

OAC Series

AC Output Modules

c UL us 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			18
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 RIN		Ohms	Current Regulator								

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

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Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

OAC Series (Continued)

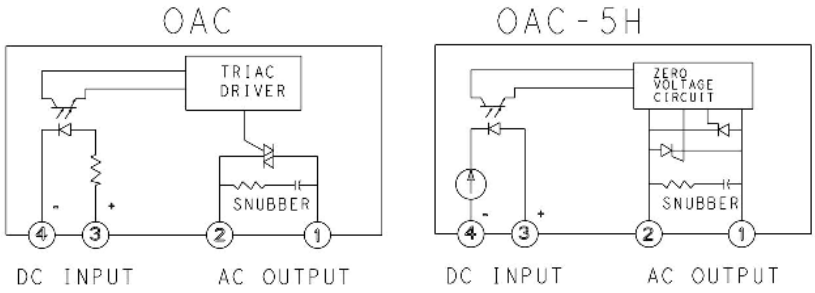
AC Output Modules

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

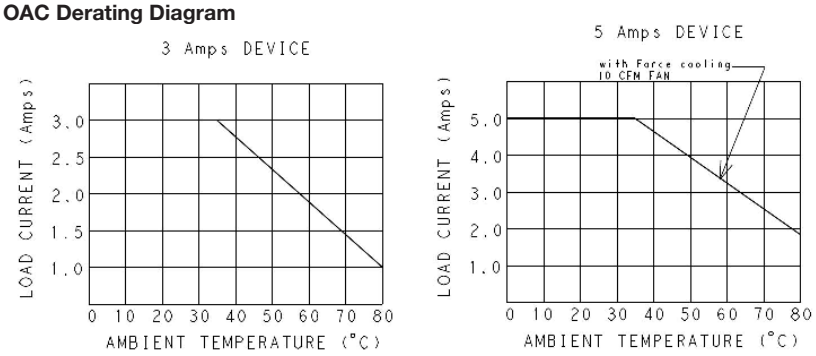
Parameter	Conditions	Units	OAC-5 OAC-15 OAC-24			OAC-5A OAC-15A OAC-24A			OAC-5H OAC-15H OAC-24H			OAC-5R OAC-15R OAC-24R		
			Min.	Typ.	Max	Min.	Typ.	Max	Min.	Typ.	Max.	Min.	Typ.	Max.
Load Voltage V_L		V rms	12		120	24		280	24		280	24		280
Repetitive Blocking Voltage		V peak			400			600			600			600
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

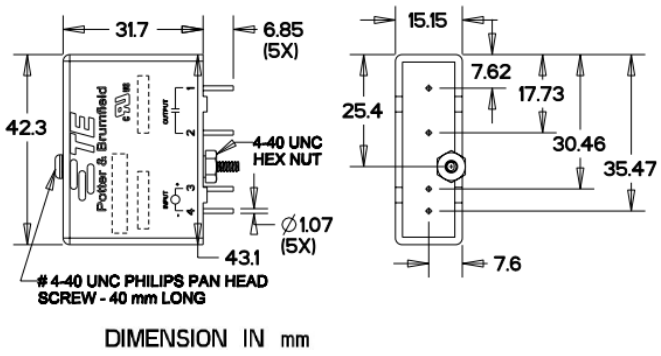
OAC Operating Diagram



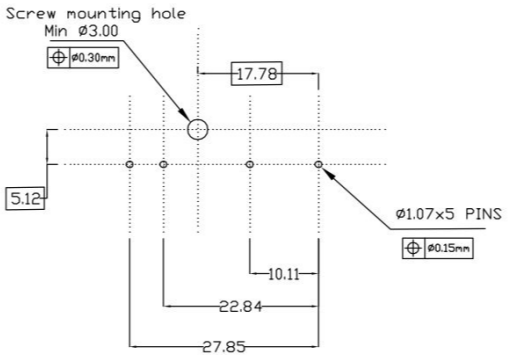
OAC Derating Diagram



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 : Φ485±0.25, ID : Φ2.75±0.15, Thickness : 0.55

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