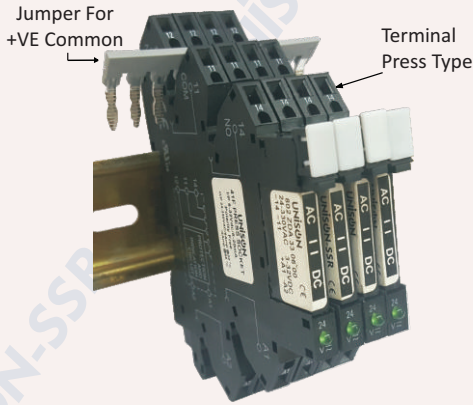
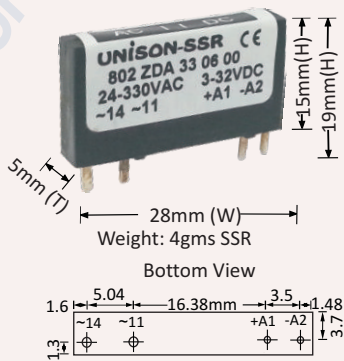


UNISON CONTROLS PVT. LTD.

SOLID STATE RELAY

ISO 9001:2015 & ISO 14001:2015 CERTIFIED by InterConformity GmbH

6AMP - MODEL 802 ZDA 33 06 00

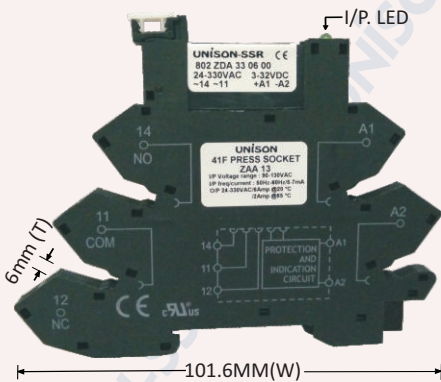
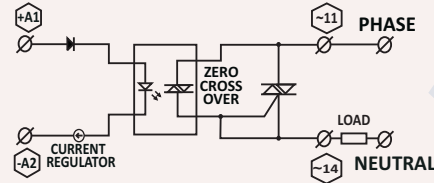


OUTPUT AC CONTROL

3Q - TRIAC

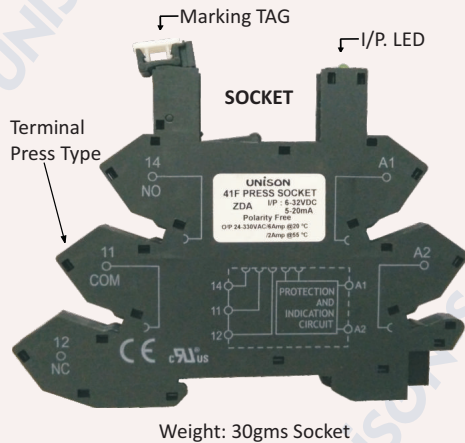
- Zero Voltage Turn-On .
- Rating 6Amp @25°C 24-330 VAC.
- Fire Retardant Plastic as per UL VO GRADE.
- No electro-mechanical or acoustical noise
- Long life cycle . Up to 10¹¹ cycles
- No contact arcing, low electromagnetic interference, high surge capability
- Logic compatibility, Fast switching, Low coupling capacitance.
- SSRs can be provided as surface-mount technology (SMT)parts, which means lower cost and easier SMT printed-circuit board manufacture
- High resistance to aggressive chemicals and dust due to special Potting.
- Input LED Indication with SOCKET

DC to AC - Circuit Diagram



ZDA : 6 to 32VDC/5-20mA (Polarity Free Input)
 ZAA 13 : 90 to 130VAC/50Hz-60Hz/5-7mA
 ZAA 27 : 180 to 270VAC/50Hz-60Hz/5-7mA

