10A	M I D - R A N G E		
						AZ743	2A, 2B, 2C	9											10A			
						AZ9405	1A, 1C	9											10A			
						AZ6962	1C	9											10A			
						AZ7671	1A, 1C	10											10A			
						AZ7705	1A	10											10A			
						AZ7709	1A	10											10A			
						AZ770	1A, 1C	11											10A			
						AZ880	1A, 2A, 1A+1B	11											10A			
						AZ8A	1A, 1C	11											10A			
						AZ9375	1A	11											10A		P O W E R	
						AZ733	2A, 2C	12											12A			
						AZ733W/WC	2A, 2C	12											10A			
						AZ7335	2A, 2C	12											8A			
						AZ761	1A, 1B, 1C	13											12A			
						AZ763	1A, 1C	13											12A			
						AZ943	1A, 1C	13											15A			
						AZ943S	1A, 1C	13											15A			
						AZ576	1A,1B,1C	14											16A	R E L A Y S		
						AZ762	1A,1B,1C	14											16A			
						AZ762H	1A,1B,1C	14											16A			
						AZ742H	1A, 1C	15											16A			
						AZ932	1A, 1C	15											15A			
						AZ755	1A,1B,1C	15											20A			
						AZ7555	1A, 1C	15											20A			
						AZ756	1A	16											20A			
						AZ757	1A	16											20A			
						AZ762F	1A, 1B	16											20A			
						AZ9321	1A, 1C	17											20A			
						GP10	1A,1B,1C	17											20A			







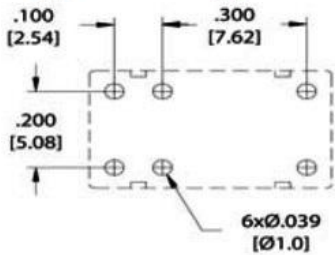
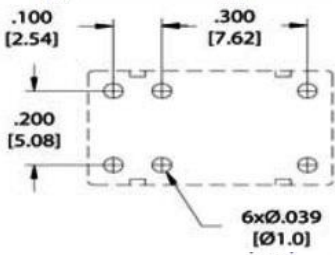
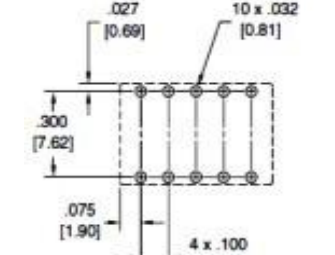
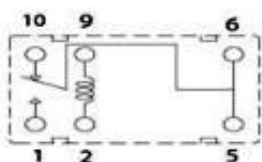
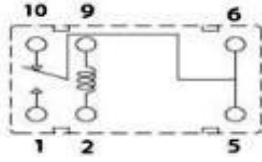
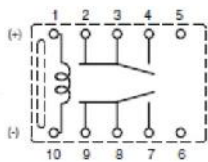
# Selection Guide


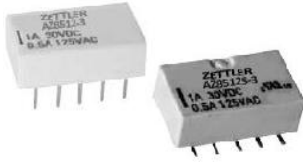






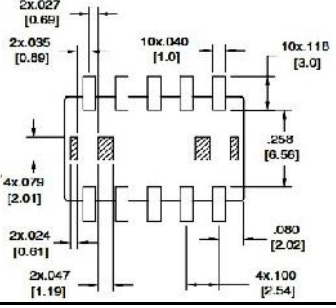
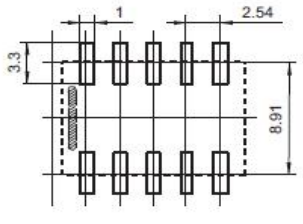
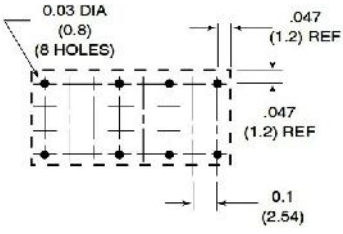
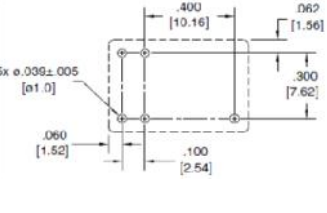
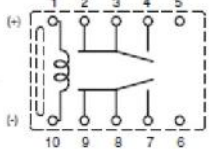
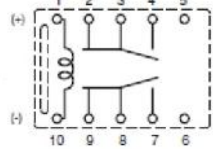
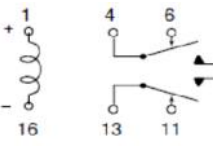
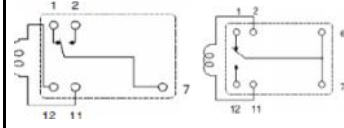
Terminal			Coil			Switching Current														
P C B	S M T	Q C	D C	A C	Latch	Relay Series	Contact	Page	5	10	15	20	25	30	40	50		80	100	
						AZ7695	1A	17						25A						H
						AZ2200	1A,1B,1C	17							30A					I
						AZ2270	1A,1B,1C	18							30A					G
						AZ2280	1A,1B,1C	18							30A					H
						AZ2310	1A	18							30A					P
						AZ2700	1X, 2X	19							30A					O
						AZ2701	1X, 2X	19							30A					W
						AZ2702	1X, 2X	19							30A					E
						AZ2703	1X, 2X	19							30A					R
						AZ2704	1X, 2X	20							30A					
						AZ2705	1X, 2X	20							30A					R
						AZ2800	2A, 2C	20							30A					E
						AZ2850	2A, 2C	21							30A					L
						AZ2150	1A,1B,1C	21								40A				A
						AZ2100	1A,1B,1C	21								40A				Y
						AZ2110/AZ2120	1A,1B,1C	21								40A				S
						AZ850/AZ851	2C	22	1A											
						AZ8521	2C	22	2A											
						AZ852	2C	22	2A											L
						AZ880	1A,2A,1A+1B	23				10A								A
						AZ832P	2C	23	3A											T
						AZ881	1A,2A,1A+1B	23				8A								C
						AZ888	1A,1C,1A+1B	24				8A								H
						AZ762P	1A, 1B, 1C	24					20A							I
						AZ21501P	1A, 1B, 1C	24								50A				N
						AZ2500	1A	25								60A				G
						AZ2501	1A, 1C	25								50A				
						AZ2505	1A, 1B	25									120A			
						AZ420	2C,4C,6C	26			5A									P
						AZ164	1C,2C,3C,4C	26				15A								L
						AZ1641	1C,2C,3C,4C	26					20A							U
						AZ165	1C,2C,3C,4C	27					15A							G
						AZ1651	1C,2C,3C,4C	27						20A						-
						AZ166	1C,2C,3C,4C	27					15A							I
						AZ1661	1C,2C,3C,4C	27						20A						N
						AZKUP	1C,2C,3C	28									31A			
						AZ733W/WC	2A, 2C	28				10A								S
						AZSR126	1A	28					13A							O
						AZ2150W	1A	29							30A					L
						AZ2704	1X, 2X	29							30A					A
						AZDC	1A, 1X	29												R
						AZSR235/AZ250	1A	29									50A			







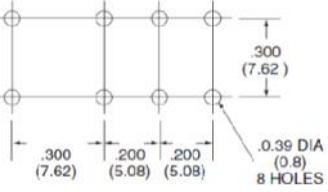
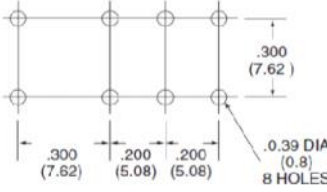
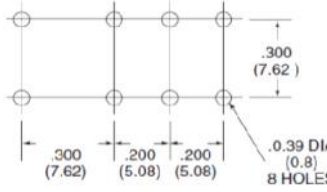
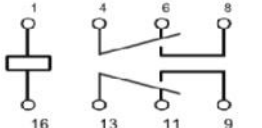
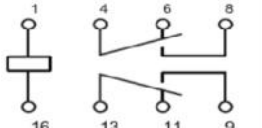
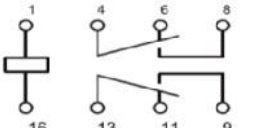


# Selection Guide

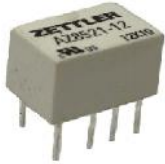





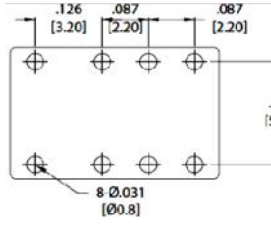
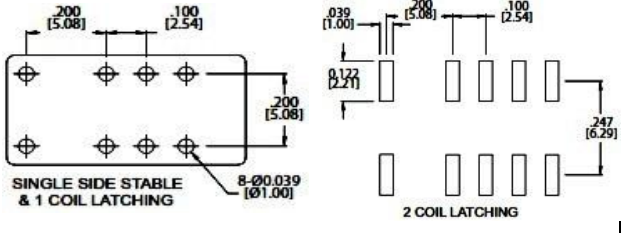
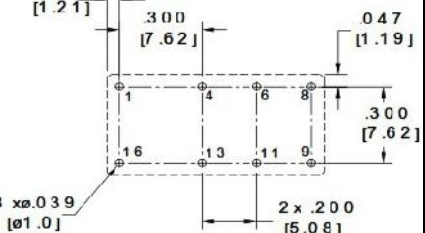
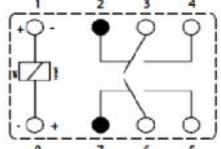
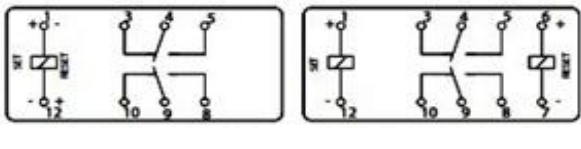
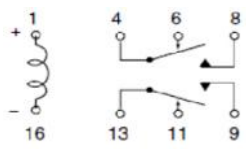
Terminal			Coil			Switching Current														
P C B	S M T	Q C	D C	A C	Latch	Relay Series	Contact	Page	5	10	15	20	25	30	40	50		80	100	
						AZ934	1C, 2C	30							25A					A U T O M O T I V E  R E L A Y S
						AZ935	1C, 2C	30							25A					
						AZ9471	1C	30							25A					
						AZ975/AZ976	1A,1B,1C	31									60A			
						AZ989	1A, 2C	31						25A						
						AZ987	1A,1C,2A,2C	31								30A				
						AZ992	1A, 1C	31										100A		
						AZ977	1A, 1C	32					20A							
						AZ984	1A, 1C	32					20A							
						AZ9841	1A, 1C	32								40A				
						AZ988	1A, 1C	33								30A				
						AZ973	1A,1C	33								40A				
						AZ974	1A, 1C	33								40A				
						AZ9731F	1A, 1C	33								30A				
						AZ9731T	1A, 1C	34									50A			
						AZ986	1A, 1C	34								40A				
						AZ970/AZ971	1A,1B,1C	34									45A			
						AZ9801	1A	35									70A			
						AZ979	1A,1B,1C	35										80A		
						AZ980	1A,1B,1C	35										80A		
						AZ983	1A,1B,1C	35										80A		
						AZPRD	1A,1C,1X,1Y, 2A,2C	36										50A		C O N T A C T O R S
						XMCO	1-3 Poles N.O.	36											90 FLA	

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				
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	100M (at 500VDC)	100M (at 500VDC)	1000M (at 500VDC)	
Dielectric Strength	<b>Contact to Coil</b>	1000VAC 1 min	1250VAC 1 min	1000VAC 1 min
	<b>Open Contacts</b>	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)				







