

# ELECTRICAL DATA

## Typical Electrical Data - Fluorescent Circuits Switch start and electronic start control gear

Nominal Lamp Watts	Lamp Type	Total Circuit Watts	Power Factor	VA
<b>Compact Fluorescent</b>				
2 x 9	TC-S	21	0.87	24.1
1 x 11	TC-S	14	0.87	16.1
1 x 13	TC-D	18	0.87	20.7
2 x 13	TC-D	36	0.87	41.4
1 x 16	2D	21	0.46	45.7
1 x 18	TC-D/L/T	24	0.91	26.4
2 x 18	TC-D/L/T	48	0.91	52.7
1 x 26	TC-D/T	32	0.90	35.6
2 x 26	TC-D/T	64	0.90	71.1
1 x 28	2D	34	0.91	37.4
1 x 38	2D	49	0.91	53.8
<b>Linear Fluorescent</b>				
1 x 8	T5 Miniature	12	0.87	13.8
2 x 8	T5 Miniature	21	0.87	46.7
1 x 18	T8	26	0.88	29.5
2 x 18	T8	48	0.88	54.5
3 x 18	T8	78	0.88	88.6
4 x 18	T8	96	0.88	109.1
1 x 36	T8	48	0.91	52.7
2 x 36	T8	96	0.91	105.5
3 x 36	T8	144	0.91	158.2
4 x 36	T8	192	0.91	211.0
1 x 58	T8	69	0.87	79.3
2 x 58	T8	138	0.87	158.6
3 x 58	T8	207	0.87	237.9
1 x 70	T8	81	0.87	93.1
2 x 70	T8	162	0.87	186.2
1 x 100	T12	117	0.95	123.2
2 x 100	T12	234	0.95	246.3
1 x 125	T12	136	0.95	143.2
2 x 125	T12	272	0.95	286.3

Data based on 240V, 50Hz

## Typical Electrical Data - Fluorescent Circuits High frequency control gear

Nominal Lamp Watts	Lamp Type	Total Circuit Watts	Power Factor	VA
<b>Compact Fluorescent</b>				
1 x 13	TC-D	15	0.97	15.5
2 x 13	TC-D	28	0.97	28.9
1 x 16	2D	16	0.96	16.7
1 x 18	TC-D/L/T	20	0.97	20.6
2 x 18	TC-D/L/T	39	0.97	40.2
1 x 26	TC-D/T	28	0.97	28.9
2 x 26	TC-D/T	57	0.97	58.8
1 x 28	2D	28	0.96	29.2
1 x 32	TC-D	35	0.95	36.8
1 x 36	TCL	38	0.97	38.7
2 x 36	TCL	74	0.99	74.7
1 x 38	2D	36	0.96	37.5
1 x 40	TCL	43	0.98	43.9
2 x 40	TCL	88	0.99	88.8
1 x 42	TC-D	46	0.95	48.4
1 x 55	TCL	62	0.99	62.1
2 x 55	TCL	118	0.99	118.5
1 x 55	2D	60	0.98	60.8
<b>Linear Fluorescent</b>				
1 x 14	T5 (HE)	18	0.91	19.8
2 x 14	T5 (HE)	32	0.95	33.7
1 x 18	T8	18	0.98	18.4
2 x 18	T8	37	0.98	37.8
3 x 18	T8	54	0.96	56.3
4 x 18	T8	72	0.96	75.0
1 x 21	T5 (HE)	25	0.96	26.0
2 x 21	T5 (HE)	46	0.97	47.4
1 x 22 + 40	T5 Circular	70	0.97	72.2
1 x 24	T5 (HO)	28	0.96	29.2
2 x 24	T5 (HO)	51	0.98	52.0
1 x 28	T5 (HE)	33	0.98	33.7
2 x 28	T5 (HE)	62	0.99	62.6
1 x 35	T5 (HE)	40	0.98	40.8
2 x 35	T5 (HE)	77	0.99	83.8
1 x 36	T8	36	0.98	36.7
2 x 36	T8	72	0.98	73.5
3 x 36	T8	108	0.98	110.2
4 x 36	T8	144	0.98	146.9
1 x 39	T5 (HO)	45	0.99	45.5
2 x 39	T5 (HO)	83	0.99	83.8
1 x 49	T5 (HO)	56	0.99	56.6
2 x 49	T5 (HO)	111	0.99	112.1
1 x 54	T5 (HO)	61	0.99	61.6
2 x 54	T5 (HO)	118	0.99	119.2
1 x 58	T8	55	0.98	56.1
2 x 58	T8	110	0.98	112.2
1 x 70	T8	66	0.98	67.3
2 x 70	T8	133	0.98	135.7
1 x 80	T5 (HO)	86	0.95	90.5