Parameters	Unit	Input Technical Specifications			
		SSR ZDA	ZDA	41F Press SOCKET ZAA 13	ZAA 27
Control Voltage Range	V	3-32 VDC	6-32 VDC	90-130 VAC	180-270 VAC
Reverse Polarity Protection	-	YES	Polarity Free	-	-
Control Supply Current Consumption	mA	5-15 mA	5-20 mA	5 - 7 mA	5 - 7 mA
Input Impedance (Current Regulator Circuit Impedance)	Ω	1 kΩ - 2 kΩ	1 kΩ - 1.6 kΩ	18.5 kΩ	38.5 kΩ
Minimum Turn ON Voltage	VDC	2.6 VDC	5.5 VDC	80 VAC	150 VAC
Turn OFF Voltage	VDC	< 2.5 VDC	< 5.4 VDC	< 70 VAC	< 140 VAC
Control Input Status Indication	-	-	Green LED Indication	Green LED Indication	Green LED Indication
Maximum Turn ON Time	mS	≤ 1/2 Cycle (10 mS)	≤ 1/2 Cycle (10 mS)	≤ 20 mS	≤ 20 mS
Maximum Turn OFF Time	mS	≤ 1/2 Cycle (10 mS)	≤ 1/2 Cycle (10 mS)	≤ 20 mS	≤ 20 mS



Output Technical Specifications @ 25°C Unless Specified

Parameters	Symbol	Unit	06 Amp
Operating Voltage Range	V _{AC}	V _{RMS}	24-330 VAC - 3Q TRIAC
Operating Frequency Range	f	Hz	47-63 Hz
Peak Inverse Voltage	PIV	V _{PK}	700
Max. Surge Voltage With Stand Capacity (<1 Second)	V _{surge}	V _{RMS}	2700 V_{RMS} (3800 V_{PK})
Rated Operational Current AC51a @ 20°C (Resistive Load)	I _T	Amp	06
Rated Operational Current AC51a @ 55°C (Resistive Load)	I _T	Amp	02
Rated Operational Current AC53a @ 55°C (Inductive Load-Motor)	I _T	Amp	0.6
NON Repetitive Surge Peak ON-State Current @ Rated V _{RRM} applied for 1/2 Cycle t=10 mS/ t=8.33 mS (50 Hz/60 Hz)	I _{TSM} @ 50 Hz	Ap	60
	I _{TSM} @ 60 Hz	Ap	63
Max. I ² t for Fusing @ t=10 mS (50Hz)	I ² t	A ² s	21
Max. I ² t for Fusing @ t=8.33 mS (60Hz)	I ² t	A ² s	16
Max. Peak ON-state voltage Drop	V _{TM}	V _{RMS}	≤ 1.2
Minimum Isolation Resistance between Input Terminals (+A1,-A2) to Output Terminals (~11,~14) @ 500 VDC	Ω	GΩ	1
Isolation Voltage Input Terminals (+A1,-A2) to Output Terminals (~11,~14) for 1 Minute	V _{ISO}	kV	2.5
Max. Rate of Rise OFF-State Voltage	dV/dt	V/μS	400
Max. Rate of Rise OFF-State Current	di/dt	A/μS	50
Max. Peak Repetitive Forward OFF-State Voltage	V _{DRM}	V	800
Max. Peak Repetitive Forward OFF-State current	I _{DRM}	mA	0.05
Max. Peak repetitive reverse off-state Voltage	V _{RRM}	V	700
Max. Peak repetitive reverse off-state current	I _{RRM}	mA	0.05
Max. DC Gate Trigger Voltage	V _{GT}	V	1.2
Max. DC Gate Trigger Current	I _{GT}	mA	25
Turn OFF Time	t _q	μS	20
Maximum Latching Current	I _L	mA	25
Maximum Holding Current	I _H	mA	20
Thermal Resistance R _θ (Junction to case)	R _{θ(j-c)}	°C/W	1.8

General Specification

Max Barrier Layer Temperature (T _{max})	< 125 °C
Ambient Temperature Range (T _{amb})	0-85 °C
SSR Storage Temperature Range (T _{st})	-40°C to 80°C
Power Factor COS φ @ Maximum Load @ 480 VAC	> 0.55
Housing Material	UL-94 V0 Grade
Socket weight	30 grams
Weight : SSR / SOCKET	4 grams / 30 grams
Control Input Electrical Wire Size (Max.)	1.5 mm ² Pin Type Lugs
Power Output Electrical Wire Size (Max.)	1.5 mm ² Pin Type Lugs
Test Standards:	ROHS,IP20
Pending Approvals:	UL 508,VDE ,TUV ,CSA 22-2 IEC 60947-5-1:2016 IEC 62314:2006

Note : Specifications are subject to change without prior notice.

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