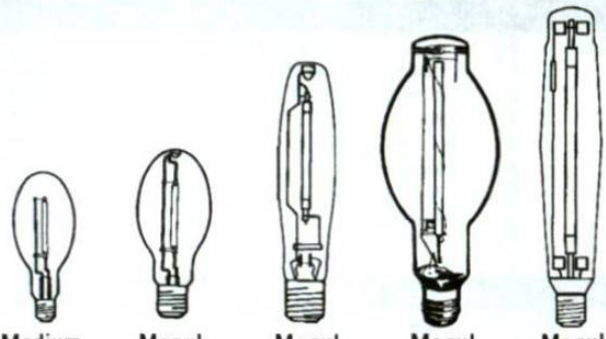
APENDICE

A) Información técnica de fabricantes de equipos de iluminación

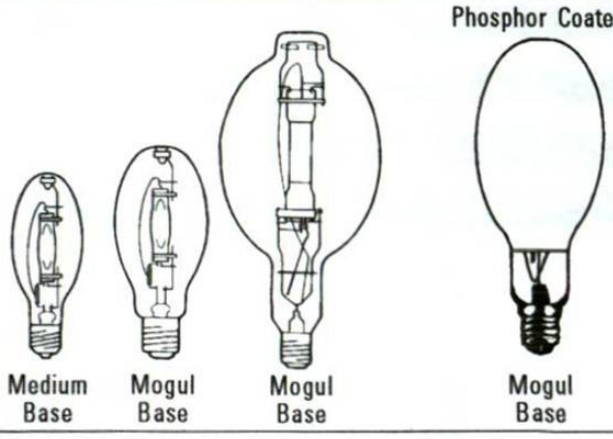
LAMP DATA

The following data represents inputs available from lamp manufacturers at the time of publication of this catalog. We suggest that you consult the most current lamp data available for critical design purposes.

HIGH PRESSURE SODIUM (HPS) LAMPS



METAL HALIDE AND MERCURY LAMPS



HIGH INTENSITY DISCHARGE LAMPS

High Intensity Discharge (HID) lamps are those which have a gaseous discharge arc tube, operating at pressures and current densities sufficient to generate desired quantities of visible radiation within their arcs alone. These lamp types have become popular primarily for three reasons.

1. High efficacy – more lumens per watt of power consumed.
2. Long lamp life and good lumen maintenance – reduces operating expenses.
3. Compact source – permits good light control by use of reflectors and refractors, resulting in high system efficiency.

The three principal HID lamps now in common use are mercury, metal halide and high pressure sodium (HPS).

STROBOSCOPIC EFFECT

HID lamp output tends to follow the alternating current waveform. This can cause small moving objects to flicker. To avoid this annoyance, three-phase power is suggested for mercury and HPS lamps. Split phase ballasting can also be used with mercury lamps. Single-phase power can be used with metal halide lamps.

LAMP WARM-UP CHARACTERISTICS

(TIME TO REACH 80% LIGHT OUTPUT)

Mercury	5-7 minutes
Metal Halide	2-4 minutes
High Pressure Sodium	3-4 minutes

HID RESTRIKE CHARACTERISTICS

All HID lamps will deionize when there is a power interruption or if the lamp socket voltage drops below the amount required to sustain the arc for more than a few cycles. Because it takes greater voltage to ionize the arc tube vapors while they are hot and under high pressure, the lamp will not restart immediately. Hot lamp instant restart is available for certain products and wattage ratings (see product pages).

TIME TO RESTRIKE

Mercury	3-6 minutes
Metal Halide	10-15 minutes
Pulse Start Metal Halide	Approximately 4 Minutes
High Pressure Sodium	1 minute

LIGHT LOSS FACTOR

The lighting system light loss factor (LLF) is the product of the lamp lumen depreciation (LLD) and the luminaire dirt depreciation (LDD). The lamp lumen depreciation is given in manufacturer's lamp tables for both the "mean" and the "end of relamping period." The mean value is taken at approximately 40% life for metal halide and 50% life for HPS lamps. For mercury lamps the value is taken at 8,000 hours. This is due to the lamp lumen depreciation characteristics of mercury lamps. A 16,000-hour economic life is suggested for this lamp. The values for "end of relamping period" are taken at the end of the lamp's life. The user may also use a more convenient group relamping period and should adjust the value accordingly.

Luminaire dirt depreciation (LDD) is a function of the in-service conditions and the type of luminaire. Enclosed and filtered luminaires have built-in maintenance characteristics which reduce the amount and effect of dirt accumulation. While it is not possible to select one number to describe all conditions, the following LDD values are suggested.

OUTDOOR APPLICATIONS

LUMINAIRE TYPE	LUMINAIRE DIRT DEPRECIATION (LDD)
Enclosed and filtered	0.95
Unfiltered	0.80

INDOOR APPLICATIONS

LUMINAIRE TYPE	LUMINAIRE DIRT DEPRECIATION (LDD)		
	Light	Medium	Heavy
Enclosed and filtered	0.97	0.93	0.88
Enclosed	0.94	0.86	0.77
Open and ventilated	0.94	0.84	0.74

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METAL HALIDE LAMP DATA (See WARNING, Next Page)