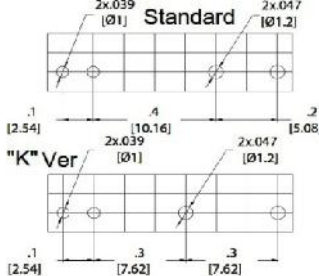
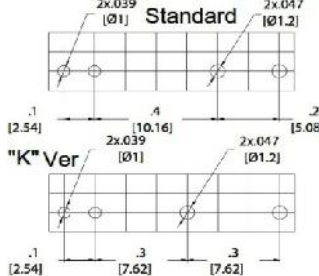
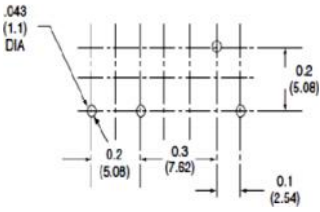

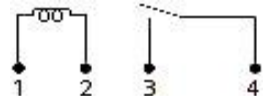
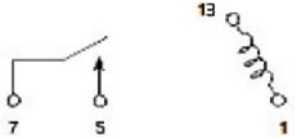
Signal Printed Circuit Board Relays			
AZ851	AZ8512	AZ830	AZ954X/Y
			
14.2 x 9.3 x 6.2	14 x 9 x 5.4	20 x 9.9 x 9.9	15.8 x 10.8 x 11.8
SMT with "L" terminal Meets FCC part 68.302 Monostable or bistable	THT or SMT ("L" terminal) Meets FCC part 68.302 Monostable or bistable	Polarized coil Meets FCC part 68.302 Meets FCC part 68.304 Monostable or bistable	Subminiature size Extremely low cost Sensitivite coil options
			
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
1000M (at 500VDC)	1000M (at 500VDC)	1000M (at 500VDC)	100M (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				
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	1000M (at 500VDC)	1000M (at 500VDC)	1000M (at 500VDC)	
Dielectric Strength	<b>Contact to Coil</b>	1000VAC 1 min	1500VAC 1 min	1500VAC 1 min
	<b>Open Contacts</b>	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)				









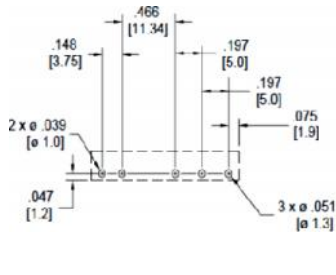
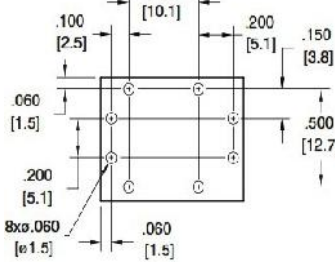
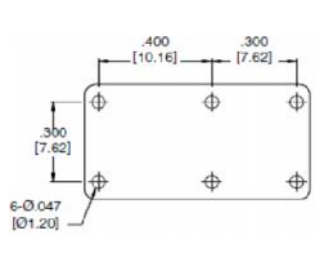
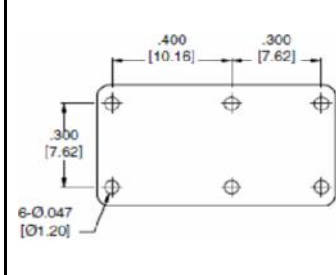
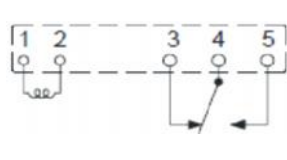
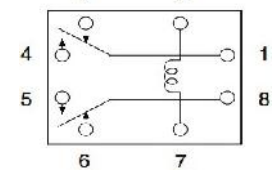
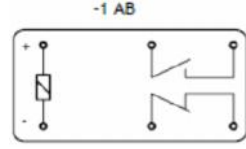
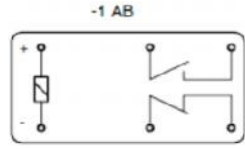
## Signal Printed Circuit Board Relays







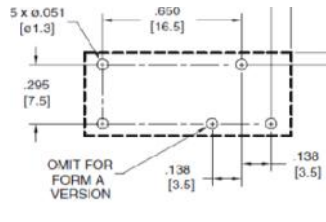
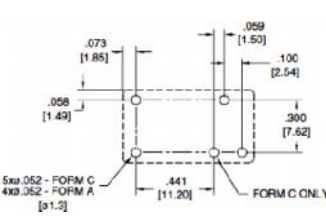
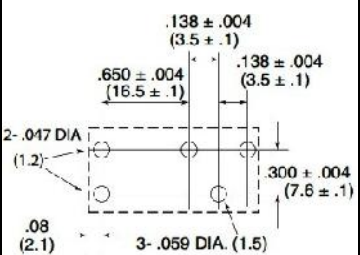
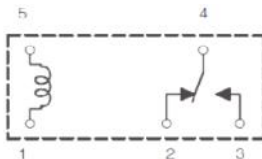
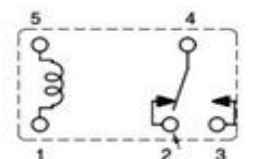
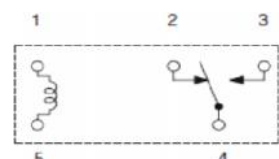
AZ8521	AZ8462	AZ832
		
10 x 6.5 x 5.4	15.2 x 7.7 x 9.2	20.2 x 10.2 x 10.7
Surge voltage up to 2.5kV SMT and DIP types available Low power consumption Monostable or bistable	Meets EN60950/EN41003 Surge voltage to 2.5kV Meets FCC Part 68 and Telecordia Thru-hole or SMT	Fits 16 pin IC socket Meets FCC part 68.302 Meets FCC part 68.304 Monostable or bistable
		
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
<b>2A</b>	<b>2A</b>	<b>3A</b>
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
1000M (at 500VDC)	1000M (at 500VDC)	1000M (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
		
		











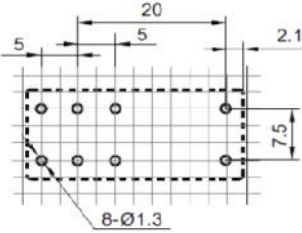
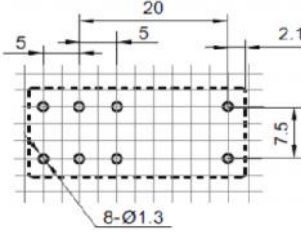
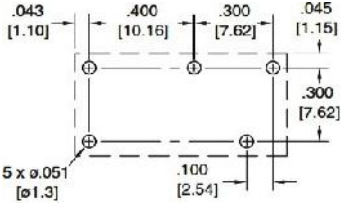
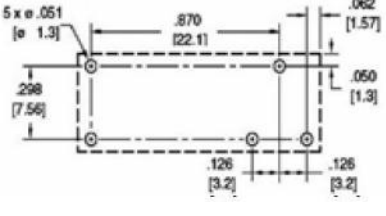
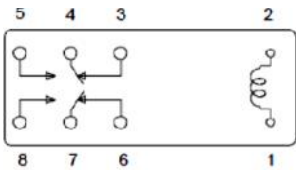
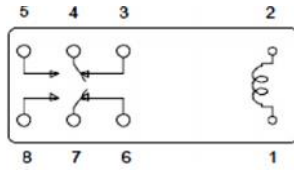


Mid Power relays				
SERIES	AZ921	AZ9201	AZ6951	
				
Dimensions LxWxH mm	20.3 x 5.3 x 12.8	20.3 x 5.3 x 12.8	17.5 x 6.4 x 12.4	
FEATURES	0.16 sq inch of PCB area 5.3mm wide SIP package 3kVrms contact / coil	High sensitivity Slim SIP package 2kVrms contact / coil	0.18 sq. in of PCB Only 6.40mm wide Dielectric strength 3kVrms	
Approvals				
Contact Arrangement	SPST-NO	SPST-NO	SPST-NO	
Contact Material	AgNi, AgSnO <sub>2</sub> , Au available	Ag alloy with Au clad	AgSnO <sub>2</sub> 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	1000M (at 500VDC)	1000M (at 500VDC)	1000M (at 500VDC)	
Dielectric Strength	<b>Contact to Coil</b>	3000VAC 1 min	2000VAC 1 min	3000VAC 1 min
	<b>Open Contacts</b>	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)				







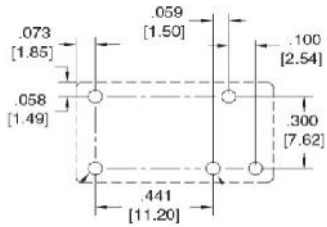
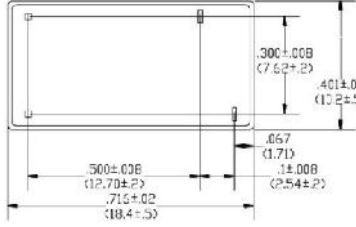
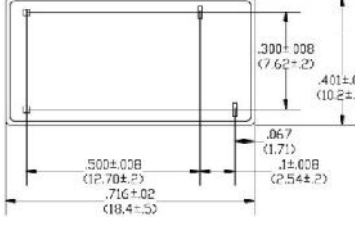
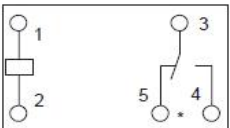


Mid Power relays

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.
 VDE			
SPST-NO, SPDT	DPDT	SPST-NO, DPST-NO or NC	SPST-NO, DPST-NO or NC
AgNi, AgSn, Au plating available	AgCdO <sub>2</sub> 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
<b>6A</b>	<b>6A</b>	<b>8A</b>	<b>8A</b>
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
100M (at 500VDC)	100M (at 500VDC)	1000M (at 500VDC)	1000M (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	 TUV		 TUV	
Contact Arrangement	SPST-NO, SPDT	SPDT	SPST-NO, SPDT	
Contact Material	AgCdO <sub>2</sub> , AgSnO <sub>2</sub>	AgCdO <sub>2</sub> , AgNi	AgSnO <sub>2</sub> , 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	100M (at 500VDC)	1000M (at 500VDC)	1000M (at 500VDC)	
Dielectric Strength	<b>Contact to Coil</b>	4000VAC 1 min	2500VAC 1 min	5000VAC 1 min
	<b>Open Contacts</b>	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)				









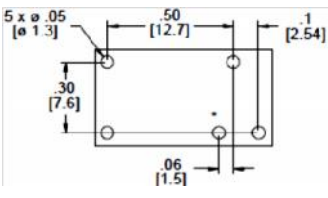
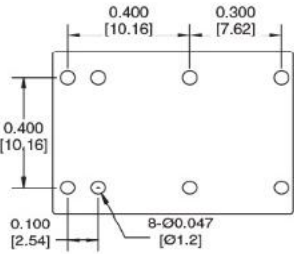
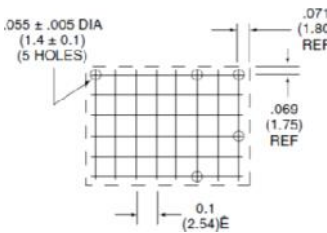
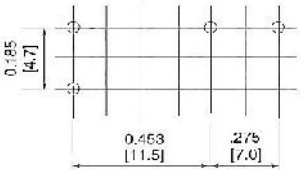
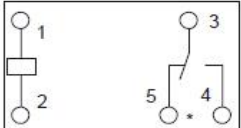

