

DESCRIPTION: Single Phase, Phase Angle Control
APPLICATION: Constant Resistance Loads

Model Number	Fuse Amps	kVA @ Max Rated Volts	Open Chassis Dimensions Inches			Open Chassis List Price	Ventilated Dimensions H x W x D	Enclosure List Price Adder
			Height	Width	Depth			
SINGLE PHASE, 120 VAC INPUT, 0-118 VAC OUTPUT, 50/60Hz								
18D-1-10i	10	1.2	6.25	3.5	3	130.00	10 6 6	Contact Factory
18D-1-20i	20	2.4	6.25	3.5	3	160.00	10 6 6	***
18D-1-30i	30	3.6	6.25	3.5	4	190.00	10 6 6	***
18D-1-50	50	5.9	12	5.5	6	290.00	14 12 8	***
18D-1-80	80	9.4	12	5.5	6	313.00	14 12 8	***
18D-1-120	120	14.1	12.5	6.5	8	521.00	20 16 9	***
18D-1-150	150	17.7	15	9.5	8	532.00	20 16 9	***
18D-1-250	250	30.0	25	9.5	8	759.00	30 20 9	***
18D-1-350	350	41.3	21	13	10.5	852.00	36 24 12	***
SINGLE PHASE, 240 VAC INPUT, 0-238 VAC OUTPUT, 50/60Hz (ALSO FOR 208/220/230 VAC INPUT)								
18D-2-10i	10	2.4	6.25	3.5	3	130.00	10 6 6	Contact Factory
18D-2-15i	15	3.6	6.25	3.5	3	137.00	10 6 6	***
18D-2-20i	20	4.8	6.25	3.5	3	160.00	10 6 6	***
18D-2-30i	30	7.2	6.25	3.5	4	190.00	10 6 6	***
18D-2-50	50	11.9	12	5.5	6	290.00	14 12 8	***
18D-2-80	80	19.0	12	5.5	6	313.00	14 12 8	***
18D-2-120	120	28.5	12.5	6.5	8	521.00	20 16 9	***
18D-2-150	150	35.7	15	9.5	8	532.00	20 16 9	***
18D-2-250	250	60.0	25	9.5	8	759.00	30 20 9	***
18D-2-350	350	83.3	21	13	10.5	852.00	36 24 12	***
SINGLE PHASE, 480 VAC INPUT, 0-478 VAC OUTPUT, 50/60Hz (ALSO FOR 380/415/440 VAC INPUT)								
18D-4-10	10	4.8	7	5.5	4.5	181.00	12 10 8	Contact Factory
18D-4-20	20	9.6	7	5.5	4.5	194.00	12 10 8	***
18D-4-30	30	14.4	7	5.5	5.5	211.00	12 10 8	***
18D-4-50	50	24.0	12	5.5	6	315.00	14 12 8	***
18D-4-80	80	38.4	12	5.5	6	361.00	14 12 8	***
18D-4-120	120	57.6	12.5	6.5	8	521.00	20 16 9	***
18D-4-150	150	72.0	15	9.5	8	532.00	20 16 9	***
18D-4-250	250	120	25	9.5	8	759.00	30 20 9	***
18D-4-350	350	168	21	13	10.5	852.00	36 24 12	***
18D-4-450	450	215	27	17	10.5	976.00	36 24 12	***
18D-4-600	600	288	33	17	10.5	1,507.00	42 30 12	***
18D-4-1200	1200	576	30	24	11	2,611.00	42 30 12	***

NOTES:

- Standard units supplied with:
 - Manual control potentiometer on 2 feet of cable
 - Control isolation transformer (except where noted †)
- For recommended spare fuses, see FUSE CHART, Page 36. Use of any other fuse voids all warranties.
- Effective 8/90, 10-30 Amp sizes at 120 and 240 VAC replaced by 18D-i version (suffix "i" in Model number)
- Enclosures supplied by others must be properly ventilated. See VENT SCHEDULE, Page 37.
- Dimensions are approximate, refer to unit drawing for construction.

List prices may be subject to trade classification discounts. Contact your local Payne Controls Authorized Distributor or representative.

Prices shown are subject to change without notice.