ORDERING ABREVIATION	ANSI CODE	FINISH	LIGHT CENTER LENGTH INCHES	VERTICAL BURNING INITAL LUMENS	VERTICAL BURNING RATED AVERAGE LIFE 10 HOURS PER START	HORIZONTAL BURNING INITIAL LUMENS	HORIZONTAL BURNING RATED AVERAGE LIFE 10 HOURS PER START
70-WATT (ENCLOSED FIXTURE ONLY) — MEDIUM BASE, REQUIRES STARTING AID							
MXR70/U/MED	M98SJ-70/U	Clear	3-7/16	5,500	10,000	5,300	7,500
100-WATT (ENCLOSED FIXTURE ONLY) — MEDIUM BASE, REQUIRES STARTING AID							
MXR100/U/MED	M90TW-100/U	Clear	3-3/8	9,000	15,000	8,500	15,000
175-WATT (ENCLOSED FIXTURE ONLY) — MOGUL BASE							
MVR175/U	M57PE-175/U	Clear	5	14,000	10,000	12,000	6,000
MXR175/BU	M57PE-175/XBU	Clear	5	16,600	10,000	–	–
MXR175/BD	M57PE-175/XBD	Clear	5	16,600	10,000	–	–
MXR175/C/BU	M57PF-175/XBU	Coated	5	15,800	10,000	–	–
MXR175/C/BD	M57PF-175/XBD	Coated	5	15,800	10,000	–	–
MVR175/C/U	M57PF-175/U	Coated	5	13,200	10,000	11,300	6,000
MVR175/BU/E**	–	Clear	5	16,800	15,000	–	–
MVR175/C/BU/E**	–	Coated	5	16,800	15,000	–	–
MXR175/BU/E**	–	Clear	5	17,100	15,000	–	–
MXR175/C/BU/E**	–	Coated	5	16,250	15,000	–	–
175-WATT (ENCLOSED FIXTURE ONLY) — MEDIUM BASE							
MVR175/U/MED	M57-	Clear	3-7/16	14,000	10,000	12,000	6,000
MVR175/C/U/MED	M57-	Coated	3-7/16	12,400	10,000	11,400	6,000
250-WATT (ENCLOSED FIXTURE ONLY) — MOGUL BASE							
MVR250/U	M58PG-250/U	Clear	5	21,000	10,000	19,500	6,000
MVR250/C/U	M58PH-250/U	Coated	5	19,800	10,000	18,300	6,000
MS250/BU/ER	–	Clear	5	23,750	20,000	–	–
MS250/C/BU/ER	–	Coated	5	22,600	20,000	–	–
320 WATT (PULSE START AND ENCLOSED FIXTURE ONLY) — MOGUL BASE							
MS320/PS/BU ONLY**	M132	Clear		32,000	15,000	–	–
350 WATT (PULSE START ONLY) — MOGUL BASE							
MP350/V**	M131PJ-350	Clear		36,000	20,000	–	–
400-WATT (REDUCED OUTER JACKET LAMP) — MOGUL BASE							
MVR400/HBD/ED28	M59-	Clear	5	36,000	20,000	32,000	15,000
400-WATT — MOGUL BASE							
MVR400/U*	M59PJ-400/U	Clear	7	36,000	20,000	32,000	15,000
MVR400/C/U*	M59PK-400/U	Coated	7	33,900	20,000	30,100	15,000
MVR400/VBU‡*	M59PJ-400/VBU	Clear	7	41,000	20,000	–	–
MVR400/VBD*	M59PJ-400/VBD	Clear	7	41,000	20,000	–	–
MVR400/C/VBU‡*	M59PK-400/VBU	Coated	7	37,600	20,000	–	–
MVR400/C/VBD*	M59PK-400/VBD	Coated	7	37,600	20,000	–	–
MVR400/VBU/XL	M59PJ-400/VBU	Clear	7	42,000	20,000	–	–
MVR400/C/VBU/XL	M59PK-400/VBU	Coated	7	39,600	20,000	–	–
MVR400/BU/E**	–	Clear	7	44,000	20,000	–	–
MVR400/C/BU/E**	–	Coated	7	42,000	20,000	–	–
MXR400/BU/E**	–	Clear	7	44,000	20,000	–	–
MXR400/C/BU/E**	–	Coated	7	42,000	20,000	–	–
400-WATT (POSITION-ORIENTED MOGUL BASE-POMB) ENCLOSED FIXTURES ONLY							
MVR400/HOR†	M59PJ-400/HOR	Clear	7	–	40,000	–	20,000
1000-WATT — MOGUL BASE							
MVR1000/U*	M47PA-1000/U	Clear	9-1/2	110,000	12,000	107,800	12,000
MVR1000/C/U*	M47PB-1000/U	Coated	9-1/2	105,000	12,000	100,000	12,000
MVR1000/VBU‡*	M47PA-1000/VBU	Clear	9-1/2	115,000	12,000	–	–
MVR1000/VBD*	M47PA-1000/VBD	Clear	9-1/2	115,000	12,000	–	–
MS1000/HOR/SPORT60†	M47--	Clear	9-1/2	–	–	115,000	12,000
MS1000/U/BT37	M47--	Clear	7	110,000	12,000	107,800	12,000
1500-WATT (ENCLOSED FIXTURE ONLY) — MOGUL BASE							
MVR1500/HBU	M48PC-1500/HBU	Clear	9-1/2	155,000	3,000	150,000	3,000
MVR1500/HBD	M48PC-1500/HBD	Clear	9-1/2	155,000	3,000	150,000	3,000
MH1500/U/XL	M48--	Clear	9-1/2	155,000	6,000	–	–
MS1500/HOR/XP/SPORT60†	M48--	Clear	9-1/2	–	–	162,000	3,000
DOUBLE ENDED METAL HALIDE — HORIZONTAL BURNING ± 4° (ENCLOSED FIXTURE ONLY) WIRE LEADS							
MQI/1500/T8/40	–	Clear	5	–	–	150,000	6,000
MQI/2000/T9/40	–	Clear	5	–	–	200,000	3,000

‡SAF-T-GARD* lamps are available. Lamp designation is changed from MVR to MVT. Lumens and Life data are reduced.
*Vertical ± 15°, open fixture–all other, enclosed fixture. **Requires ballast with pulse ignitor † - POMB Base (Position Oriented Mogul Base)

NOTE: Longer than rated lamp life can occur when operating cycles exceed an average of 10 hours per start - contact lamp manufacturer. Consult lamp manufacturer for lamp lumen depreciation. All MXR lamps have an apparent color temperature rated at 3,200° Kelvin and all MVR lamps have an apparent color temperature of 4,000° Kelvin.

IGH PRESSURE SODIUM LAMP DATA

DERING BREVIATION	ANSI CODE	FINISH	Light CENTER LENGTH INCHES	INITIAL LUMENS
WATT–LIFE AT 10 HOURS/START = 16,000 HOURS				
35/Med	S76-HA-35	Clear	3-13/32	2,250
35/D/Med	S76-HB-35	Diffuse	3-13/32	2,150
WATT–LIFE AT 10 HOURS/START = 24,000 * HOURS				
50/Med	S68-XX-50	Clear	3-13/32	4,000
50/D/Med	S68-YY-50	Diffuse	3-13/32	3,800
50	S68-MS-50	Clear	5	4,000
50/D	S68-MT-50	Diffuse	5	3,800
WATT–LIFE AT 10 HOURS/START = 24,000 * HOURS				
70/Med	S62-LG-70	Clear	3-13/32	6,400
70/D/Med	S62-LH-70	Diffuse	3-13/32	5,950
WATT–LIFE AT 10 HOURS/START = 24,000 * HOURS				
70	S62-ME-70	Clear	5	6,400
70/D	S62-MF-70	Diffuse	5	5,950
-WATT–LIFE AT 10 HOURS/START = 24,000 * HOURS				
100/Med	S54-SG-100	Clear	3-13/32	9,500
100/D/Med	S54-SH-100	Diffuse	3-13/32	8,800
100	S54-SB-100	Clear	5	9,500
100/D	S54-MC-100	Diffuse	5	8,800
WATT–LIFE AT 10 HOURS/START = 24,000 * HOURS				
150/Med	S55-RN-150	Clear	3-1/2	16,000
150/D/Med	S55-RP-150	Diffuse	3-1/2	15,000
150/55	S55-SC-150	Clear	5	16,000
150/55/D	S55-MD-150	Diffuse	5	15,000
150/100	S56-SD-150	Clear	5	15,000
150/100/D	S56-SE-150	Diffuse	5	14,000
-WATT–LIFE AT 10 HOURS/START = 24,000 * HOURS				
200	S66-MN-200	Clear	5-3/4	22,000
-WATT–LIFE AT 10 HOURS/START = 24,000 * HOURS				
250	S50-VA-250	Clear	5-3/4	28,000
250/D	S50-VC-250	Diffuse	5	26,000
250/S	S50-VA-250	Clear	5-3/4	30,000
-WATT–LIFE AT 10 HOURS/START = 24,000 * HOURS				
310	S67-MR-310	Clear	5-3/4	37,000
-WATT–LIFE AT 10 HOURS/START = 18,000 * HOURS				
350	S129-AG-350	Clear	5-3/4	50,000
-WATT–LIFE AT 10 HOURS/START = 24,000 * HOURS				
400	S51-WA-400	Clear	5-3/4	61,000
400/D	S51-WB-400	Diffuse	7	47,500
-WATT–LIFE AT 10 HOURS/START = 24,000 * HOURS				
750	S111-NH-750	Clear	6-7/8	110,000
0-WATT–LIFE AT 10 HOURS/START = 24,000 * HOURS				
1000	S52-XB-1000	Clear	8-3/4	140,000

TE: Consult lamp manufacturer for lamp lumen depreciation.