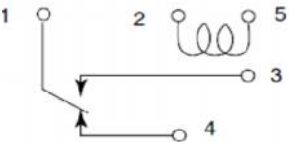

## Mid Power relays







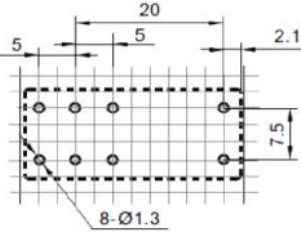
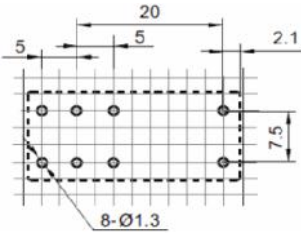
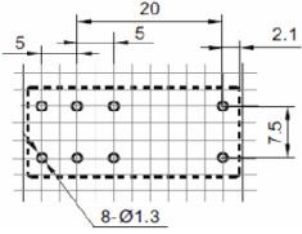
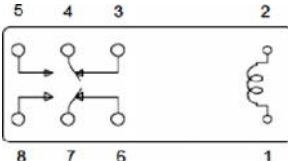
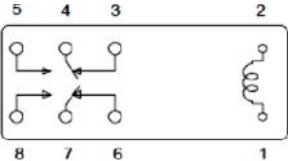
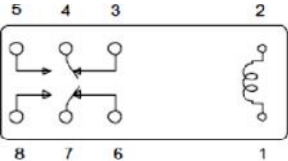
AZ742	AZ743	AZ9405	AZ6962
			
29 x 12.7 x 15.7	29.5 x 13.2 x 16.2	19.8 x 9.9 x 15.2	28.5 x 10.1 x 12.5
(PTI/CTI) 250 Dielectric strength 5kVrms Low height: 15.7mm AC and DC coils Isolation spacing >10mm	Dielectric strength 5kVrms 10A switching each pole Isolation spacing >10mm AC and DC coils Class F insulation avail.	Dielectric strength 4kVrms 10A switching Class F insulation avail.	High sensitivity, 0.23W Dielectric strength 5kVrms Proof tracking index (PTI/CTI) 250
 VDE	 VDE	 TUV	 VDE
DPST-NO, DPDT	DPST-NO or NC, DPDT	SPST-NO, SPDT	SPDT
AgNi, AgSnO <sub>2</sub> , Au plating available	AgCdO <sub>2</sub> , AgSnO <sub>2</sub> , AgNi	AgSnO <sub>2</sub>	AgSnO <sub>2</sub> , 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 M (at 500VDC)	1000M (at 500VDC)	1000M (at 500VDC)	1000M (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 sensitive coils Small footprint 10A switching
Approvals			
Contact Arrangement	SPST-NO, SPDT	SPST-NO	SPST-NO
Contact Material	AgCdO <sub>2</sub>	Ag alloy, AgCdO <sub>2</sub>	AgCdO, AgSnO <sub>2</sub> , 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	1000M (at 500VDC)	1000M (at 500VDC)	1000M (at 500VDC)
Dielectric Strength	<b>Contact to Coil</b> 4000VAC 1 min	4000VAC 1 min	4000VAC 1 min
Strength	<b>Open Contacts</b> 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)			









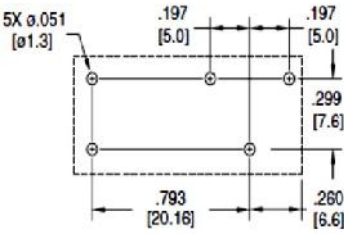
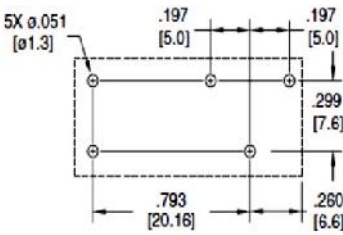
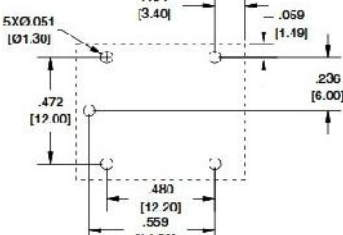
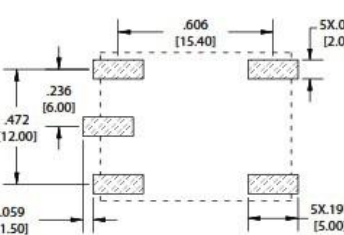
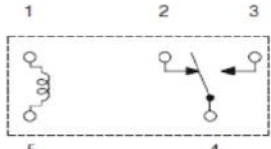
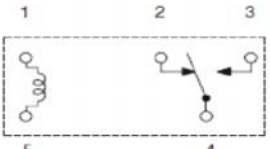
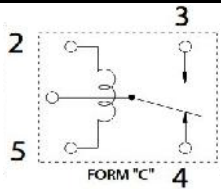
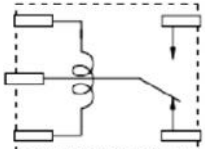







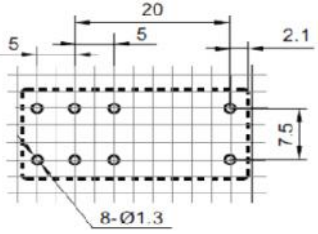
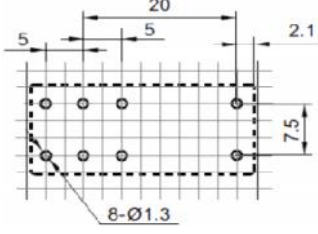
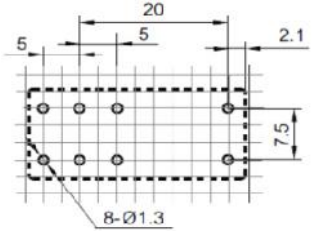
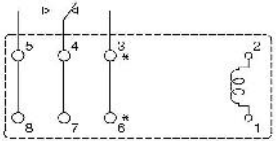
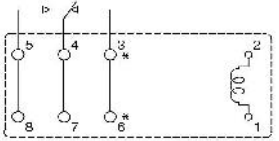
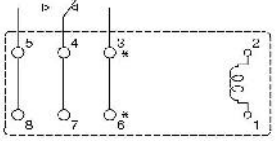
## Mid Power relays

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.
 VDE			 TUV
SPST-NO, SPDT	SPST-NO, DPST-NO or NC	SPST-NO, SPDT	SPST-NO
AgNi, AgSnO <sub>2</sub> , Au available	AgNi, AgSnO <sub>2</sub> , 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
1000M (at 500VDC)	1000M (at 500VDC)	1000M (at 500VDC)	1000M (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
			
			









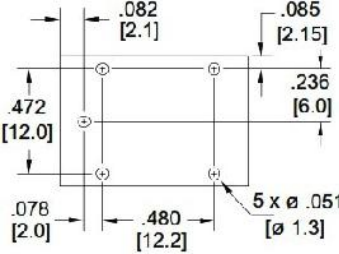
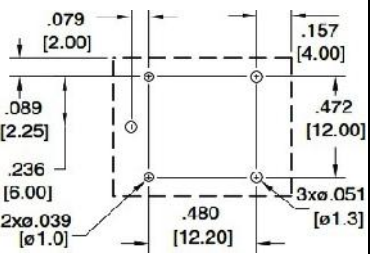
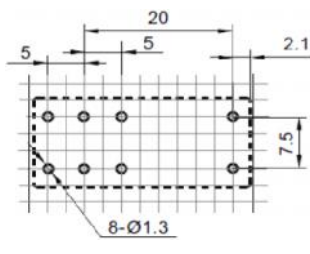
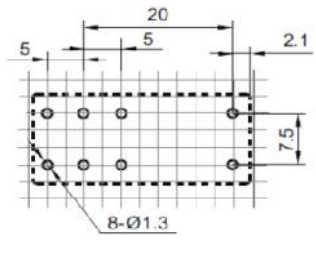
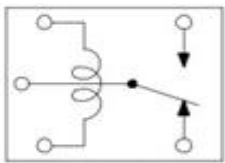
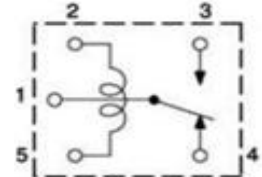
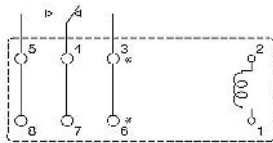
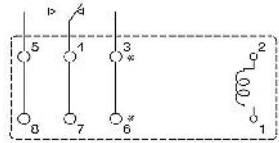
Mid Power relays			
SERIES	AZ733	AZ733W/AZ733WC	AZ7335
			
Dimensions LxWxH mm	29 x 13 x 25.9	29.0 x 13 x 25.9	29.2 x 12.8 x 20.6
FEATURES	Dielectric strength 5kVrms 12A switching Isolation spacing >8mm	Dielectric strength 5kVrms Wide gap: 1.5mm or 2mm 10A switching Class F insulation avail.	Low cost Dielectric strength 5kVrms Standard / sensitive coils 10kVrms surge withstand Class F insulation avail.
Approvals			
Contact Arrangement	DPST-NO, DPDT	DPST-NO, DPDT	DPST-NO, DPDT
Contact Material	AgCdO, AgSnO <sub>2</sub> , AgNi, Au plating available	AgCdO, AgSnO <sub>2</sub> , AgNi, Au available	AgSnO <sub>2</sub>
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	1000M (at 500VDC)	1000M (at 500VDC)	1000M (at 500VDC)
Dielectric Strength	Contact to Coil	5000VAC 1 min	5000VAC 1 min
	Open Contacts	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







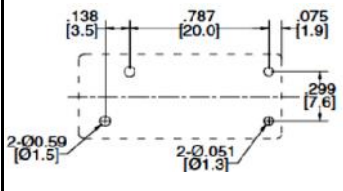
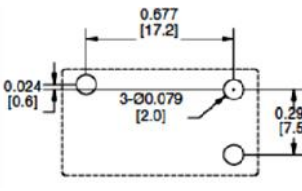
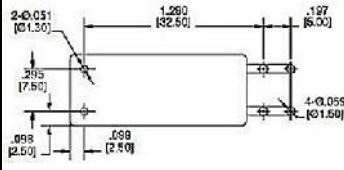
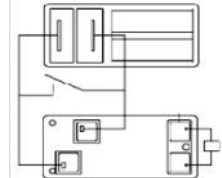
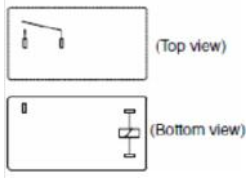

AZ761	AZ763	AZ943	AZ943S
			
29.5 x 13.2 x 16.2	29 x 15.7 x 12.7	19.3 x 15.5 x 16	19.3 x 15.8 x 15.3
Dielectric strength 5kVrms Standard / sensitive coils 12A switching Class F insulation avail. 3.5mm or 5.0mm pins	Dielectric strength 5kVrms 12A switching AC and DC coils	Low profile package 15A switching Class F insulation avail.	SMT package 15A switching Class F insulation avail.
 VDE	 VDE	 TUV	 TUV
SPST-NO or NC, SPDT	SPST-NO, SPDT	SPST-NO, SPDT	SPST-NO, SPDT
AgCdO, AgSnO <sub>2</sub> , AgNi, Au plating available	AgNi, Au plating available	AgSnO <sub>2</sub> , Au available	AgSnO <sub>2</sub> , Au available
360W / 3324VA	360W / 3000VA	210W / 2770VA	210W / 2770VA
150VDC / 400VAC	300VDC / 400VAC	30VDC / 300VAC	30VDC / 300VAC
<b>12A</b>	<b>12A</b>	<b>15A</b>	<b>15A</b>
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
1000M (at 500VDC)	1000M (at 500VDC)	100M (at 500VDC)	100M (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
			
			



