

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			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 R_{IN}		Ohms	Current Regulator								

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

OAC Series (Continued)

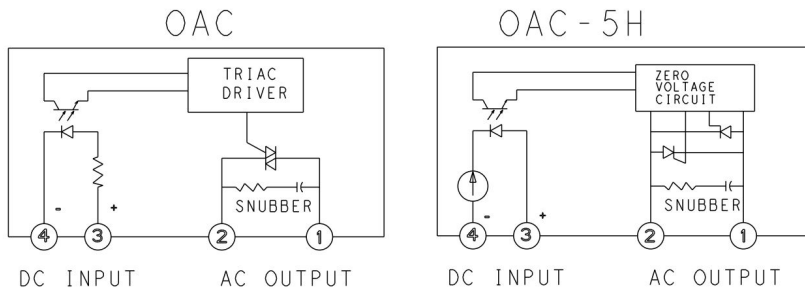
AC Output Modules

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

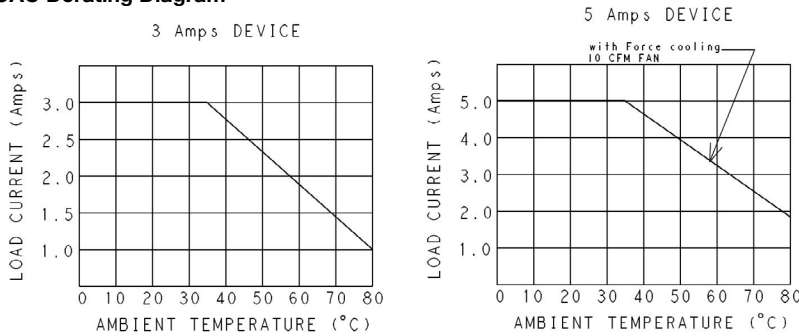
Parameter	Conditions	Units	OAC-5 OAC-15 OAC-24			OAC-5A OAC-15A OAC-24A			OAC-5H OAC-15H OAC-24H			OAC-5R OAC-15R OAC-24R		
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
Load Voltage VL		V rms	12		120	24		280	24		280	24		280
Repetitive Blocking Voltage		V peak			400			600			600			600
Load Current IL*		A rms	.05		3	.05		3	.05		5	.05		5
Single Cycle Surge Current		A peak		208			208			300				300
Leakage Current (Off-State)	VL=280VAC	mA rms			5			5			5			5
On-State Voltage Drop	IL=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

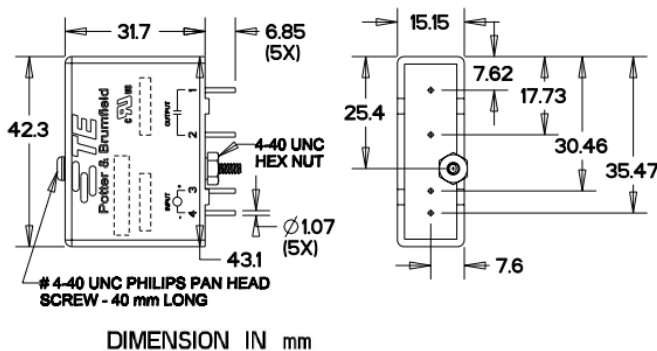
OAC Operating Diagram



OAC Derating Diagram



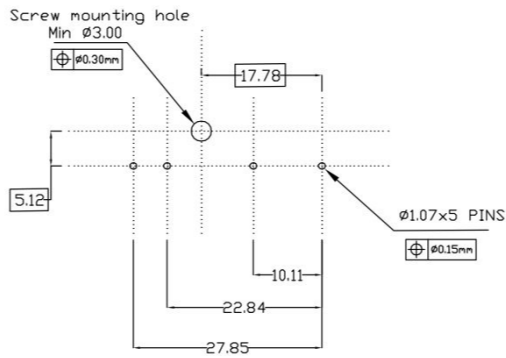
Outline Dimensions



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

OAC Series (Continued)

PCB Layout



Product Code	Part Number
OAC-5	6-1393028-9
OAC-15	2-1393028-3
OAC-24	2-1393028-4
OAC-5A	2-1393028-8
OAC-15A	6-1393028-7
OAC-24A	2-1393028-5
OAC-5H	2-1393028-9
OAC-5R	2319263-2

To view the Solid-State relay application notes click here