ORDERING ABBREVIATION	ANSI CODE	FINISH	LIGHT CENTER LENGTH INCHES	INITIAL LUMENS
DELUXE LAMPS				
70-WATT–RATED LIFE AT 10 HOURS/START = 10,000 HOURS				
LU70/DX/Med	S62-LG-70/DX	Clear	3-1/2	3,800
LU70/DX/D/Med	S62-LH-70/DX	Diffuse	3-1/2	3,600
150-WATT–RATED LIFE AT 10 HOURS/START = 15,000 * HOURS				
LU150/DX/Med	S55-RN-150/DX	Clear	3-1/2	10,500
LU150/DX/D/Med	S55-RP-150/DX	Diffuse	3-1/2	9,900
LU150/55/DX	S55-MC-150/DX	Clear	5	10,500
LU150/DX/D	S55-MD-150/DX	Diffuse	5	9,900
250-WATT–RATED LIFE AT 10 HOURS/START = 15,000 * HOURS				
LU250/DX	S50-VA-250/DX	Clear	5-3/4	22,500
LU250/DX/D	S50-VC-250/DX	Diffuse	5	20,000
400-WATT–RATED LIFE AT 10 HOURS/START = 15,000 * HOURS				
LU400/DX	S51-WA-400/DX	Clear	5-7/32	37,400
LU400/DX/D	S51-WB-400/DX	Diffuse	5-7/32	35,500

NOTE

Similar wattage clear, diffuse, or deluxe HPS lamps may not have the same bulb size or light center length. If lamps are interchanged, the socket position may need to be changed to obtain the desired photometric distribution.

Most GE Lighting Systems products will be furnished with mogul base sockets. Any exceptions will be noted on product pages. Medium base socket must be rated for 4KV.

AVERAGE LIFE VS. HOURS/START‡

HOURS/START	ESTIMATED AVG. LIFE
Continuous	Greater than 100%. Varies with lamp rating and ballast. Contact factory
10	100%
5*	75%
2.5	56%
1.2	42%

‡Applies to HPS, Metal Halide and Mercury lamps.
* Rating standard for 1500, 1650 and 2000 watt lamps. Contact factory for life on other burning cycles.

METAL HALIDE AND MERCURY LAMP DATA (See WARNING below)

METAL HALIDE LAMP TILT FACTOR

When the following metal halide lamps are operated in other-than-vertical positions (as in floodlights), initial vertical-burning lumens are reduced by the multipliers in this table.

LAMP	ANGLE OFF VERTICAL* 0°	15°	30°	45°	60°	75°	90°
MVR1500/HBD/E MVR1500/HBU/E MVR1000/U	1.0	0.95	0.94	0.90	0.88	0.87	0.98
MVR400/U and lower wattages	1.0	0.95	0.94	0.90	0.88	0.87	0.94

*This data is for GE lamps only.

METAL HALIDE BURNING POSITIONS

MXR175/VBU or VBD MVR400/VBU or VBD MVR1000/VBU or VBD	Vertical burning only BU–Base up ± 15° BD–Base down ± 15°
MXR70U,M100/U, MVR175/U,MVR250/U, MVR400/U,MVR1000/U	Universal burning
MVR1500/HBU or HBD	HBU–Base up to 15° below horizontal HBD–Base down to 15° above horizontal
MVR400/HOR MS1000/HOR, MS1500/HOR, MS1600/HOR	Horizontal ± 15° Horizontal ± 60°

MERCURY LAMP DATA

ORDERING ABBREVIATION	ANSI CODE	FINISH	LIGHT CENTER LENGTH INCHES	VERTICAL BURNING INITIAL LUMENS	HORIZONTAL BURNING INITIAL LUMENS
100-WATT–LIFE 24,000 HOURS 10 HOURS/START–MOGUL BASE					
HR100A38	H38HT-100	Clear	5	3,850	3,650
HR100DX38†	H38JA-100/DX	Deluxe	5	4,200	4,200
175-WATT–LIFE 24,000 HOURS 10 HOURS/START–MOGUL BASE					
HR175A39	H39KB-175	Clear	5	7,950	7,570
HT175DX39†	H39KC-175/DX	Deluxe	5	8,600	8,600
HR175WDX39	H39KC-175/W DX	Warm DX	5	7,000	7,000
250-WATT–LIFE 24,000 HOURS 10 HOURS/START–MOGUL BASE					
HR250A37	H37KB-250	Clear	5	11,200	10,700
HR250DX37†	H37KC-250/DX	Deluxe	5	12,100	12,100
HR250WDX37	H37KC-250/W DX	Warm DX	5	10,000	10,000
400-WATT–LIFE 24,000 HOURS 10 HOURS/START–MOGUL BASE					
HR400A33	H33CD-400	Clear	7	21,000	20,000
HR400DX33†	H33GL-400/DX	Deluxe	7	22,500	22,500
HR400WDX33	H33GL-400/W DX	Warm DX	7	19,500	19,500
1000-WATT–LIFE 24,000 HOURS 10 HOURS/START–MOGUL BASE					
HR1000A36	H36GV-1000	Clear	9-1/2	57,000	54,000
HR1000DX36†	H36GW-1000/DX	Deluxe	9-1/2	63,000	60,000

†SAF-T-GARD® lamps are available. Lamp designation is changed from HR to HT, lumens reduced approximately 10% and life of the 100W and 175W is only 16,000 hrs.

WARNING

(ALL MERCURY AND METAL HALIDE LAMPS)

This lamp can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or punctured and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available from the General Electric Company. These are self-extinguishing Safe-T-Gard® mercury and Multi-Vapor® metal halide lamps.

QUARTZ HALOGEN LAMP DATA

ORDERING ABBREVIATION	RATED WATTS	RATED VOLTS	MAX OVERALL LENGTH, IN.	BURNING POSITION	APPROXIMATE LUMENS INITIAL	MEAN	LIFE HOURS
Q225T2/CL/HIR	225	120	4-11/16	Horiz.	5,950	5,652	3,000
Q300T3/CL(EHM)	300	120	4-11/16	Horiz.	5,950	5,760	2,000
Q350T3/CL/HIR	350	120	4-11/16	Horiz.	10,000	9,500	2,000
Q425T3/CL	425	120	4-11/16	Horiz.	8,900	8,600	2,000
Q500T3/CL(FCL)	500	120	4-11/16	Horiz.	11,100	10,750	2,000
Q500T3/CL(DVS)	500	130	4-11/16	Horiz.	10,550	10,250	2,000
Q900T3/CL/HIR	900	240	10-1/16	Horiz.	32,000	30,400	2,000
Q1500T3/CL	1500	208	10-1/16	Horiz.	35,800	34,700	2,000
	1500	220	10-1/16	Horiz.	35,800	34,700	2,000
	1500	240	10-1/16	Horiz.	35,800	34,700	2,000
LAMPS FOR INSTANT-ON AUTOMATICALLY SWITCHED QUARTZ							
Q100CL/DC	100	120	2-7/16	Vert.	1,600	–	2,000
Q150CL/DC	150	120	2-1/2	Any	2,800	2,600	2,000
Q250CL/DC	250	120	3	Any	5,000	4,850	2,000

FLUORESCENT LAMP DATA

ORDERING ABBREVIATION	WATTS	LENGTH (In.)	INITIAL LUMENS	MEAN LUMENS	LIFE (HOURS)*	STARTING TEMP °F	BASE STYLE
FOR H4 LUMINAIRE							
F40/30BX/SPX30/RS	39	22-1/2	3,150	2,840	20,000	50	2G11, Single End, 4-Pin
FOR MINI•GARD LUMINAIRE							
F13DBX23T4/SPX27	13	4.8	860	730	10,000	32	GX23-2, Single End, 2-Pin
F13DBXT4/SPX27	13	5.6	900	765	10,000	5	G24d-1, Single End, 2-Pin
F26DBXT4/SPX27	26	7.6	1,800	1,530	10,000	15	G24d-3, Single End, 2-Pin
FOR OFL LUMINAIRE							
F13BX/SPX41	13	7-1/2	825	710	10,000	32	GX23, Single End, 2-Pin
FOR WFL LUMINAIRE							
PL-C15mm/22W/27	22	5-15/16	1,200	–	–	-20	GX32d-2, Single-End, 2-Pin

