

OAC Series

AC Output Modules

File E29244

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

Features

- .6" (15.2mm) thick package.
- 4000V rms optical isolation.
- High immunity to false operation.
- Series compatible.
- Output modules can be controlled from sinking or sourcing logic.
- Compatible with 2IOM series mounting boards.

Engineering Data

- Switch Form:** 1 Form A (SPST-NO)
- Duty:** Continuous.
- Operating Temperature:** -30°C to +80°C.
- Storage Temperature:** -30°C to +100°C.
- Potting Compound Flammability:** UL94V-0.
- Solderability:** 260°C for 5 seconds, maximum.
- Approximate Weight:** 1.38 oz. (35g).

Ordering Information

Typical Part Number >	OAC	-5	A
1. Basic Series: OAC = AC output module — black case			
2. Input Voltage: 5 = 5VDC 15 = 15VDC 24 = 24VDC			
3. Output: Blank = 3A, 12-120VAC, zero voltage turn-on output A = 3A, 24-280VAC, zero voltage turn-on output H = 5A, 24-280VAC, zero voltage turn-on output R = 24-280VAC, Random Turn-On			

Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

- | | | |
|--------|--------|---------|
| OAC-5 | OAC-5H | OAC-24 |
| OAC-5A | OAC-15 | OAC-24A |

Input Specifications

Parameter	Conditions	Units	OAC-5 OAC-5A OAC-5H OAC-5R			OAC-15 OAC-15A OAC-15H OAC-15R			OAC-24 OAC-24A OAC-24H OAC-24R		
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
Control Voltage Range V_{IN}		VDC	3	5	8	9	15	18	18	24	32
Must Operate Voltage $V_{IN(OP)}$ (Min.)		VDC				3			9		
Must release Voltage $V_{IN(REL)}$ (Min.)		VDC	1			1			1		
Input Current	@ V_{IN} =Nominal	mADC	2 - 10			6 - 12			4 - 12		
Input Resistance R_{IN}		Ohms	Current Regulator								

PIN-3 must be positive with respect to PIN-4 for correct operation.

OAC Series (Continued)

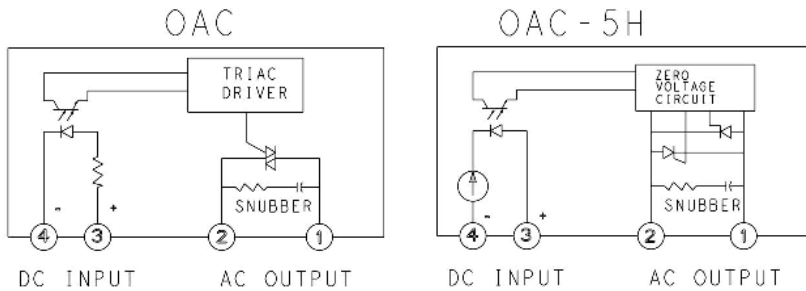
AC Output Modules

Output Specifications (47 to 63 Hz, @+25°C unless otherwise specified)

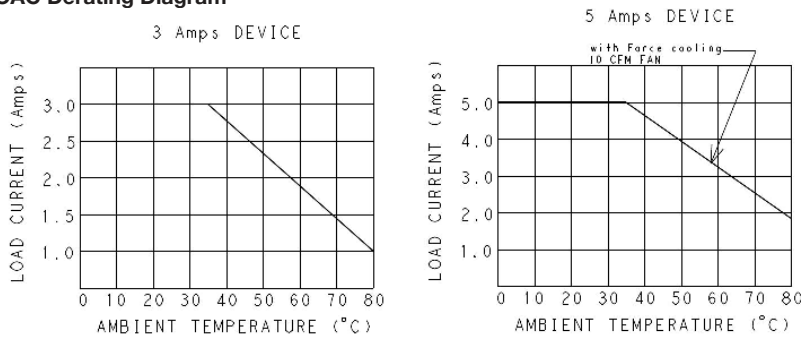
Parameter	Conditions	Units	OAC-5 OAC-15 OAC-24			OAC-5A OAC-15A OAC-24A			OAC-5H OAC-15H OAC-24H			OAC-5R OAC-15R OAC-24R		
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
Load Voltage V_L		V rms	12		120	24		280	24		280	24		280
Repetitive Blocking Voltage		V peak			400			600			600			600
Load Current I_L^*		A rms	.05		3	.05		3	.05		5	.05		5
Single Cycle Surge Current		A peak		208			208			300			300	
Leakage Current (Off-State)	$V_L=280VAC$	mA rms			5			5			5			5
On-State Voltage Drop	$I_L=Max.$	V rms			1.8			1.8			1.6			1.6
Static dv / dt (Off-State)		V/ μs		475			475			300			300	
Turn-On Time	@f=60/50 Hz.	ms		8.3 / 10			8.3 / 10			8.3 / 10			0.1	
Turn-Off Time		ms		8.3 / 10			8.3 / 10			.3 / 10			8.3	
HP / Rating	@ 240VAC	HP		1/4			1/4			1/2			1/2	

* See Derating curve

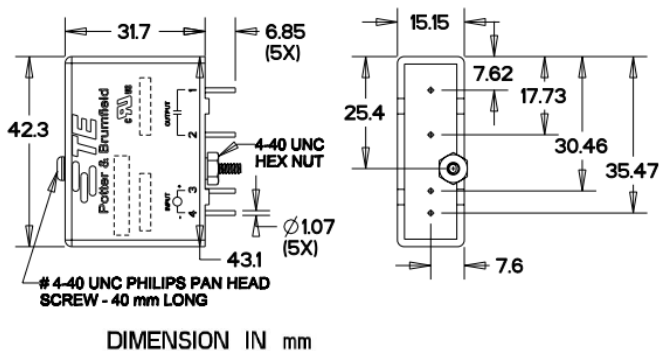
OAC Operating Diagram



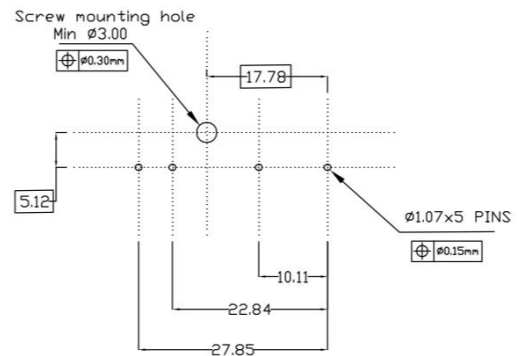
OAC Derating Diagram



Outline Dimensions



PCB Layout



Note : Extra nut and washer will be provided on the screw, which will goes under PCB to fix the relay. Hex Nut S= 6.35 (width across flats), Thickness = 2.40; Washer = OD : $\Phi 4.85 \pm 0.25$, ID : $\Phi 2.75 \pm 0.15$, Thickness : 0.55