



## Input

Part Number	OAC24A	ODC5	ODC5A	ODC5F	ODC5MA
Nominal Voltage VDC	24	5.0	5.0	5.0	5.0
Minimum Voltage VDC (2)	18	2.75	2.75	2.75	2.75
Maximum Voltage VDC	32	8.0	8.0	8.0	8.0
Drop-out Voltage	1.0	1.0	1.0	1.0	1.0
Maximum Current (3)	13	18	18	18	18
Resistance (4)	2000	250	250	250	250

## Output

Nominal Line Voltage	240 VAC	5-48 VDC	5-150 VDC	5-48 VDC	5-150 VDC
Minimum Line Voltage	24 VAC	3.0 VDC	3.0 VDC	3.0 VDC	1.0 VDC
Maximum Line Voltage	280 VAC	60 VDC	250 VDC	60 VDC	200 VDC
Max Off-State Voltage (5)	600 Vpeak	60 VDC	250 VDC	60 VDC	200 VDC
Max Off-State Leakage (6)	0.1mArms	10 uA	10 uA	10 uA	10 uA
Static Off-State dv/dt (7)	200 V/usec	N/A	N/A	N/A	N/A
Maximum Rated On-State Current (8)	3.5 Arms	3.0 A	1.0 A	3.0 A	3.0 A
Minimum On-State Current	50 mArms	10 mA	10 mA	10 mA	1.0 mA
Max Surge Current (9)	100 Apeak	5.0 A	5.0 A	5.0 A	10 A
On-State Voltage Drop or Resistance (10)	1.6 V	1.5 V	1.5 V	1.5 V	0.25 Ohms
Maximum Turn-On Time [msec] (13)	8.33	0.1	0.1	0.025	1.0
Maximum Turn-Off Time [msec] (13)	8.33	0.75	0.75	0.05	0.05
Input/Output Isolation Voltage (14)	4000	4000	4000	4000	1500
Input/Output Capacitance	8	8	8	8	8
Operating Temperature Range	-30 to 80°C	-30 to 80°C	-30 to 80°C	-30 to 80°C	-30 to 80°C
Storage Temperature Range	-40 to 80°C	-40 to 80°C	-40 to 80°C	-40 to 80°C	-40 to 80°C
Line Frequency Range	47 to 63	DC	DC	DC	DC
Weight	1.1 oz. (31.2g)	1.1 oz. (31.2g)	1.1 oz. (31.2g)	1.1 oz. (31.2g)	1.1 oz. (31.2g)

## Input

Part Number	ODC5MC	ODC5ML	ODC24	ODC24A	ODC24F
Nominal Voltage VDC	5.0	5.0	24	24	24
Minimum Voltage VDC (2)	2.75	2.75	18	18	18
Maximum Voltage VDC	8.0	8.0	32	32	32
Drop-out Voltage	1.0	1.0	1.0	1.0	1.0
Maximum Current (3)	18	18	13	13	13
Resistance (4)	250	250	2000	2000	2000

## Output

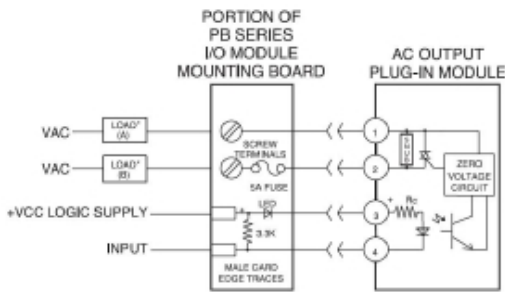
Nominal Line Voltage	5-90 VDC	5-48 VDC	5-48 VDC	5-150 VDC	5-48 VDC
Minimum Line Voltage	1.0 VDC	1.0 VDC	3.0 VDC	3.0 VDC	3.0 VDC
Maximum Line Voltage	100 VDC	50 VDC	60 VDC	250 VDC	60 VDC
Max Off-State Voltage (5)	50 VDC	60 VDC	250 VDC	60 VDC	60 VDC
Max Off-State Leakage (6)	10 uA	10 uA	10 uA	10 uA	10 uA
Static Off-State dv/dt (7)	N/A	N/A	N/A	N/A	N/A
Maximum Rated On-State Current (8)	5.0 A	1.0 A	3.0 A	1.0 A	3.0 A
Minimum On-State Current	1.0 mA	10 mA	10 mA	10 mA	10 mA
Max Surge Current (9)	10 A	10 A	5.0 A	5.0 A	5.0 A
On-State Voltage Drop or Resistance (10)	0.10 Ohms	0.05 Ohms	1.5 V	1.5 V	1.5 V
Maximum Turn-On Time [msec] (13)	1.0	1.0	0.1	0.1	0.025
Maximum Turn-Off Time [msec] (13)	0.05	0.05	0.75	0.75	0.05
Input/Output Isolation Voltage (14)	1500	1500	4000	4000	4000
Input/Output Capacitance	8	8	8	8	8
Operating Temperature Range	-30 to 80°C	-30 to 80°C	-30 to 80°C	-30 to 80°C	-30 to 80°C
Storage Temperature Range	-40 to 80°C	-40 to 80°C	-40 to 80°C	-40 to 80°C	-40 to 80°C
Line Frequency Range	DC	DC	DC	DC	DC
Weight	1.1 oz. (31.2g)	1.1 oz. (31.2g)	1.1 oz. (31.2g)	1.1 oz. (31.2g)	1.1 oz. (31.2g)