NOTE: *3 Hours/Start; will be longer at 10 Hours/Start

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Vapor de Mercurio

reactor serie y autotransformador alta reactancia

POTENCIA DE LAMP.	TIPO DE LAMP.	TENSION DE LINEA	NUMERO DE CATALOGO	CIRCUITO TIPO	POTENCIA DE LINEA	CORRIENTE DE LINEA		TENSION DE CIRCUITO ABIERTO	DIAG. DE CONEX.	DIMENSIONES			PESO TOTAL Kg.	CAPACITOR		No. DE PZAS.
						B.F.P.	A.F.P.			FIG. No.	A (mm)	B (mm)		FIG. No.	C (mm)	
1-80	HPL-N80	220	6LD9006 /AB	R	98	0.80	–	220	A	1	25	60	1.250	–	–	–
1-100	H-38	127	71C9239 /AB	HX	120	2.00	–	260	C	3	37	67	3.185	–	–	–
		127	71HC9239 /AB	HX	120	–	1.00	260	B	3	37	67	3.300	A	98.4	1
		220	6LD9040 /AB	R	110	0.86	–	220	A	1	25	60	1.165	–	–	–
		220	6HD9040 /AB	R	110	–	0.53	220	B	1	25	60	1.500	A	60.3	1
		254	71C9242 /AB	HX	120	0.98	–	260	C	3	37	67	3.185	–	–	–
		277	71C9243 /AB	HX	120	0.90	–	260	C	3	37	67	3.185	–	–	–
		440	71C9244 /AB	HX	120	0.57	–	260	C	3	37	67	3.185	–	–	–
1-125	H-42	127	71C9263 /AB	HX	150	2.50	–	260	C	3	30	60	3.225	–	–	–
		220	6LD9064 /AB	R	140	1.15	–	220	A	1	38	73	1.485	–	–	–
		220	6HD9064 /AB	R	140	–	0.68	220	B	1	38	73	1.860	A	60.3	1
		254	71C9265 /AB	HX	150	1.20	–	260	C	3	30	60	3.225	–	–	–
		277	71C9266 /AB	HX	150	1.10	–	260	C	3	30	60	3.225	–	–	–
		440	71C9267 /AB	HX	150	0.68	–	260	C	3	30	60	3.225	–	–	–
1-175	H-39	127	71C9233 /AB	HX	200	3.50	–	265	C	3	37	67	3.310	–	–	–
		220	6LD9034 /AB	R	190	1.50	–	220	A	1	44	79	1.610	–	–	–
		220	6HD9034 /AB	R	190	–	0.92	220	B	1	44	79	1.980	A	60.3	1
		254	71C9236 /AB	HX	200	1.60	–	265	C	3	37	67	3.310	–	–	–
		277	71C9237 /AB	HX	200	1.45	–	265	C	3	37	67	3.310	–	–	–
		440	71C9238 /AB	HX	200	0.90	–	265	C	3	37	67	3.310	–	–	–
1-250	H-37	127	71C9221 /AB	HX	285	4.40	–	260	C	3	51	81	4.475	–	–	–
		220	71C9222 /AB	HX	285	2.55	–	260	C	3	51	81	4.475	–	–	–
		220	6LD9022 /AB	R	270	2.10	–	220	A	2	39	73	2.200	–	–	–
		220	6HD9022 /AB	R	270	–	1.30	220	B	2	39	73	2.640	A	60.3	1
		254	71C9224 /AB	HX	285	2.25	–	260	C	3	51	81	4.475	–	–	–
		277	6LD9025 /AB	R	270	2.10	–	220	A	2	39	73	2.200	–	–	–
		277	6HD9025 /AB	R	270	–	1.05	220	B	2	39	73	2.640	A	60.3	1
		440	71C9226 /AB	HX	285	1.30	–	260	C	3	51	81	4.475	–	–	–
1-400	H-33	220	6LD9016 /AB	R	430	3.20	–	220	A	2	53	83	3.950	–	–	–
		220	6HD9016 /AB	R	430	–	2.10	220	B	2	53	88	4.725	A	73	1

B. F. P. = BAJO FACTOR DE POTENCIA
L. = LAMPARA

HX. = ALTA REACTANCIA

A. F. P. = ALTO FACTOR DE POTENCIA
R. = REACTOR

FIGURA 1

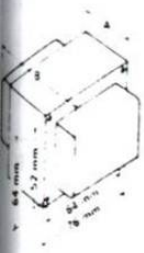


FIGURA 2

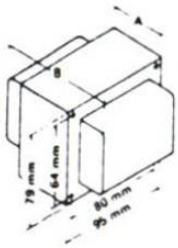


FIGURA 3

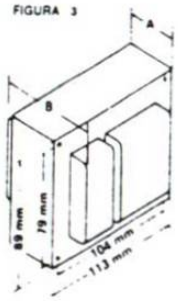
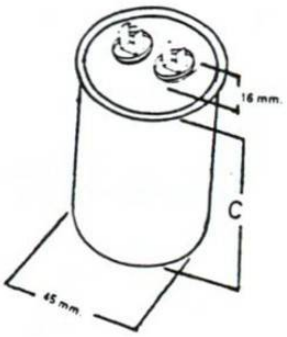


FIGURA A



CARACTERISTICAS

- MENOR COSTO
- MENOR TAMAÑO Y MENOR PESO
- ALTO O BAJO FACTOR DE POTENCIA.
- CORRIENTE DE LINEA DURANTE EL ENCENDIDO MAYOR QUE LA DE OPERACION NORMAL.
- VARIACION PERMISIBLE EN LA TENSION DE ALIMENTACION ± 5%
- VARIACION DE POTENCIA DE LAMPARA ± 12%
- EXIGE EXCELENTE REGULACION EN LA LINEA
- AISLAMIENTO 180° C
- CAPACITORES DE 90° C

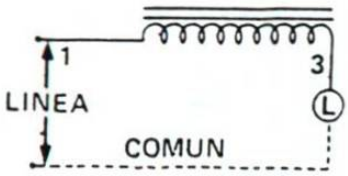
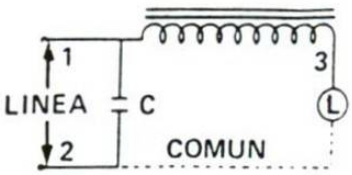