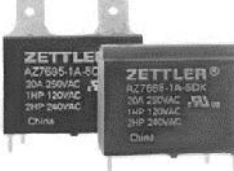





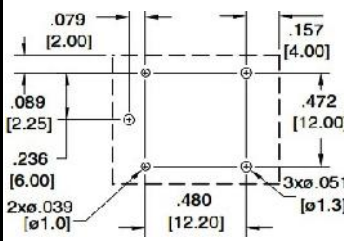
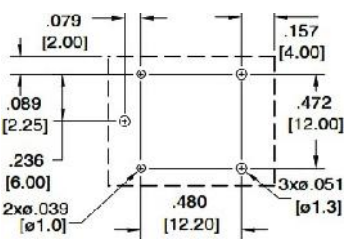
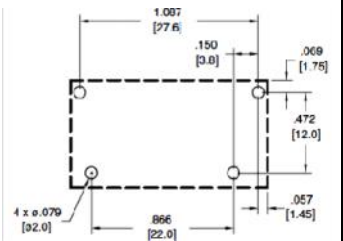
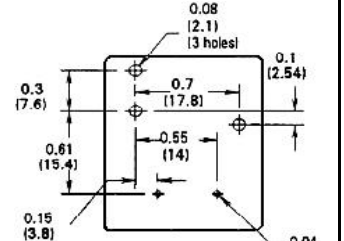
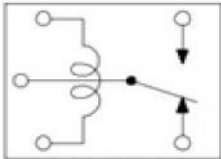
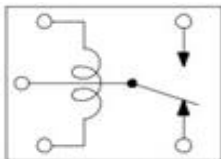
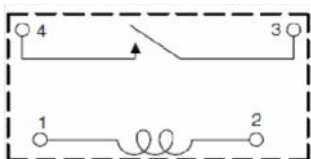
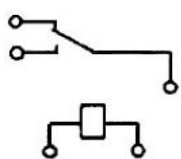
Mid Power relays			
SERIES	AZ576	AZ762	AZ762H
			
Dimensions LxWxH mm	29.5 x 13.2 x 16.2	29.5 x 13.2 x 16.2	29 x 12.7 x 15.7
FEATURES	20A switching, 50K cycles High inrush to 120A 105°C operating temp. Class F insulation std.	Dielectric strength 5kVrms AC and DC coils High inrush to 80A Isolation spacing >10mm	105°C operating temp. Dielectric strength 5kVrms DC coil only Isolation spacing >10mm
Approvals	 TUV	 VDE	 VDE
Contact Arrangement	SPST-NO or NC, SPDT	SPST-NO or NC, SPDT	SPST-NO or NC, SPDT
Contact Material	Ag alloy	AgCdO, AgSnO <sub>2</sub> , AgNi, Au	AgNi, Au
Max Switching Power	510W / 5540VA	480W / 4432VA	4000VA
Max Switching Voltage	30VDC / 277VAC	150VDC / 400VAC	125VDC / 440VAC
Max Switching Current	<b>20A</b>	<b>16A</b>	<b>16A</b>
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	1000M (at 500VDC)	1000M (at 500VDC)	1000M (at 500VDC)
Dielectric Strength	<b>Contact to Coil</b>	5000VAC 1 min	5000VAC 1 min
	<b>Open Contacts</b>	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)			







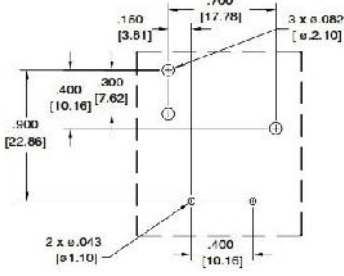
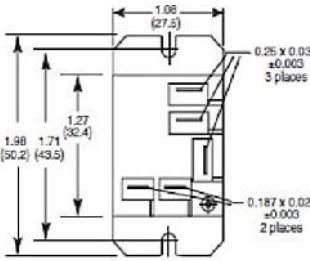
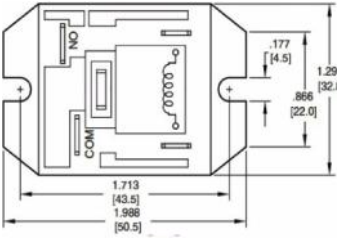
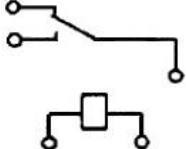
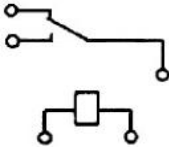
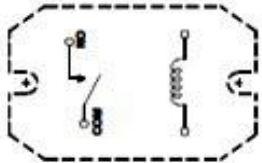
## Mid Power relays

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.
 VDE		 TUV	 TUV
SPST-NO, SPDT	SPST-NO, -NC, SPDT	SPST-NO or NC, SPDT	SPST-NO, SPDT
AgCdO, AgSnO <sub>2</sub>	AgSnO <sub>2</sub> (Au plating optional)	AgCdO, AgSnO <sub>2</sub>	AgSnO <sub>2</sub>
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
100M (at 500VDC)	100M (at 500VDC)	1000M (at 500VDC)	1000M (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
			
			









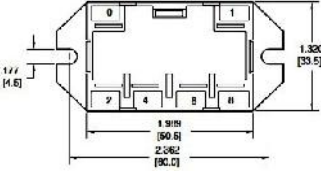
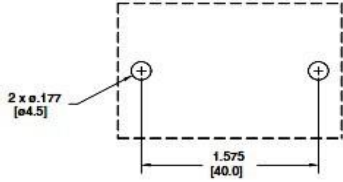
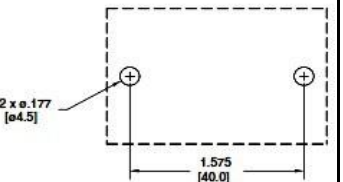
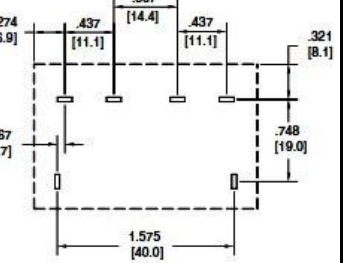
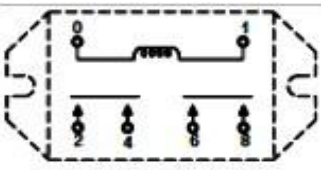
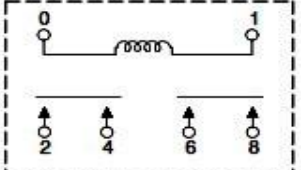
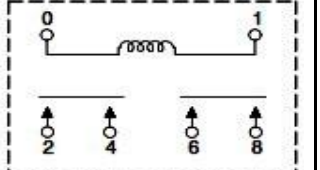
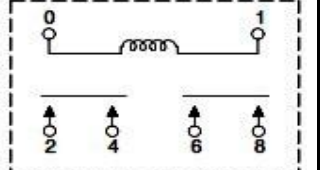








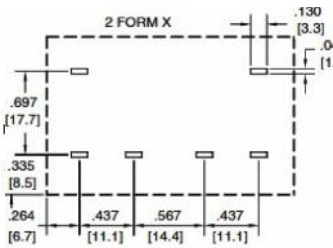
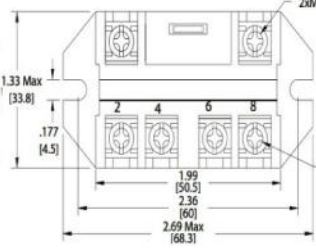
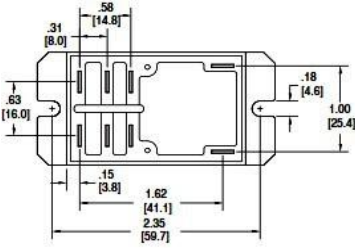
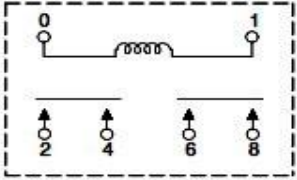
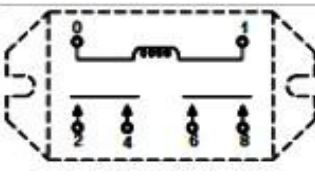
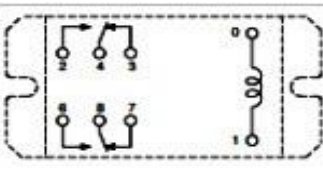
Mid Power relays			
SERIES	AZ756	AZ757	AZ762F
			
Dimensions LxWxH mm	29.4 x 13 x 24.6	22.8 x 12.3 x 24.4	29 x 13 x 16
FEATURES	Dielectric strength 5kVrms Isolation spacing >8mm	Dielectric strength 5kVrms 10kV surge	Dielectric strength 5kVrms 10kV surge High temperature 125°C
Approvals	 TUV		 VDE
Contact Arrangement	SPST-NO	SPST-NO	SPST-NO or NC
Contact Material	AgSnO <sub>2</sub>	AgSnO <sub>2</sub>	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	1000M (at 500VDC)	1000M (at 500VDC)	1000M (at 500VDC)
Dielectric Strength	<b>Contact to Coil</b>	5000VAC 1 min	5000VAC 1 min
	<b>Open Contacts</b>	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.
 TUV	 TUV	 TUV	 VDE
SPST-NO, SPDT	SPST-NO or NC, SPDT	SPST-NO	SPST-NO or NC, SPDT
AgSnO <sub>2</sub> , AgNi, Au available	AgSnO <sub>2</sub>	AgSnO <sub>2</sub>	AgCdO, AgSnO <sub>2</sub>
480W / 4709VA	3840VA	6250VA	840W / 8310VA
30VDC / 277VAC	250VAC	30VDC / 250VAC	28VDC / 277VAC
<b>20A</b>	<b>20A</b>	<b>25A</b>	<b>30A</b>
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
100M (at 500VDC)	250M (at 500VDC)	1000M (at 500VDC)	1000M (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 OCT 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	 VDE(DC coil)	 VDE(DC coil)	
Contact Arrangement	SPST-NO or NC, SPDT	SPST-NO or NC, SPDT	SPST-NO
Contact Material	AgSnO <sub>2</sub> , AgCdO <sub>2</sub>	AgSnO <sub>2</sub> , AgCdO <sub>2</sub>	AgSnO <sub>2</sub>
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	1000M (at 500VDC)	1000M (at 500VDC)	1000M (at 500VDC)
Dielectric Strength	<b>Contact to Coil</b>	4000VAC 1 min	4000VAC 1 min
	<b>Open Contacts</b>	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)			









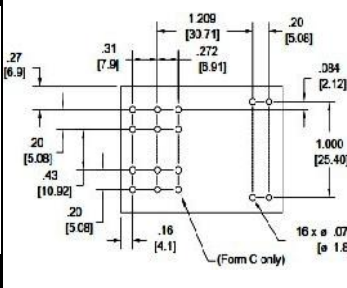
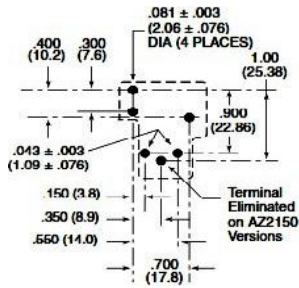
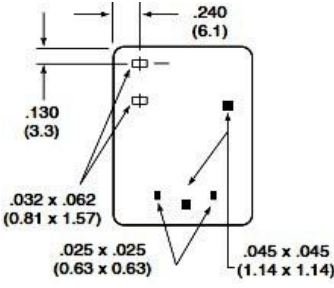
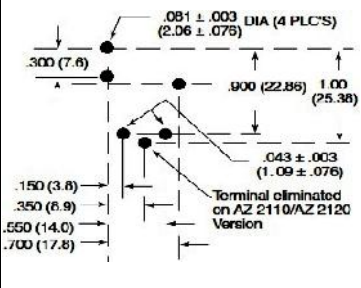
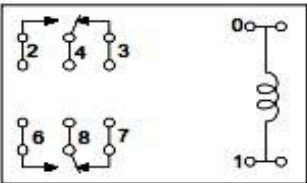
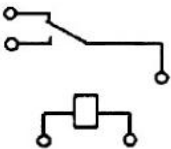
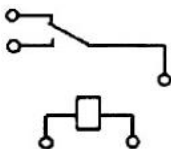
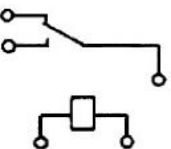
## High Power relays