OPTION NAME	OPTION ORDER No.	OPTION DESCRIPTION	LIST PRICE ADDER																		
VOLTAGE LIMIT	9	RMS Output Voltage Limit (Field adjustable)	25.00																		
MILLIAMP CONTROL	11A 11B 11C 11D 11E 11F 11G 11H	<table border="1"> <tr> <td>closed-loop apps only</td> <td>option</td> <td>Optically-isolated input. open- or closed-loop apps.</td> </tr> <tr> <td>1-5 ma., ≤1000 Ω</td> <td>21A</td> <td>1-5 ma., ≤1000 Ω</td> </tr> <tr> <td>2-10ma., ≤1000 Ω</td> <td>21B</td> <td>2-10 ma., ≤1000 Ω</td> </tr> <tr> <td>4-20 ma., ≤600 Ω</td> <td>21C</td> <td>4-20 ma., ≤600 Ω</td> </tr> <tr> <td>12-20 ma., ≤600 Ω</td> <td>21D</td> <td>12-20 ma., ≤600 Ω</td> </tr> <tr> <td>10-50 ma., ≤300 Ω</td> <td>21E</td> <td>10-50 ma., ≤300 Ω</td> </tr> </table> 11F 1-5 volts DC 11G 2-10 volts DC 11H Other. Specify ma. range and input impedance.	closed-loop apps only	option	Optically-isolated input. open- or closed-loop apps.	1-5 ma., ≤1000 Ω	21A	1-5 ma., ≤1000 Ω	2-10ma., ≤1000 Ω	21B	2-10 ma., ≤1000 Ω	4-20 ma., ≤600 Ω	21C	4-20 ma., ≤600 Ω	12-20 ma., ≤600 Ω	21D	12-20 ma., ≤600 Ω	10-50 ma., ≤300 Ω	21E	10-50 ma., ≤300 Ω	38.00
closed-loop apps only	option	Optically-isolated input. open- or closed-loop apps.																			
1-5 ma., ≤1000 Ω	21A	1-5 ma., ≤1000 Ω																			
2-10ma., ≤1000 Ω	21B	2-10 ma., ≤1000 Ω																			
4-20 ma., ≤600 Ω	21C	4-20 ma., ≤600 Ω																			
12-20 ma., ≤600 Ω	21D	12-20 ma., ≤600 Ω																			
10-50 ma., ≤300 Ω	21E	10-50 ma., ≤300 Ω																			
CURRENT LIMIT	12	RMS Output Current Limit (Field Adjustable, includes current transformer)	115.00																		
ISOLATED CHASSIS	14A 14B	For installation in non-vented enclosures. Electrically Isolated Chassis, 10-30A Electrically Isolated Chassis, 50-80A	65.00 97.00																		
SOFT START	19	1/2 second voltage ramp, to reduce inrush current.	25.00																		
OPTICALLY ISOLATED ma. EXTERNAL CONTROL CARD	20A 20B 20C 20D 20E 20H	Optically isolated. May be field installed. Suitable for open-loop control. 1-5 ma., ≤1000 Ω 2-10ma., ≤1000 Ω 4-20 ma., ≤600 Ω 12-20 ma., ≤600 Ω 10-50 ma., ≤300 Ω Other. Specify ma. range and input impedance.	65.00																		
RETROFIT	22	To physically replace units built prior to 8/90. 120, 240 VAC, 10-30 Amps only	38.00																		
HEATSINK OVERTEMP SWITCH	24A 24B	Overtemp trip of controller. For external indicating circuit or alarm.	55.00																		
120V PILOT	28	120 VAC On/Off Pilot Control	38.00																		
EXTERNAL POWER	33	External trigger circuit power. Specify voltage to be supplied.	38.00																		
277 VAC INPUT	18D- 3 -etc.	Rated for 277 VAC Input. (Change Model No. from 18D-4-etc. to 18D-3-etc.)	N/C																		
550 VAC INPUT	18D- 5 -etc.	Rated for 550 VAC Input. (Change Model No. from 18D-4-etc. to 18D-5-etc.)	38.00																		
600 VAC INPUT	18D- 6 -etc.	Rated for 600 VAC Input. (May require size increase of base model.) (Change Model No. from 18D-4-etc. to 18D-6-etc.)	210.00																		

18D OPTION NOTES:

- To order, specify option number separately, and add option price to control list price.
- See page 38 for detailed option description.
- Options must be ordered with control (except Option 20)
- Certain combinations of options may not be compatible. Consult local representative or factory.
- Consult factory for option requirements not shown.