DIAGRAMA A

DIAGRAMA B



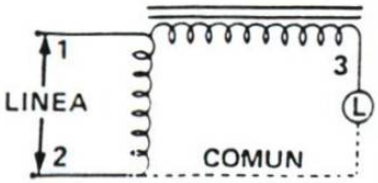


DIAGRAMA C

LA LINEA COMUN NO SE SUMINISTRA (USAR AWG16)

apor de Mercurio

transformador auto regulado

EN-DE AR.	TIPO DE LAMP.	TENSION DE LINEA	NUMERO DE CATALOGO	CIRCUITO TIPO	POTENCIA DE LINEA	CORRIENTE DE LINEA B.F.P.	CORRIENTE DE LINEA A.F.P.	TENSION DE CIRCUITO ABIERTO	DIAG. DE CONEX.	DIMENSIONES FIG. No.	DIMENSIONES A (mm)	DIMENSIONES B (mm)	PESO TOTAL Kg.	CAPACITOR FIG. No.	CAPACITOR C (mm)	No. DE PZAS.
	HPL-N80	127	71C9105 /AB	CWA	100	–	0.85	250	A	1	33	71	3.335	A	60.3	1
		220	71C9106 /AB			–	0.47									
0		254	71C9108 /AB			–	0.43									
		277	71C9109 /AB			–	0.40									
		440	71C9110 /AB			–	0.25									
	H-38	127	71C9139 /AB	CWA	120	–	1.00	253	A	1	37	75	3.375	A	60.3	1
		220	71C9140 /AB			–	0.60									
0		254	71C9142 /AB			–	0.52									
		277	71C9143 /AB			–	0.47									
		440	71C9144 /AB			–	0.30									
	H-42	127	71C9163 /AB	CWA	150	–	1.25	250	A	1	30	68	2.776	A	60.3	1
		220	71C9164 /AB			–	0.70									
5		254	71C9165 /AB			–	0.62									
		277	71C9166 /AB			–	0.57									
		440	71C9167 /AB			–	0.36									
	H-39	127	71C9133 /AB	CWA	205	–	1.70	250	A	1	37	75	3.640	A	73.0	1
		220	71C9134 /AB			–	0.95									
5		254	71C9136 /AB			–	0.82									
		277	71C9137 /AB			–	0.75									
		440	71C9138 /AB			–	0.47									
	H-37	127	71B9121 /AB	CWA	285	–	2.30	250	A	2	29	67	4.132	A	73.0	1
		220	71B9122 /AB			–	1.31									
		254	71B9124 /AB			–	1.15									
		277	71B9125 /AB			–	1.08									
		440	71B9126 /AB			–	0.66									
	H-33	127	73B9115 /AB	CWA	450	–	3.60	250	A	2	40	78	4.966	A	98.4	1
		220	73B9116 /AB			–	2.10									
		254	73B9118 /AB			–	1.80									
		277	73B9119 /AB			–	1.65									
		440	73B9120 /AB			–	1.05									
	H-35	127	71B9145 /AB	CWA	770	–	6.23	420	A	3	73	111	9.580	A	98.4	1
		220	71B9146 /AB			–	3.60									
		254	71B9148 /AB			–	3.12									
		277	71B9149 /AB			–	2.85									
		440	71B9150 /AB			–	1.80									
	H-36	127	71B9127 /AB	CWA	1075	–	8.70	420	A	3	73	111	9.952	B	98.4	1
		220	71B9128 /AB			–	5.00									
		254	71B9130 /AB			–	4.35									
		277	71B9131 /AB			–	4.00									
		440	71B9132 /AB			–	2.50									

= BAJO FACTOR DE POTENCIA A. F. P. = ALTO FACTOR DE POTENCIA C. W. A. = AUTO REGULADO L. = LAMPARA

CARACTERISTICAS

LA SOLUCION MAS ECONOMICA CUANDO LA VARIACION DE LA TENSION DE ALIMENTACION EXCEDA ± 5%.

DESEABLE CUANDO PUEDEN EXISTIR PROBLEMAS DE EXTINCION DE LA LAMPARA DEBIDO A GRANDES DISMINUCIONES EN LA TENSION DE ALIMENTACION.

ALTO FACTOR DE POTENCIA.

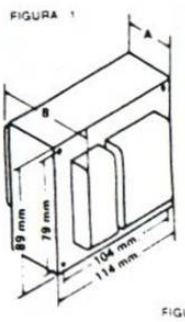
VARIACION PERMISIBLE EN LA TENSION DE ALIMENTACION ± 10%

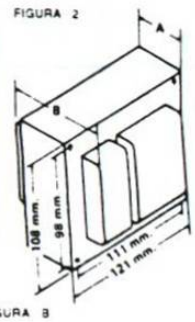
VARIACION DE POTENCIA DE LAMPARA ± 5%

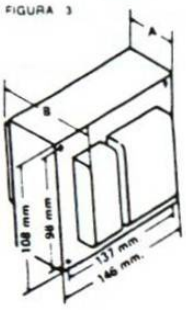
CORRIENTE DE LINEA DURANTE EL ENCENDIDO, MENOR QUE LA DE OPERACION NORMAL.

AISLAMIENTO 180° C

CAPACITORES DE 90° C







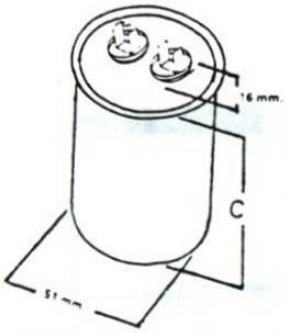
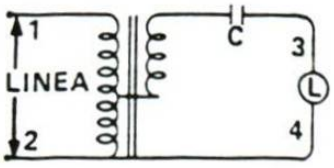


DIAGRAMA A



Vapor de Mercurio

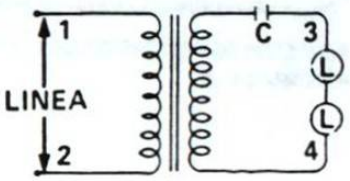
transformador de potencia constante

POTENCIA DE LAMP.	TIPO DE LAMP.	TENSION DE LINEA	NUMERO DE CATALOGO	CIRCUITO TIPO	POTENCIA DE LINEA	CORRIENTE DE LINEA B.F.P.	CORRIENTE DE LINEA A.F.P.	TENSION DE CIRCUITO ABIERTO	DIAG. DE CONEX.	DIMENSIONES FIG. No.	DIMENSIONES A (mm)	DIMENSIONES B (mm)	PESO TOTAL Kg.	CAPACITOR FIG. No.	CAPACITOR C (mm)	No. DE PZAS.
2-400	H-33	127	71A9010 /AB	CW	880	–	6.90	515	A	1	79	117	10.759	C	150.0	1
		220	71A9011 /AB			–	4.00									
		254	71A9012 /AB			–	3.50									
		277	71A9013 /AB			–	3.20									
		440	71A9014 /AB			–	2.00									

B. F. P. = BAJO FACTOR DE POTENCIA
C. W. A. = AUTO REGULADO

A. F. P. = ALTO FACTOR DE POTENCIA
L. = LAMPARA

DIAGRAMA A



CARACTERISTICAS

- CIRCUITO DE DEVANADOS AISLADOS ELECTRICAMENTE.
- PERMITE EL ATERRIZAJE DE LA LAMPARA.
- VARIACION PERMISIBLE DE TENSION DE ALIMENTACION ± 13%
- VARIACION EN LA POTENCIA DE LA LAMPARA ± 3%.
- ALTO FACTOR DE POTENCIA.
- CORRIENTE DE LINEA DURANTE EL ENCENDIDO, MENOR QUE LA DE OPERACION NORMAL.
- DESEABLE CUANDO PUEDEN EXISTIR PROBLEMAS DE EXTINCION DE LA LAMPARA DEBIDO A GRANDES DISMINUCIONES EN LA TENSION DE ALIMENTACION.
- AISLAMIENTO 180° C
- CAPACITORES DE 90° C

FIGURA 1

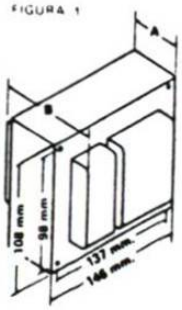
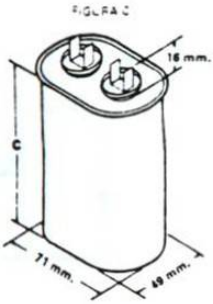