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
 TUV	 TUV	 TUV	 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 <sub>2</sub> , AgCdO <sub>2</sub>	AgSnO <sub>2</sub> , AgCdO <sub>2</sub>	AgSnO <sub>2</sub> , AgCdO <sub>2</sub>	AgSnO <sub>2</sub> , AgCdO <sub>2</sub>
840W / 8310VA	840W / 8310VA	840W / 8310VA	840W / 8310VA
150VDC / 400 VAC	150VDC / 400 VAC	150VDC / 400 VAC	150VDC / 400 VAC
<b>30A</b>	<b>30A</b>	<b>30A</b>	<b>30A</b>
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
1000M (at 500VDC)	1000M (at 500VDC)	1000M (at 500VDC)	1000M (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
			
			


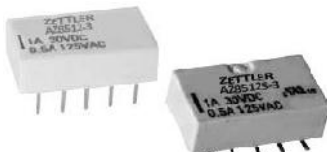




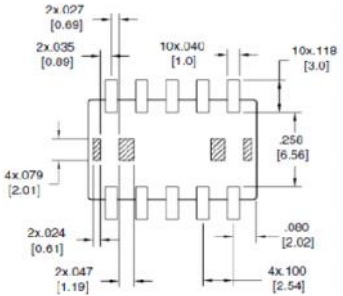
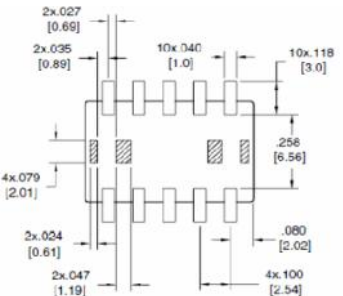
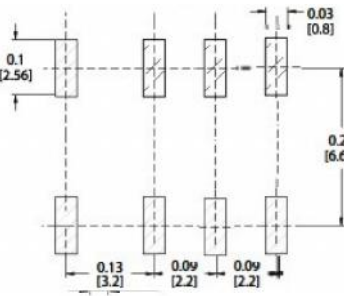
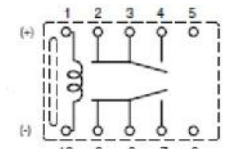
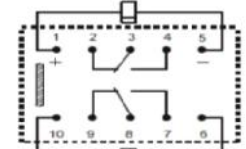
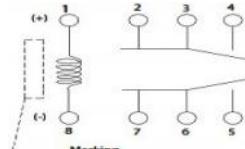
High Power relays			
SERIES	AZ2704	AZ2705	AZ2800
			
Dimensions LxWxH	50.5 x 33.5 x 36	68.3 x 33.8 x 51.3	68.4 x 34.5 x 26.4
FEATURES	30A switching Class B insulation std Class F insulation avail. Dielectric Strength 4kVrms 3.0mm contact gap avail	30A switching Class B insulation std Class F insulation avail. Dielectric Strength 4kVrms 3.0mm contact gap avail	30A switching Meets 8mm creepage Class F insulation std.
Approvals	 TUV	 TUV	 VDE
Contact Arrangement	SPST-DM-NO, DPST-DM-NO	SPST-DM-NO, DPST-DM-NO	DPST-NO, DPDT
Contact Material	AgSnO <sub>2</sub> , AgCdO <sub>2</sub>	AgSnO <sub>2</sub> , AgCdO <sub>2</sub>	AgSnO <sub>2</sub> , AgCdO <sub>2</sub>
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	1000M (at 500VDC)	1000M (at 500VDC)	1000M (at 500VDC)
Dielectric Strength	<b>Contact to Coil</b>	4000VAC 1 min	4000VAC 1 min
	<b>Open Contacts</b>	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)			









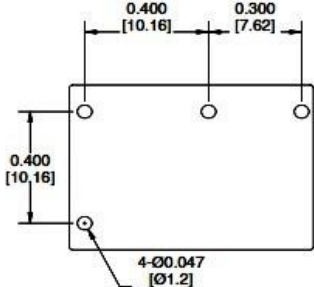
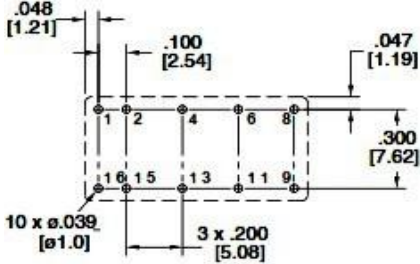
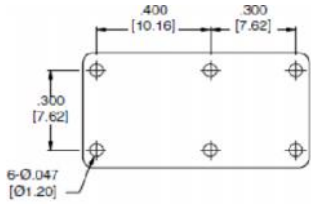
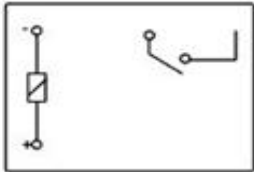
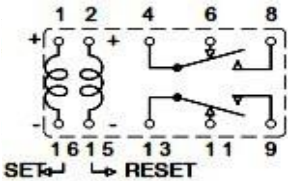
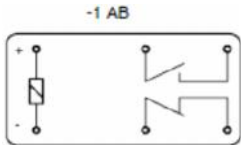
## High Power relays







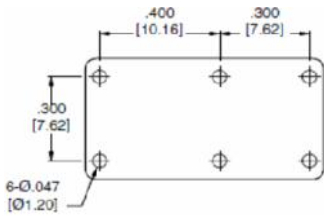
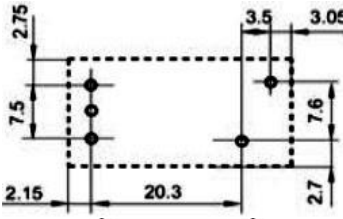
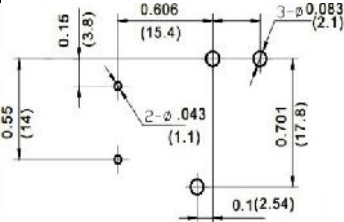
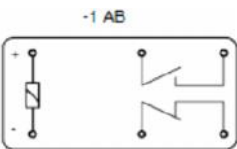
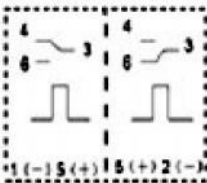
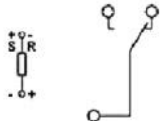
AZ2850	AZ2150	AZ2100	AZ2110/AZ2120
			
52.6 x 34.8 x 26.4	31.8 x 26.9 x 19.1	32.2 x 27.4 x 27.9	30.5 x 24.65 x 15.7
30A switching Meets 8mm creepage Class F insulation std.	40A switching Class B insulation std. Class F insulation avail. (PTI/CTI) 175	40A switching Class B insulation std. Class F insulation avail. (PTI/CTI) 175	40 Amp switching Class B insulation std. Class F insulation avail. PC / track-saver terminals (PTI/CTI) 175
 VDE	 VDE	 VDE	 VDE
DPST-NO, DPDT	SPST-NO or NC, SPDT	SPST-NO or NC, SPDT	SPST (NO) or (NC), SPDT
AgSnO <sub>2</sub> , AgCdO <sub>2</sub>	AgCdO <sub>2</sub>	AgCdO <sub>2</sub>	AgCdO <sub>2</sub>
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
1000M (at 500VDC)	1000M (at 500VDC)	100M (at 500VDC)	1000M (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
			
			






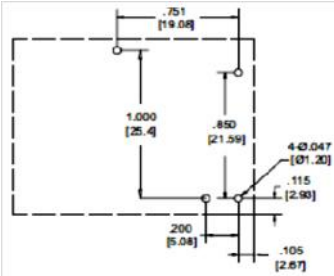
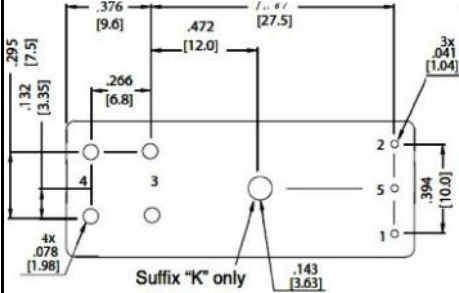
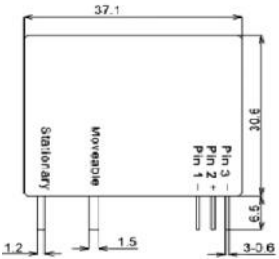
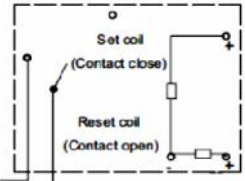
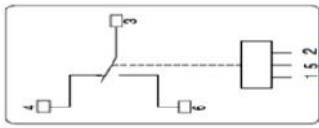
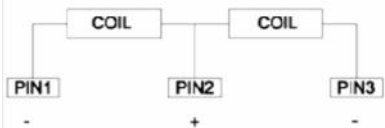
## Latching Relays

SERIES		AZ850/AZ851	AZ8512	AZ852
				
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				
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		1000M (at 500VDC)	1000M (at 500VDC)	1000M (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







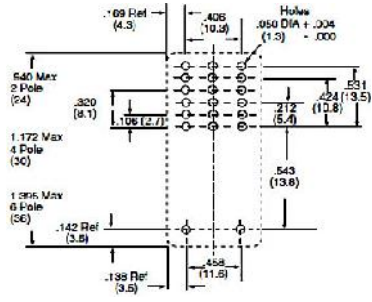
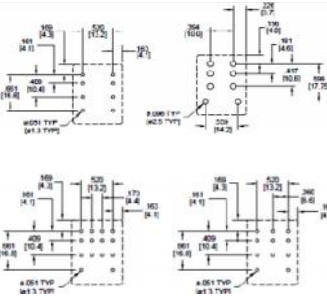
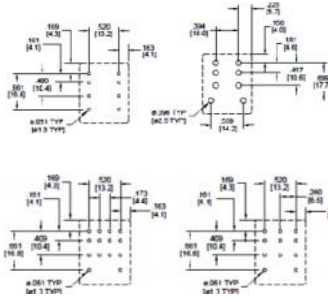
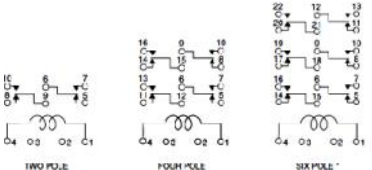
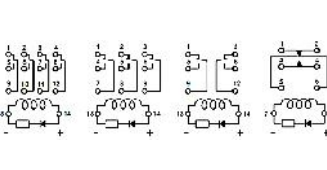
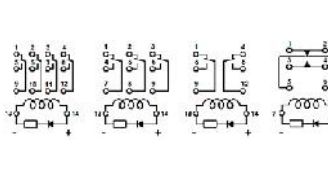
AZ880	AZ832P	AZ881
		
20 x 15 x 10.2	20.2 x 10 x 10.7	20.2 x 11 x 10
10A switching Dielectric strength 4kVrms Single or dual coil	Low profile DIP package Single or dual coil Fits standard 16 pin IC socket	8A switching Dielectric strength 3kVrms Single or dual coil
		
SPST/DPST-NO, DPST-NO+NC	DPDT (Bifurcated crossbar)	SPST-NO, DPST-NO, DPST-NO+NC
AgNi, AgSnO <sub>2</sub> , 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
<b>10A</b>	<b>3A</b>	<b>8A</b>
10A@250VAC 1/3 HP@250VAC B300 Pilot duty	3A@30VDC/125VAC	8A@30VDC /250VAC 1/6HP@250VAC
DC: 3 ~ 24 (single) 0.2W, (dual) 0.3W	DC: 3 ~ 24 0.1W - 0.2W	DC: 3 ~ 24 (single) 0.15W, (dual) 0.3W
1000M (at 500VDC)	1000M (at 500VDC)	1000M (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				
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 <sub>2</sub> , Tungsten/AgSnO <sub>2</sub>	AgSnO <sub>2</sub>	
Max Switching Power	SP: 150W/2000VA, DP: 150W/1250VA	5000VA	1200W / 13850VA	
Max Switching Voltage	240VDC / 380VAC	250VAC	110VDC / 277VAC	
Max Switching Current	<b>8A</b>	<b>20A</b>	<b>50A</b>	
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	1000M (at 500VDC)	1000M (at 500VDC)	1000M (at 500VDC)	
Dielectric Strength	<b>Contact to Coil</b>	3000VAC 1 min	4400VAC 1 min	2500VAC 1 min
	<b>Open Contacts</b>	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
		UL Pending
SPST-NO	SPST-NO, SPDT	SPST-NO or NC
AgSnO <sub>2</sub> , AgCdO <sub>2</sub>	AgSnO <sub>2</sub>	Silver alloy
15000VA	13850VA	30000VA
400VAC	440VAC	250VAC
<b>60 A</b>	<b>50A</b>	<b>120A</b>
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 (single) 1.0W, (dual) 2.1W	DC: 6 ~ 48 (single) 1.5 W, (dual) 3.0 W	DC: 5 ~ 24 1.0W (single), 2.0W (dual)
1000M (at 500VDC)	1000M (at 500VDC)	1000M (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
		
