

## IACM Series

### Slim Line AC Input Module

UL 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

- Slim line .4" (10.16mm) thick package.
- Foot print same as .6" (15.24mm) thick package.
- 4000V rms optical isolation.
- Color coded by function.
- High immunity to false operation.
- Series compatible.
- 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:** .87 oz. (22.1g).

#### Ordering Information

Typical Part Number >

**IACM -5 A**

**1. Basic Series:** IACM = Slim line AC input module — yellow case

**2. Logic Voltage:** 5 = 5VDC  
15 = 15VDC  
24 = 24VDC

**3. Input:** Blank = 120VAC input (90-140VAC) \*\*  
A = 240VAC input (180-280VAC) \*\*  
E = 18-36VAC input \*\*

\*\* Is not polarity sensitive.

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

IACM-5  
IACM-5A  
IACM-5E  
IACM-15

#### Input Specifications

Parameter	Conditions	Units	IACM-5			IACM-5A			IACM-5E		
			IACM-15	IACM-24		IACM-15A	IACM-24A		IACM-15E	IACM-24E	
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
Control Voltage Range $V_{IN}$		VAC	90	120	140	180	240	280	18	24	36
Must Operate Voltage $V_{IN(OP)}$		VAC			90			180			18
Must Release Voltage $V_{IN(REL)}$		VAC	60			60			10		
Max. Input Current	@ $V_{IN}$ =Max.	mA	1 - 5			1 - 8			0.2 - 2.0		
Input Resistance		Ohms	Current Regulator								

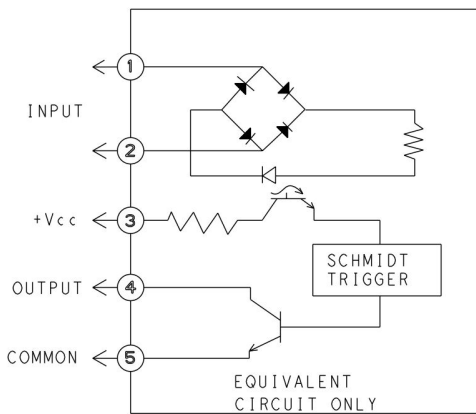
## IACM Series (Continued)

### AC Input Module

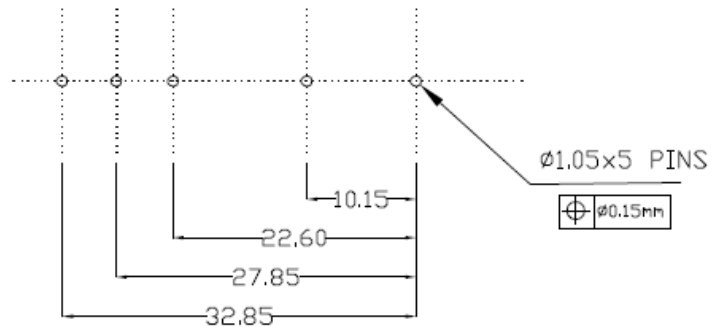
#### Output Specifications (@ +25°C unless otherwise specified)

Parameter	Conditions	Units	IACM-5			IACM-15			IACM-24		
			IACM-5A	IACM-5E		IACM-15A	IACM-15E		IACM-24A	IACM-24E	
Maximum Output Voltage		VDC			30			30			30
Maximum Output Current $I_{SINK}$		mADC			50			50			50
Maximum Output Leakage Current	$V_{OUT}=Max.$	mA			10			10			10
Maximum Output Voltage Drop	$I_{SINK}=50mA$	VDC			0.2			0.2			0.2
Logic Supply Voltage $V_{CC}$		VDC	3	5	6	12	15	18	20	24	30
Maximum Logic Supply Current	$V_{CC}=Max.$	mADC			15			15			15
Turn-On Time (Nominal)	$I_{SINK}=25mA$	ms			20			20			20
Turn-Off Time (Nominal)	$I_{SINK}=25mA$	ms			30			30			30
Output Type (Open Collector)			Normally Open (SINKING)			Normally Open (SINKING)			Normally Open (SINKING)		

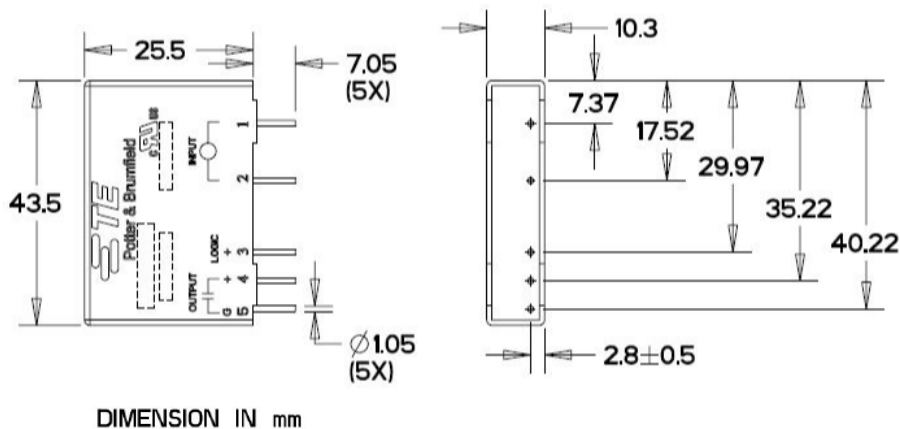
#### IACM Operating Diagram



#### PCB Layout



#### Outline Dimensions



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