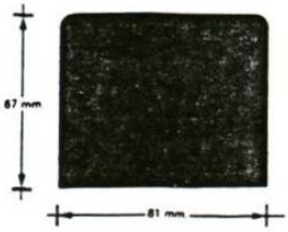
FIGURA C



Vapor de Mercurio Interiores

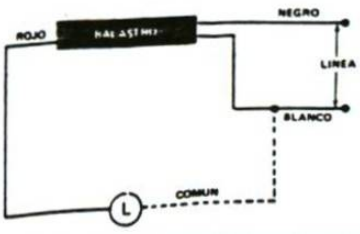
autotransformador auto regulado

POTENCIA DE LAMP.	TIPO DE LAMP.	TENSION DE LINEA	NUMERO DE CATALOGO	CIRCUITO TIPO	POTENCIA DE LINEA	CORRIENTE DE LINEA B.F.P.	CORRIENTE DE LINEA A.F.P.	TENSION DE CIRCUITO ABIERTO	DIMENSIONES LARGO DE CAJA	DIMENSIONES SECCION	PESO TOTAL Kg.	DIAG. DE CONEX.
1-175	H-39	127	71E9133 /1	CWA	205	–	1.70	250	424 (MM)	A	7.000	A
		220	71E9134 /1			–	0.95					
1-250	H-37	127	71E9121/1	CWA	205	–	2.3	250	488	A	9.000	A



CARACTERISTICAS

- PARA INSTALACION EN INTERIORES
  TAMAÑO Y FORMA SIMILAR A LOS FLUORESCENTES
- BAJA TEMPERATURA DE OPERACION 105° C
  ALTO FACTOR DE POTENCIA
- CARACTERISTICAS SIMILARES AL AUTOTRANSFORMADOR AUTO REGULADO
- MAS SILENCIOSO (CLASE C) ADECUADO PARA INSTALACIONES EN PLAFONES LUMINOSOS, EN TIENDAS, ETC.
- TERMOPROTEGIDO (OPCIONAL)
- CAPACITORES DE 90° C



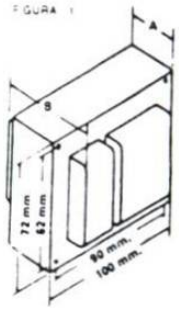
Aditivos Metálicos

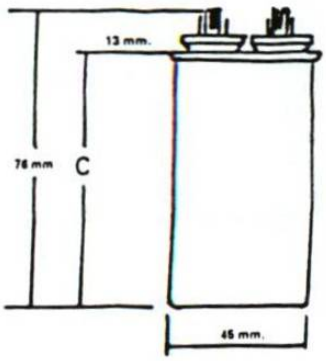
autotransformador alta reactancia

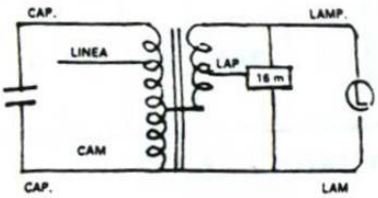
POTENCIA DE LAMP.	TIPO DE LAMP.	TENSION DE LINEA	NUMERO DE CATALOGO	CIRCUITO TIPO	POTENCIA DE LINEA	CORRIENTE DE LINEA B.F.P.	CORRIENTE DE LINEA A.F.P.	TENSION DE CIRCUITO ABIERTO	DIAG. DE CONEX.	DIMENSIONES FIG. No.	DIMENSIONES A (mm)	DIMENSIONES B (mm)	PESO TOTAL Kg.	CAPACITOR FIG. No.	CAPACITOR C (mm)	No. DE PZAS
1-70	M-98	127	71HI9321 /AB	HX	95	–	0.805	255	A	1	37	71	2.100	A	63	1
		220	71HI9322 /AB			–	0.475									
		254	71HI9324 /AB			–	0.410									
		277	71HI9325 /AB			–	0.370									
1-100	M-90	127	71HI9327 /AB	HX	129	–	1.050	285	A	1	45	80	2.580	A	63	1
		220	71HI9328 /AB			–	0.640									
		254	71HI9330 /AB			–	0.550									
		277	71HI9331 /AB			–	0.490									
1-150	M-102	127	71HI9333 /AB	HX	185	–	1.540	255	A	1	65	100	3.520	A	63	1
		220	71HI9334 /AB			–	0.880									
		254	71HI9336 /AB			–	0.780									
		277	71HI9337 /AB			–	0.700									

B. F. P. = BAJO FACTOR DE POTENCIA HX. = ALTA REACTANCIA A. F. P. = ALTO FACTOR DE POTENCI
L. = LAMPAR

FIGURA A







CARACTERISTICAS

- ALTO O BAJO FACTOR DE POTENCIA.
- VARIACION PERMISIBLE EN LA TENSION DE ALIMENTACION ± 5%
- VARIACION EN LA POTENCIA DE LAMPARA DE 7 A ± 12%
- CORRIENTE DE LINEA DURANTE EL ENCENDIDO MAYOR QUE LA DE OPERACION NORMAL.
- DISEÑADO PARA SATISFACER TODOS LOS REQUISITOS DE LAS LAMPARAS DE ADITIVOS METALICOS
- AISLAMIENTO 180° C
- CAPACITORES DE 90° C
- IGNITORES DE 90° C

Aditivos Metálicos

autotransformador auto regulado

POTENCIA DE LAMP.	TIPO DE LAMP.	TENSION DE LINEA	NUMERO DE CATALOGO	CIRCUITO TIPO	POTENCIA DE LINEA	CORRIENTE DE LINEA B.F.P.	CORRIENTE DE LINEA A.F.P.	TENSION DE CIRCUITO ABIERTO	DIAG. DE CONEX.	DIMENSIONES FIG. No.	DIMENSIONES A (mm)	DIMENSIONES B (mm)	PESO TOTAL Kg.	CAPACITOR FIG. No.	CAPACITOR C (mm)	No DE PZA
1-175	AM ó H39	127	71C9039/AB	CWA	205	–	1.74	290	A	1	48	86	5.050	A	60.3	1
		220	71C9040 /AB			–	0.97									
		254	71C9042 /AB			–	0.86									
		277	71C9043 /AB			–	0.75									
		440	71C9044/AB			–	0.47									
1-250	AM ó H37	127	71C9045 /AB	CWA	285	–	2.30	320	A	2	38	76	6.465	A	73.0	1
		220	71C9046 /AB			–	1.35									
		254	71C9048 /AB			–	1.15									
		277	71C9049 /AB			–	1.08									
		440	71C9050 /AB			–	0.68									
1-400	AM ó H33	127	74B9051 /AB	CWA	455	–	3.80	305	A	2	54	92	7.610	B	98.4	1
		220	74B9052 /AB			–	2.12									
		254	74B9054 /AB			–	1.90									
		277	74B9055/AB			–	1.70									
		440	74B9056 /AB			–	1.10									
1-1000	AM ó H36	127	73B9057 /AB	CWA	1070	–	8.70	425	A	3	87	125	13.000	B	98.4	1
		220	73B9058 /AB			–	5.00									
		254	73B9060 /AB			–	4.35									
		277	73B9061 /AB			–	4.10									
		440	73B9062 /AB			–	2.50									
1-500	AM	127	73F9063 /AB	CWA	1610	–	13.80	445	A	4	87	125	15.600	C	150.0	2
		220	73F9064 /AB			–	7.90									
		254	73F9066 /AB			–	6.90									
		277	73F9067 /AB			–	6.30									
		440	73F9068 /AB			–	3.70									