		









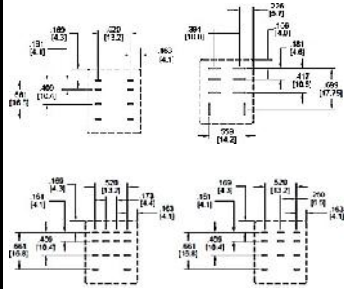
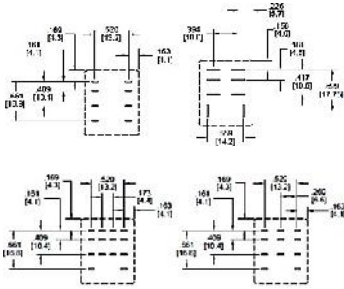
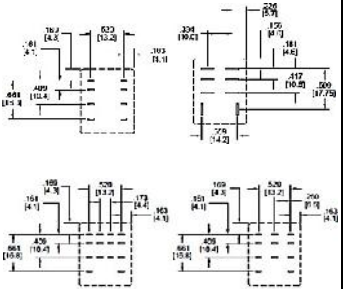
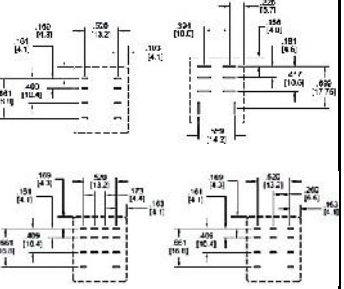
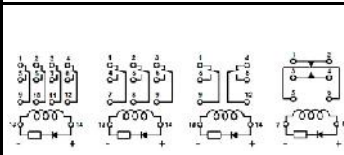
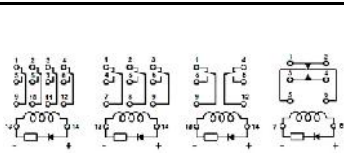
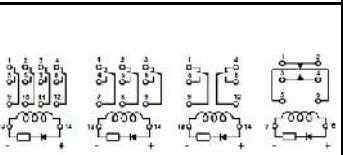
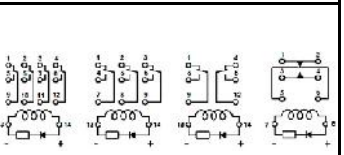








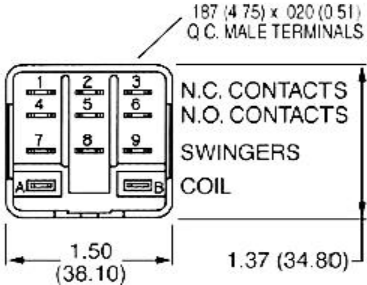
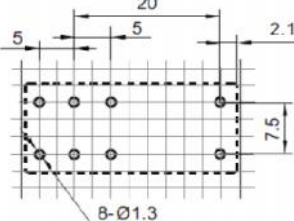
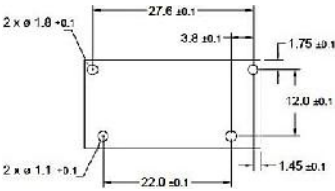
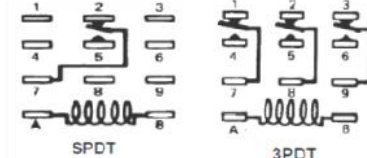
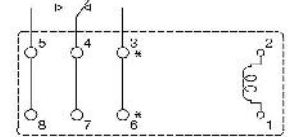
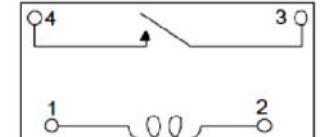
## Plug-In Relays

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			 CE	
Contact Arrangement		DPDT, 4PDT, 6PDT	SPDT, DPDT, 3PDT, 4PDT	SPDT, DPDT, 3PDT, 4PDT
Contact Material		Fine Ag or AgCdO <sub>2</sub> , Au plated	AgCdO <sub>2</sub> , AgCe	AgCdO <sub>2</sub>
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		1000M (at 500VDC)	100M (at 500VDC)	100M (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)				








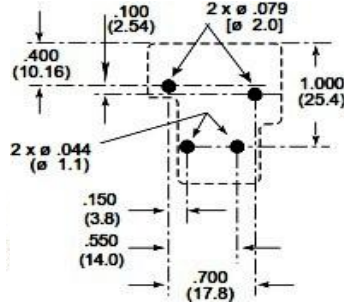
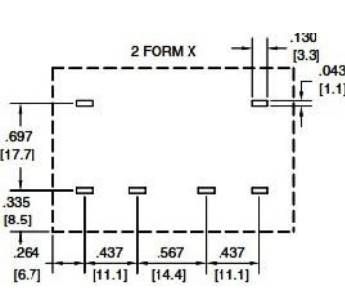
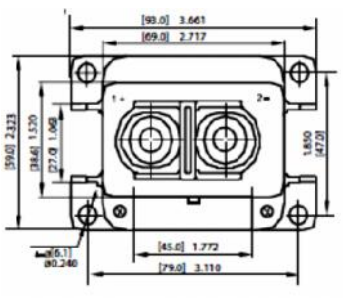
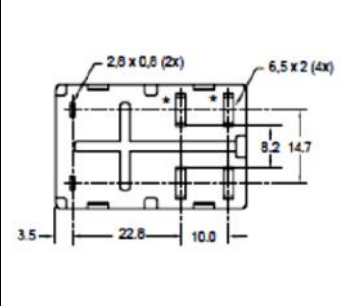
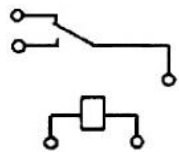
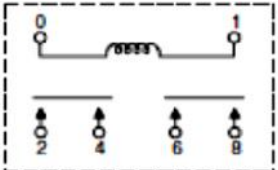
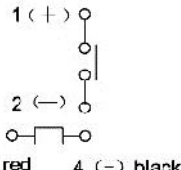
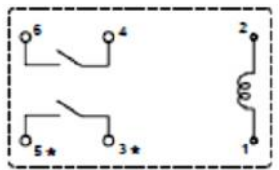





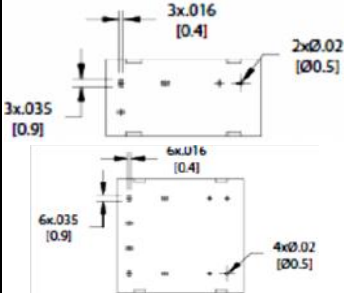
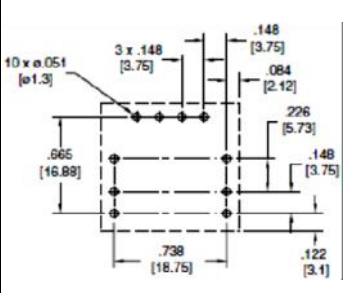
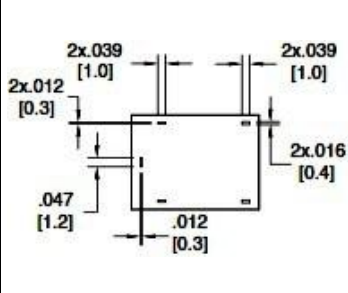
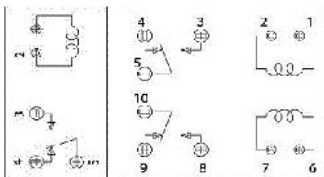
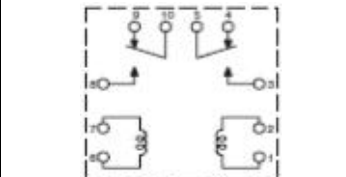
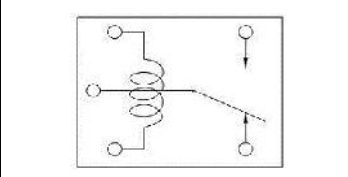
## Plug-In Relays





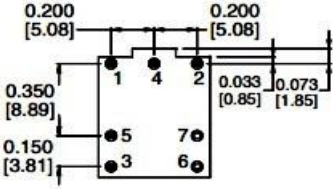
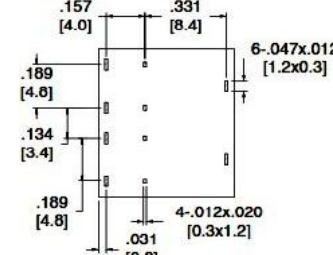
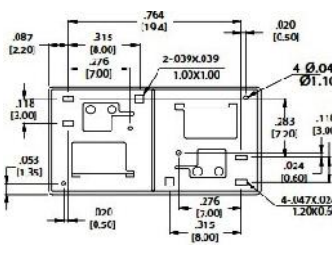
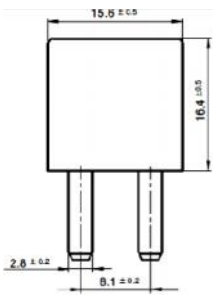
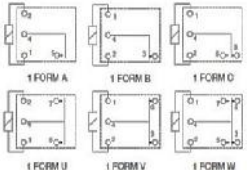
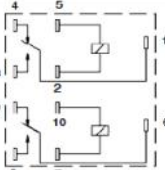
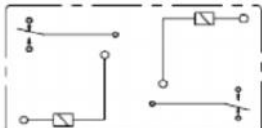
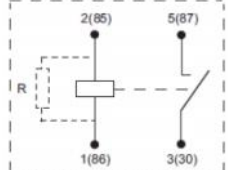
AZ165	AZ1651	AZ166	AZ1661
			
28 x 21.5 x 35	28 x 21.5 x 35	43 x 21.5 x 35	43 x 21.5 x 35
Plug in / solder terminals High switching capacity AC and DC coils Push to test lever available	Plug in / solder terminals High switching capacity AC and DC coils	Top panel mount High switching capacity AC and DC coils	Top panel mount High switching capacity AC and DC coils
			
SPDT, DPDT, 3PDT, 4PDT	SPDT, DPDT, 3PDT, 4PDT	SPDT, DPDT, 3PDT, 4PDT	SPDT, DPDT, 3PDT, 4PDT
AgCdO <sub>2</sub> , AgCe	AgCdO <sub>2</sub>	AgCdO <sub>2</sub> , AgCe	AgCdO <sub>2</sub>
450W / 3750 VA	560W / 5540VA	450W / 3750 VA	560W / 5540VA
30VDC / 250VAC	28VDC / 277VAC	30VDC / 250VAC	28VDC / 277VAC
<b>15A</b>	<b>20A</b>	<b>15A</b>	<b>20A</b>
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
100M (at 500VDC)	100M (at 500VDC)	100M (at 500VDC)	100M (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		 TUV	
Contact Arrangement	SPDT, DPDT, 3PDT	DPST-NO, DPDT	SPST-NO
Contact Material	AgCdO <sub>2</sub> , Au+Ag	AgCdO, AgSnO <sub>2</sub> , AgNi, Au available	AgSnO <sub>2</sub>
Max Switching Power	280W / 3600 VA	300W / 2500VA	8587VA
Max Switching Voltage	28VDC / 600VAC	150VDC / 400VAC	277VAC
Max Switching Current	<b>13A</b>	<b>10A</b>	<b>31A</b>
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	100M (at 500VDC)	1000M (at 500VDC)	1000M (at 500VDC)
Dielectric Strength	<b>Contact to Coil</b>	2200VAC 1 min	4500VAC 1 min
	<b>Open Contacts</b>	800VAC 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)			