# ELECTRICAL DATA

Approximate max quantity of high frequency ballast controllable by type 3/type C MCB's

Ballast Rating (Watts)	Lamp Type	C10 MCB	C16 MCB
<b>Compact Fluorescent</b>			
1 x 13	TC-D	80	80
2 x 13	TC-D	80	80
1 x 16	2D	80	80
1 x 18	TC-D/L/T	80	80
2 x 18	TC-D/L/T	30	80
1 x 22 + 40	T5 circular	29	47
1 x 26	TC-D/T	30	80
2 x 26	TC-D/T	32	80
1 x 28	2D	32	66
1 x 32	TC-D	30	80
1 x 36	TC-L	30	80
2 x 36	TC-L	20	40
1 x 38	2D	20	40
1 x 40	TC-L	30	80
2 x 40	TC-L	14	26
1 x 42	TC-D	30	80
1 x 55	TC-L	20	40
2 x 55	TC-L	10	20
<b>Linear Fluorescent</b>			
1 x 14	T5 (HE)	29	48
2 x 14	T5 (HE)	15	20
3 x 14	T5 (HE)	12	20
4 x 14	T5 (HE)	12	20
1 x 18	T8	46	80
2 x 18	T8	30	68
3 x 18	T8	30	66
4 x 18	T8	20	40
1 x 21	T5 (HE)	29	48
2 x 21	T5 (HE)	15	20
1 x 24	T5 (HO)	29	48
2 x 24	T5 (HO)	15	20
1 x 28	T5 (HE)	29	48
2 x 28	T5 (HE)	15	20
1 x 35	T5 (HE)	29	48
2 x 35	T5 (HE)	15	20
1 x 36	T8	32	70
2 x 36	T8	20	40
1 x 39	T5 (HO)	29	48
2 x 39	T5 (HO)	15	20
1 x 49	T5 (HO)	29	48
2 x 49	T5 (HO)	15	20
1 x 54	T5 (HO)	29	48
2 x 54	T5 (HO)	15	20
1 x 58	T8	32	66
2 x 58	T8	14	26
1 x 70	T8	20	40
2 x 70	T8	10	20
1 x 80	T5 (HO)	12	20

Typical Electrical Data - Discharge Circuits

Nominal Lamp Watts	Total Circuit Watts	Start Current (A)	Mains Running VA	Power factor	Capacitor Value (uF)
<b>High Pressure Sodium (SON)</b>					
50	62	0.77	70	0.89	10
70	86	1.00	94	0.92	12
150	172	1.80	200	0.86	20
250	276	3.00	325	0.85	32
400	431	4.40	501	0.86	45
<b>Metal Halide</b>					
35	42.5	0.53	47	0.90	6
70	81	0.98	89	0.91	12
100	115	1.00	126	0.91	12
150	170	1.80	187	0.91	20
250	276	3.00	325	0.85	32
400	431	3.50	501	0.86	45
<b>Mercury</b>					
50	62	0.60	65	0.95	7
80	94	0.80	106	0.89	8
125	141	1.15	160	0.88	10
250	275	2.15	316	0.87	18
400	435	3.25	494	0.88	25

Allowance should be made for inrush current on start up. Contact Technical Support if further detail is required

Approximate max quantity of discharge lamps controllable by type 3/type C MCB's

Lamp Power and Type	C10 MCB	C16 MCB	C20 MCB
50W SON	19	31	39
50W MBF	16	24	31
70W SON & HQI	12	18	23
80W MBF	12	19	24
125W MBF	7	12	15
150W SON & HQI	7	11	14
250W SON & HQI	5	7	9
250W MBF	4	6	7
400W SON & HQI	3	4	5
400W MBF	2	4	5

Data based on 240V 50Hz, luminaires fitted with compensation capacitor

This table is provided for general guidance only. If specific advice is required, please contact Technical Support for ballast characteristics. This information should then be relayed to the MCB manufacturer for advice on suitable breaker types.