B. F. P. = BAJO FACTOR DE POTENCIA

A. F. P. = ALTO FACTOR DE POTENC

C. W. A. = AUTO REGULADO

L. = LAMPA

FIGURA 1

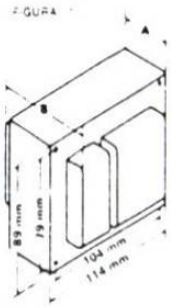


FIGURA 2

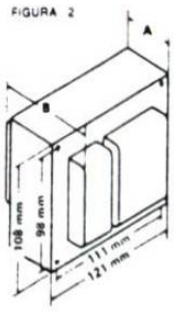


FIGURA 3

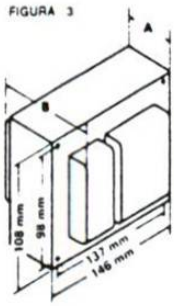


FIGURA 4

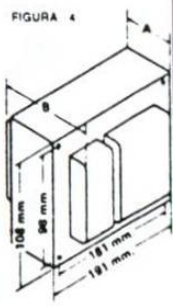


FIGURA A

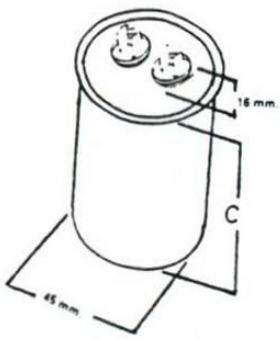


FIGURA B

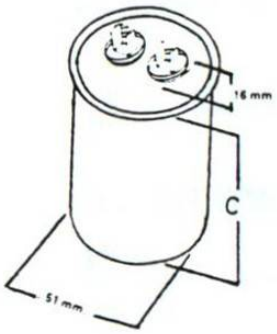
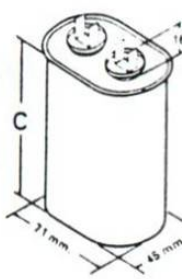


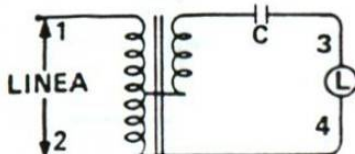
FIGURA C



CARACTERISTICAS

- ALTO FACTOR DE POTENCIA
- VARIACION PERMISIBLE EN LA TENSION DE ALIMENTACION ± 10
- VARIACION EN LA POTENCIA DE LAMPARA DE 7 A ± 12 %
- CORRIENTE DE LINEA DEL ENCENDIDO, MENOR QUE LA DE OPERACION NORMAL
- DISEÑADO PARA SATISFACER TODOS LOS REQUISITOS DE LAS LAMPARAS DE ADITIVOS METALICOS
- PUEDE OPERAR LAMPARAS DE VAPOR DE MERCURIO, QUE TENGAN CARACTERISTICAS SIMILARES A LAS DE ADITIVOS METALICOS.

DIAGRAMA A



Vapor de Sodio Alta Presión

reactor serie y autotransformador alta reactancia

POTENCIA DE LAMP.	TIPO DE LAMP.	TENSION DE LINEA	NUMERO DE CATALOGO	CIRCUITO TIPO	POTENCIA DE LINEA	CORRIENTE DE LINEA		TENSION DE CIRCUITO ABIERTO	DIAG. DE CONEX.	DIMENSIONES			PESO TOTAL Kg.	CAPACITOR		No. DE PZAS.
						B.F.P.	A.F.P.			FIG. No.	A (mm)	B (mm)		FIG. No.	C (mm)	
1-35	S-76	127	6LG8432 /AB	-R	43	0.83	–	127	A	3	16	51	0.700	–	–	–
1-50	S-68	127	6LG8450 /AB	-R	60	1.10	–	127	A	3	23	58	0.850	–	–	–
1-70	S-62	127	6LG8470 /AB	-R	83	1.60	–	127	A	3	33	68	1.010	–	–	–
1-100	S-54	127	6LG8439 /AB	-R	118	2.10	–	127	A	3	38	73	1.223	–	–	–
1-150	S-55	127	6LG8416 /AB	-R	170	3.10	–	127	A	3	50	85	1.561	–	–	–
1-150	S-55	127	6HG8416 /AB	-R	170	–	1.40	127	B	3	50	85	2.516	B	98.4	1
1-150	S-56	220	6LD8417 /AB	-R	170	1.85	–	220	A	1	44	79	1.650	–	–	–
1-150	S-56	220	6HD8417 /AB	-R	170	–	0.80	220	B	1	44	79	2.410	A	60.3	1
1-150	S-55	220	71LC8217 /AB	HX	180	1.90	–	125	C	4	51	81	4.500	–	–	–
1-150	S-55	220	71HC8217 /AB	HX	180	–	0.88	125	C	4	51	81	5.000	A	73.0	1
1-250	S-50	220	6LD8407 /AB	-R	278	3.00	–	220	A	2	39	74	2.200	–	–	–
1-250	S-50	220	6HD8407 /AB	-R	278	–	1.35	220	B	2	39	74	3.100	A	73.0	1
1-400	S-51	220	6LD8401 /AB	-R	440	4.70	–	220	A	2	51	86	3.900	–	–	–
1-400	S-51	220	6HD8401 /AB	-R	440	–	2.15	220	B	2	51	86	4.450	B	121.0	1
1-400	S-51	254	6LD8403 /AB	-R	440	4.65	–	254	A	2	51	86	3.900	–	–	–

A. F. P. = ALTO FACTOR DE POTENCIA
B. F. P. = BAJO FACTOR DE POTENCIA

R. = REACTOR
H. X. = ALTA REACTANCIA

IGN. = IGNITOR

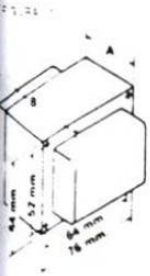


FIGURA 2

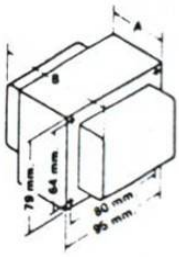


FIGURA 3

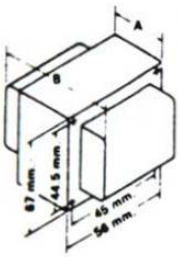


FIGURA 4

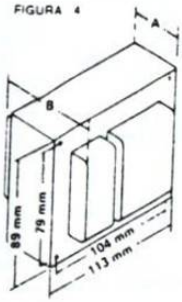


FIGURA A

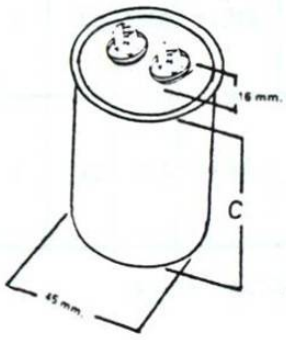
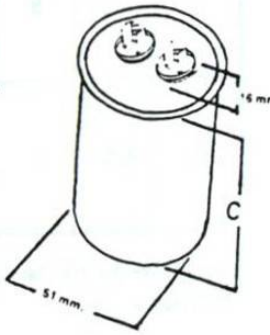


FIGURA B



CARACTERISTICAS

- MENOR COSTO
- MENOR TAMAÑO Y MENOR PESO.
- ALTO O BAJO FACTOR DE POTENCIA.
- VARIACION PERMISIBLE EN LA TENSION DE ALIMENTACION ± 5%
- EXCLUSIVAMENTE PARA CONECTARSE A TENSIONES DE ALIMENTACION IGUALES O SUPERIORES A LAS DE ENCENDIDO DE LAMPARA.
- EXIGE EXCELENTE REGULACION EN LA LINEA.
- POTENCIA DE LAMPARA DENTRO DEL TRAPEZOIDE NOM CORRESPONDIENTE.
- IGNITOR ENCAPSULADO (90° C)
- AISLAMIENTO 180° C
- CAPACITORES DE 90° C

NOTA – PARA INSTALACION DEL BALASTRO ES IMPORTANTE QUE SE INSTALE DE ACUERDO A LAS INSTRUCCIONES DE LA ETIQUETA DEL BALASTRO.