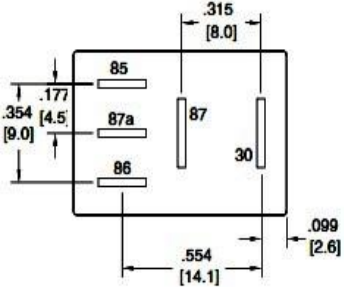
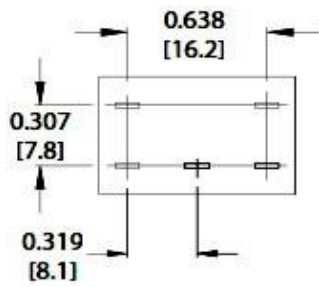
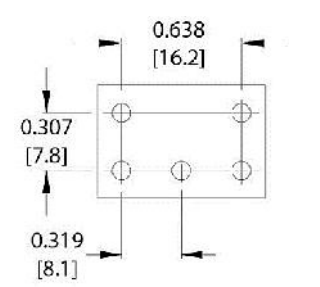
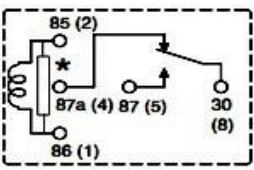
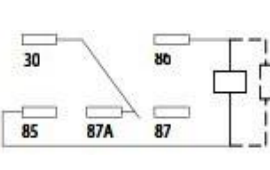
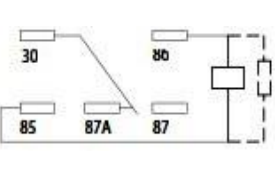
## Solar Relays

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
 VDE	 TUV	UL Pending	 VDE
SPST-NO	SPST-DM-NO, DPST-DM-NO	SPST-DM-NO	SPST-NO, DPST-NO
AgSnO <sub>2</sub>	AgSnO <sub>2</sub> , AgCdO <sub>2</sub>	Cu Alloy	AgSnO <sub>2</sub>
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
1000M (at 500VDC)	1000M (at 500VDC)	100M (at 500VDC)	1000M (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
			
		 1 (+) red 2 (-) black 3 (+) red 4 (-) black	

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 <sub>2</sub>	AgSnO <sub>2</sub>	AgSnO <sub>2</sub>
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	100M (at 500VDC)	100M (at 500VDC)	100M (at 500VDC)
Dielectric Strength	<b>Contact to Coil</b>	500VAC 1 min	500VAC 1 min
	<b>Open Contacts</b>	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)			





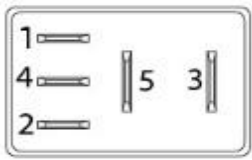
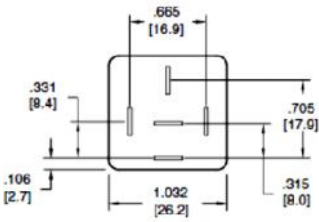
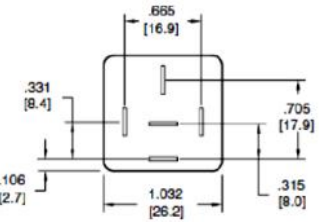
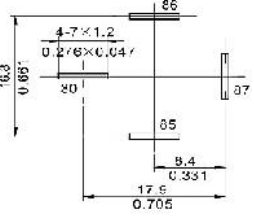
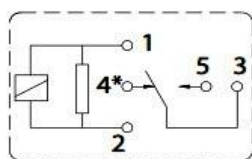
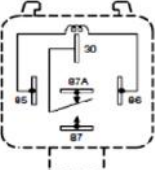
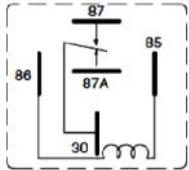
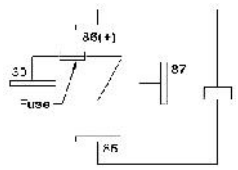
Automotive Relays			
AZ975/AZ976	AZ989	AZ987	AZ992
			
15.2 x 17.7 x 19.7	14.3 x 7.5 x 13.8	12.3 x 13.2 x 10.2	15.6 x 15.2 x 16.4
60A switching Vibration / shock resistant High inrush application Dual make/break avail.	25A switching Compact size Single / dual versions	30A switching Single / dual versions 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 <sub>2</sub>	AgSnO <sub>2</sub>	AgSnO <sub>2</sub>	AgSnO <sub>2</sub>
200W / 500VA	400W	480W	280W
100VDC	16VDC	16VDC	50VDC
<b>60A</b>	<b>25A</b>	<b>30A</b>	<b>100A</b>
(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
100M (at 500VDC)	100M (at 500VDC)	100M (at 500VDC)	100M (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	
			




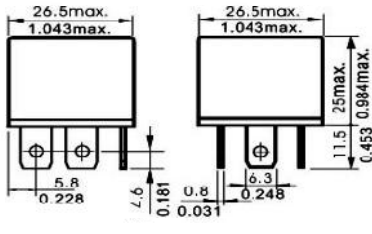
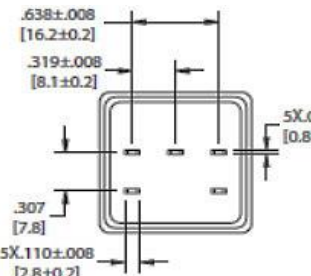
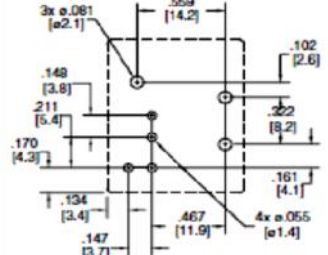
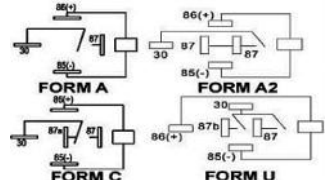
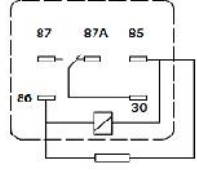
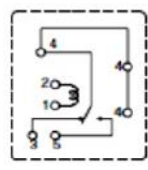


Automotive Relays				
SERIES	AZ977	AZ984	AZ9841	
				
Dimensions LxWxH mm	23 x 15.5 x 26	23 x 15.51 x 25.7	23 x 15.5 x 25.7	
FEATURES	20A switching Small footprint Vibration / shock resistant Cost effective High inrush application	20A switching Packard 280 footprint Vibration / shock resistant High inrush 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 <sub>2</sub>	AgSnO <sub>2</sub>	AgSnO <sub>2</sub>	
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	100M (at 500VDC)	100M (at 500VDC)	100M (at 500VDC)	
Dielectric Strength	<b>Contact to Coil</b>	1000VAC 1 min	500VAC 1 min	500VAC 1 min
	<b>Open Contacts</b>	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)				





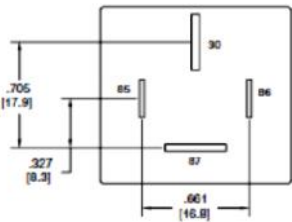
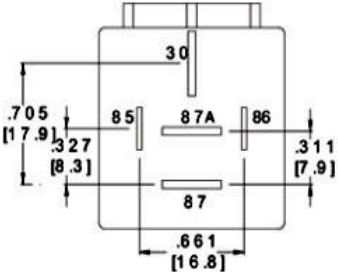
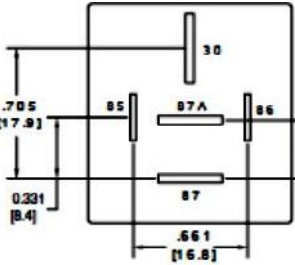
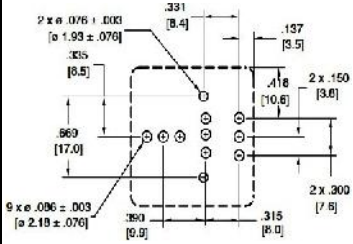
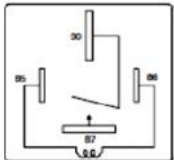
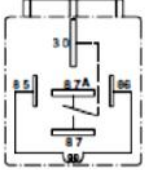
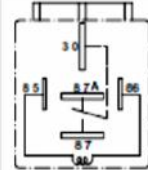
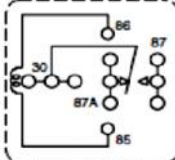


## Automotive Relays

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 suppression avail. Plastic / steel bracket avail.	40A switching PCB terminals High operating temp. Coil suppression 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 <sub>2</sub>	AgSnO <sub>2</sub>	AgSnO <sub>2</sub>	AgSnO <sub>2</sub>
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
500M (at 500VDC)	100M (at 500VDC)	100M (at 500VDC)	100M (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 suppression 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 <sub>2</sub>	AgSnO <sub>2</sub>	AgSnO <sub>2</sub>	
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	100M (at 500VDC)	100M (at 500VDC)	100M (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 <sub>2</sub>	AgSnO <sub>2</sub>	AgSnO <sub>2</sub>	AgSnO <sub>2</sub>
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
100M (at 500VDC)	100M (at 500VDC)	100M (at 500VDC)	100M (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		
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 <sub>2</sub>	AgCdO <sub>2</sub> , AgSnO <sub>2</sub>
Max Switching Power	840W / 12000VA	Varies based on load type and frame size
Max Switching Voltage	600VAC / 28VDC	600VAC
Max Switching Current	<b>50A</b>	<b>90 FLA</b>
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	100M (at 500VDC)	Rated Insulated Voltage: 690Vrms
Dielectric Strength	<b>Contact to Coil</b>	2200VAC 1 min
	<b>Open Contacts</b>	2200VAC 1 min
Ambient Temperature	-45°C ~ 115°C	-25°C ~ 70°C
Mounting Layout (Bottom View) (mm)		
Wiring Diagram (Bottom View)		

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
<ul style="list-style-type: none"> <li>To maintain soldering stability, the suggested soldering method is wave solder.</li> <li>Adjust the height of the flux liquid level as to prevent overflow of the PCB.</li> <li>A solder temperature not to exceed 270°C (518°F) Max.</li> </ul>	<ul style="list-style-type: none"> <li>Always keep the tip of the soldering iron clean to prevent contamination of the solder.</li> <li>Suggested soldering conditions:               <ul style="list-style-type: none"> <li>Wattage range 30 -60W</li> <li>Temperature approximately 300° (572°F)</li> <li>Soldering duration approximately 3 seconds</li> <li>Rosin flux recommended</li> </ul> </li> </ul>

**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
<ul style="list-style-type: none"> <li>Cleaning by immersion is not recommended.</li> </ul>		<ul style="list-style-type: none"> <li>Sealed relays can be safely cleaned by immersion.</li> <li>Use of pressure or agitation water wash must use extreme care.</li> <li>Ultrasonic cleaning is not recommended as it may cause problems such as breaks in the coil or slight sticking of the contacts.</li> </ul>

More details available on AZ website under [http://www.azettler.com/pdfs/technical\\_notes.pdf](http://www.azettler.com/pdfs/technical_notes.pdf)