## GENERAL NOTES

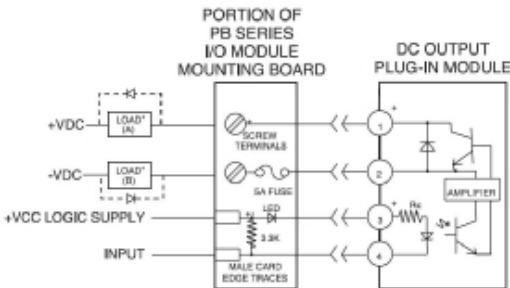
### General Notes:

- (1) Specifications apply to an ambient temperature of -30 to 80 °C unless otherwise noted.
- (2) Without external LED status indicator. Add 1.7 volts for external LED if utilized.
- (3) At nominal input voltage, without external LED status indicator.
- (4) +/-10% at 25°C.
- (5) Maximum 1 minute duration for OAC modules when applied as a DC voltage rather than a peak AC voltage.
- (6) At maximum line voltage, 25°C for OAC modules, and 80°C for ODC modules.
- (7) Minimum DV/DT per EIA/NARM RS433, method RS397. DV/DT ratings do not apply to DC output models
- (8) At 40 °C, derate OAC modules 58 mA/°C to 80°C, derate ODC. ODCxMC and ODCxML modules 50 mA/°C to 80°C. CSA rating of OAC modules is 3.0 Arms at 40°C.
- (9) At 25°C for 1 second maximum duration: 1 AC cycle for AC modules, 1 second for DC modules.
- (10) At maximum rated on-state current and 25°C.
- (11) At maximum line voltage, maximum rated output current, nominal input voltage and 25°C. Switching speed of OAC modules is based upon 60 Hz line frequency.
- (12) At 25°C for 1 second maximum duration.
- (13) 1/3 H.P. at 240 VAC, 1/8 H.P. at 120 VAC.

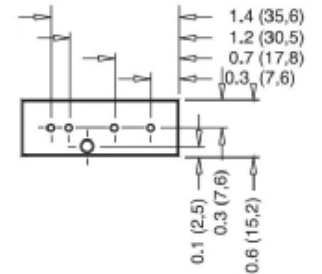
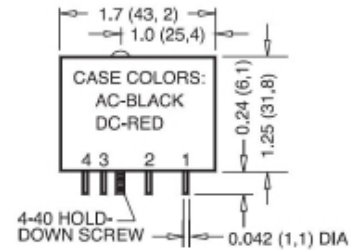
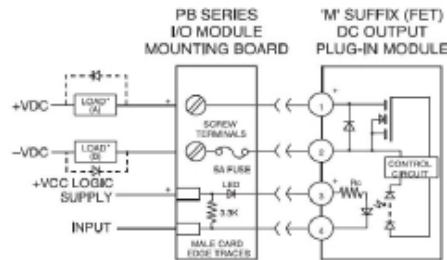
## MECHANICAL SPECIFICATIONS



\* LOAD MAY BE WIRED IN LOCATION A OR B



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DC INDUCTIVE LOADS MUST BE DIODE SUPPRESSED TO PREVENT DAMAGE TO THE I/O MODULE.



DIMENSIONS: INCHES (MILLIMETERS)  
TOLERANCE: ±0.020 (±0,50)

## AGENCY APPROVALS

UL  
CSA  
CE