# Suggested Equivalents

## Panasonic

<b>NAIS (Aromat)</b>	<b>Zettler</b>
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 AZ989/AZ9891J
CJ	AZ988
CM	AZ934/AZ935
CT5	AZ830/AZ832
DS2	AZ830P/AZ832P
DS2 Latching	AZ830/AZ832
DS2Y	AZ955/AZ957/AZ9571
HD	AZ164/AZ1641 AZ165/AZ1651 AZ166/AZ1661
HC/HJ/HL	AZ420/AZ428 AZ421/AZ429 AZ431/AZ439 AZ2428/AZ2429
K 2-Pole	AZSR126
K 4-Pole	AZ947/AZ9471
K 6-Pole	AZ940/AZ9405 AZ755/AZ7555 AZ942/AZ943/AZ942H
LF-G	AZ942A
JJM	AZ2150W
JQ	AZ2150W
JR	AZ2110/AZ21101/ AZ2210 AZ2150/AZ21501 AZ2250
JS	AZ2270
JSM	AZ9481
JT-G	AZ755/7555/AZ576
JTN/JTV	AZ761/AZ762 AZ733/AZ743/AZ7335
	AZ921
	AZ673
	AZ921
	AZ987/AZ9871
	AZ6991
	AZ940/AZ9405
	SGC-4F
	AZ847/AZ850 AZ851/AZ8512
	AZ8462
	AZ8462

## Fujitsu-

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

## Hasco

<b>Zettler</b>
2KLT
AZ945
AZ952/AZ954Y
AZ952/AZ954Y
AZ973/AZ9731
AZ822/AZ8222
AZ822/AZ8222
AZ952
AZ822/AZ8222
AZ830/AZ832
AZ2150/AZ21501/ AZ2151
AZ2800/AZ2850
AZ957/AZ9571
AZ940/AZ9405
AZ942/AZ943/AZ942H
AZ946
AZ9481
AZ947/AZ9471
AZ8/AZ8A
AZ850/AZ850P

## Idec

<b>Zettler</b>
AZ830/AZ832
AZ761/AZ762/AZ576 AZ742/AZ743
AZ164/AZ1641 AZ165/AZ1651 AZ166/AZ1661
AZ942/AZ943
AZ420

## Magnecraft

<b>(MSD)</b>	<b>Zettler</b>
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 AZ2100/AZ21001 AZ2280/AZ22801
Class 91	AZ2800/AZ2850
Class 92	AZ942/AZ943/AZ942H
Class 178	AZPRD
Class 199/MGN	AZ822/AZ8222
Class 272	AZ951/AZ952/ AZ954X/AZ954Y
Class 232	AZ942/AZ943
Class 270	AZ164/AZ1641
Class 281	AZ165/AZ1651 AZKUP
Class 283	AZ2700
Class 725	

## Mid-Tex (CII)

<b>Zettler</b>
156/158
AZ164/AZ1641 AZ165/AZ1651 AZ166/AZ1661
AZKUP
157
190/MD
191
258
AZ822/AZ8222 AZ955/AZ957/AZ9571 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
AZ2150/AZ21501 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](http://www.azettler.com)

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# Suggested Equivalents

<b>NEC</b>	<b>Zettler</b>	<b>OEG</b>	<b>Zettler</b>
EA2	AZ850	OJ/OJE	AZ770/AZ7705/AZ7709
EB2	AZ851	OMI/OMIH	AZ755/AZ7555
EC2/EE2	AZ8462/AZ8512		AZ761/AZ762/AZ576
MR301	AZ942/AZ943/AZ942H	OMIT	AZ697/AZ6975
MR31	AZ942/AZ943/AZ942H	ORW	AZ942/AZ943/AZ942H
MR602	AZ822/AZ8222	ORWH/PCE	AZ932
MR602	AZ830/AZ832	ORZ	AZ828/AZ8222
MR602	AZ830P/AZ832P		AZ830/AZ832
MR612	AZ830/AZ832	OSA	AZ673
	AZ830P/AZ832P	OUA/OUAT	AZ951/
MR62	AZ822/AZ8222		AZ954X
	AZ830/AZ832	OUAZ	AZ951/
MR622	AZ830/AZ832		AZ954X
MR71	AZ697/AZ6975	OUDT/OUDTM	AZ8/AZ8A
	AZ761/AZ762/AZ576	OUDE	AZ8/AZ8A
MR72	AZ733/AZ743	OZ	AZ755/AZ7555
UC2/UD2	AZ852		AZ762/AZ576
		OZF	AZ756
		PCD	AZ9481
		SRET	AZ164/AZ1641
			AZ165/AZ1651
			AZ166/AZ1661
		SRW	AZ942/AZ943/AZ942H
		SRU/SRUT	AZ942/AZ943
<b>Omron</b>	<b>Zettler</b>	<b>Schrack</b>	<b>Zettler</b>
G2R	AZ755/AZ7555	RP	AZ697/AZ6975
G2RK	AZ762P		AZ733/AZ743/AZ7335
G2RL	AZ742/AZ743/AZ576		AZ761/AZ762/AZ576
	AZ761/AZ762		AZ763/AZ764
G4A	AZ769/AZ7695	RS	AZ822/AZ8222
G5C	AZ9481		AZ830/AZ832
G5L/LE	AZ942H/AZ943		AZ830P/AZ832P
G5N	AZ6951	RT1	AZ762/AZ762P/AZ576
G5Q	AZ940/AZ9405	RT2/RTD/RTE	AZ742/AZ743/
G5V-1	AZ955/AZ957/AZ9571		AZ761/AZ762
G5V-2	AZ822/AZ8222	RY	AZ696/AZ6961/AZ6962
G6A	AZ830/AZ832	SNR	AZ6991
	AZ830P/AZ832P	TD	AZ2110/AZ21101/
G6B/C	AZ881/AZ888		AZ2111/
G6D	AZ6951		AZ2150/AZ21501
G6H	AZ850/AZ851/AZ8512/AZ8521		AZ2151/
G6K	AZ852/AZ8512	TE	AZ2100/AZ21001
G6R	AZ696/AZ6961/AZ6962		AZ2280/AZ22801
G6S	AZ8462	TF	AZ942/AZ943/AZ942H
G7L	AZ2700	TN	AZ942/AZ943
G8H	AZ988	TP	AZ8/AZ8A
G8J	AZ974/AZ9741	ZD	AZ2110/AZ21101
G8JN	AZ973/AZ9731		AZ2111
G8JR	AZ979/AZ980		AZ2150/AZ21501
G8N	AZ989/AZ9891	ZF	AZ2151
G8P	AZ2110/AZ21101/	ZK	AZ942/AZ943
	AZ2111/		AZ420/AZ421/
	AZ2270		AZ428/AZ429/
	AZ2280/AZ22801	ZL	AZ431/AZ439
	AZ2150/AZ21501		AZ420/AZ421/
	AZ2150W		AZ428/AZ429/
G8PE	AZ987/AZ9871		AZ431/AZ439
G8PT	AZ2151/		
	AZ21501		
G8QN	AZ9471		
G8SN	AZ9421A		
G8W	AZ986		
G8V	AZ984/AZ9841		
G9E	AZHVDC		
LY/MY	AZ164/AZ1641	<b>Sanyou</b>	<b>Zettler</b>
	AZ165/AZ1651	DSY2Y	AZ822/AZ8222
	AZ166/AZ1661	SARL	AZ973/AZ9731
MHS	AZ420/AZ421/	SARS	AZ988
	AZ428/AZ429	SFK	AZ769/AZ7695
MHQ	AZ2428/AZ2429	SJ	AZ770/AZ7705/AZ7709
		SLA	AZ2150/AZ21501
		SLC	AZ2100/AZ21001

**AMERICAN ZETTLER, INC.** [www.azettler.com](http://www.azettler.com)

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# Suggested Equivalents

<b>Sanyou</b>	<b>Zettler</b>	<b>Tyco (P&amp;B)</b>	<b>Zettler</b>
SMA	AZ673	3100	XMCO
SME/SMET	AZ164/AZ1641	K10	AZ164/AZ1641
	AZ165/AZ1651		AZ165/AZ1651
	AZ166/AZ1661		AZ166/AZ1661
SRB	AZ9375 SRD/	KUP	AZKUP
SRDH	AZ942/AZ943	PCJ	AZ9375
SYS1K	AZ954X/	PRD	AZPRD
SYS1	AZ954Y	PCFN	AZSR126
		RKA/RKS	AZ697/AZ6975
<b>Song Chuan</b>	<b>Zettler</b>		AZ742/AZ743
109	AZ989/AZ9891J		AZ761/AZ762/AZ576
110	AZSR126		AZ763/AZ764
202/202HT	AZ9375		AZ755/AZ7555
207/875	GP10	R10	AZ420/AZ421/
301	AZ984/AZ9841		AZ428/AZ429/
303	AZ992		AZ431/AZ439
307/899	AZ943	R10R	AZ2428/AZ2429
507/888H	AZ761/AZ762/AZ576	RT	AZ742/AZ743/AZ576
	AZ742/AZ743		AZ761/AZ762
731/	AZKUP	SSRT	SGX-1505FB
792	AZ973/AZ9731	TB1	AZ989/AZ9891J
792H	AZ973/AZ9731	T70	AZ942/AZ943
793	AZ697/AZ6975	T7C	AZ942/AZ943/AZ942H
	AZ755/AZ7555	T7N	AZ942/AZ943
	AZ733/AZ7335	T72	AZ942/AZ943
801H/A	AZ942/AZ943	T72J/K/M	AZ942A/AZ9421A/
812H	AZ932/AZ943/AZ942H		AZ947/AZ9471
812HM	AZ942A/AZ9421A	T73	AZ8/AZ8A
821	AZ769/AZ7695	T75	AZ696/AZ6962
822	AZ970/AZ9701	T77	AZ770/AZ7705/AZ7709
	AZ971/AZ9711	T81	AZ951/AZ954X
832A	AZ2150/AZ21501	T82	AZ822/AZ8222
833H	AZ942/AZ942H/AZ943	T83	AZ830/AZ832
834	AZ766	T85	AZ822/AZ8222
835	AZ770/AZ7705/AZ7709	T90	AZ2110/AZ21101
841	AZ2702		AZ2111/AZ2150/
842	AZ954Y		AZ21501 AZ2151
842A	AZ954X	T91	AZ2100/AZ21001
845	AZ742/AZ743/		AZ2101/
	AZ761/AZ762/AZ576		AZ2200
855AWP	AZ2270/	T9A	AZ2100/AZ21001
	AZ2280		AZ2150/AZ21501
861	AZ975/AZ9751		AZ2270/AZ2280/
	AZ976/AZ9761		AZ22801
871	AZ988	T92	AZ2800/
882	AZ6991		AZ2850
892/892H	AZ940/AZ9405	V23026	AZ956/AZ956P
895	AZ2100/AZ21001	V23042	AZ830/AZ832
896	AZ9731	V23084	AZ934/AZ935
897	AZ979/AZ980 898	V23086	AZ987/AZ9871
	AZ986	V23079	AZ8462
SCL/SCL-1	AZ164/AZ1641	V23105	AZ822/AZ8222
	AZ165/AZ1651	V23106	AZ850/AZ851/AZ8512
SCLA	AZ164/AZ1641	VF4/23134A	AZ973/AZ9731
	AZ165/AZ1651		AZ974/AZ9741
SCLB/SCLD	AZ164/AZ1641	VF7/23134J	AZ979/980
	AZ165/AZ1651	VF28	AZ986
<b>Telemecanique</b>	<b>Zettler</b>	VJ28	AZ984/AZ9841
DR	AZ822/AZ8222	VFM	AZ988
DRS	AZ830/AZ832	VKM/23072	AZ975/AZ9751
T154	AZ420/AZ421/		AZ976/AZ9761
	AZ428/AZ429/	VKP	AZ9701/AZ9711
	AZ431/AZ439	VM	AZ984/AZ9841
T163	AZ420/AZ421/		
	AZ428/AZ429/		
	AZ431/AZ439		

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