LA LINEA COMUN NO SE SUMINISTRA (USAR AWG. 16). LA PUNTA No. 4 DEBE CONECTARSE A LA TERMINAL CENTRAL DEL PORTALAMPARAS.

LA PUNTA No. 4 DEBE CONECTARSE A LA TERMINAL CENTRAL DEL PORTALAMPARAS.

DIAGRAMA A

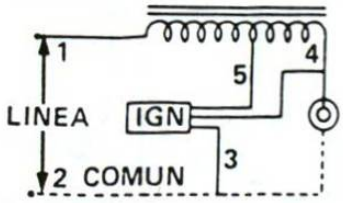


DIAGRAMA B

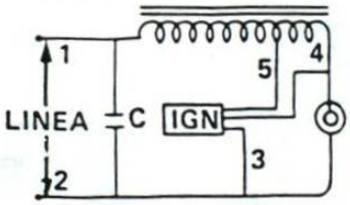
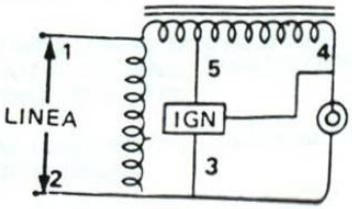


DIAGRAMA C



Vapor de Sodio Alta Presión

elantado regulado

ICN-DA DE LAMP.	TIPO DE LAMP.	TENSION DE LINEA	NUMERO DE CATALOGO	CIRCUITO TIPO	POTENCIA DE LINEA	CORRIENTE DE LINEA B.F.P.	CORRIENTE DE LINEA A.F.P.	TENSION DE CIRCUITO ABIERTO	DIAG. DE CONEX.	DIMENSIONES FIG. No.	DIMENSIONES A (mm)	DIMENSIONES B (mm)	PESO TOTAL Kg.	CAPACITOR FIG. No.	CAPACITOR C (mm)	No. DE PZAS.
1-70	S-62	127	71A8370 /AB	ADELANT.	95	–	0.800	120	A	4	25.4	68.4	3.082	A	73.0	1
		220	71A8371 /AB			–	0.470									
		254	71A8373 /AB			–	0.410									
		277	71A8374 /AB			–	0.375									
		440	71A8375 /AB			–	0.235									
1-100	S-54	127	71A8339 /AB	ADELANT.	130	–	1.090	120	A	4	38.0	81.0	4.250	A	98.4	1
		220	71A8340 /AB			–	0.630									
		254	71A8341 /AB			–	0.545									
		277	71A8342 /AB			–	0.500									
		440	71A8343 /AB			–	0.315									
1-150	S-55	127	71A8316 /AB	ADELANT.	185	–	1.500	115	A	4	56.0	99.0	5.750	B	98.4	1
		220	71A8317 /AB			–	0.900									
		254	71A8319 /AB			–	0.750									
		277	71A8320 /AB			–	0.700									
		440	71A8321 /AB			–	0.450									
1-250	S-50	127	71A8306 /AB	ADELANT.	295	–	2.350	195	A	1	44.0	87.0	5.500	A	98.4	1
		220	71A8307 /AB			–	1.390									
		254	71A8309 /AB			–	1.200									
		277	71A8310 /AB			–	1.100									
		440	71A8311 /AB			–	0.700									
1-400	S-51	127	71A8300 /AB	ADELANT.	465	–	4.000	191	A	2	71.0	114.0	11.310	B	121.0	1
		220	71A8301 /AB			–	2.250									
		254	71A8303 /AB			–	2.000									
		277	71A8304 /AB			–	1.800									
		440	71A8305 /AB			–	1.150									
1-1000	S-52	127	71A8327 /AB	ADELANT.	1100	–	9.100	435	A	3	79.0	131.0	14.300	C	125.0	2
		220	71A8312 /AB			–	5.100									
		254	71A8314 /AB			–	4.500									
		277	71A8314A /AB			–	4.150									
		440	71A8315 /AB			–	2.600									

B. F. P. = BAJO FACTOR DE POTENCIA
ADELANT. = ADELANTADO

A. F. P. = ALTO FACTOR DE POTENCIA
ING. = IGNITOR

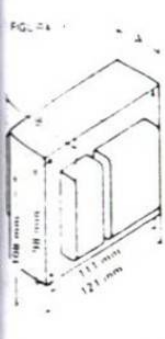


FIGURA 2

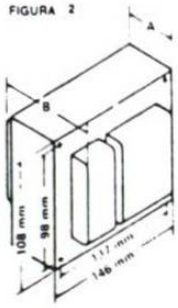


FIGURA 3

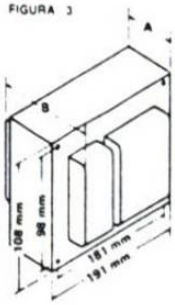


FIGURA 4

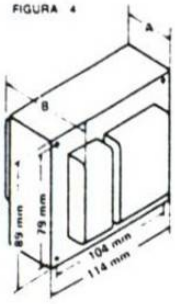


FIGURA A

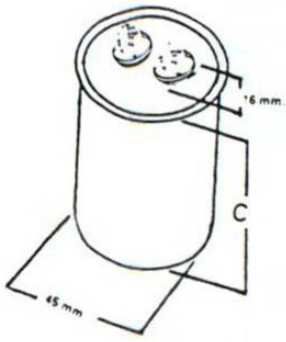
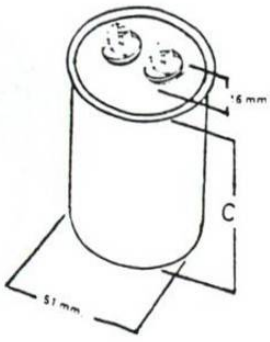


FIGURA B



CARACTERISTICAS

- CIRCUITO AUTOTRANSFORMADOR AUTO REGULADO CON EL CAPACITOR ENTRE DEVANADOS PRIMARIO Y SECUNDARIO
- ALTO FACTOR DE POTENCIA
- VARIACION PERMISIBLE EN LA TENSION DE ALIMENTACION ± 10%
- POTENCIA DE LAMPARA DENTRO DEL TRAPEZOIDE NOM CORRESPONDIENTE
- IGNITOR ENCAPSULADO (90° C)
- AISLAMIENTO 180° C
- CAPACITORES DE 90° C

DIAGRAMA A

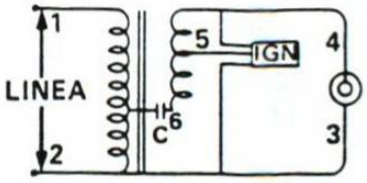
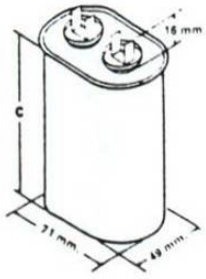


FIGURA C



NOTA PARA INSTALACION DEL BALASTRO ES IMPORTANTE QUE SE INSTALE DE ACUERDO A LAS INSTRUCCIONES DE LAS ETIQUETAS DEL BALASTRO.

LA PUNTA No. 4 DEBE CONECTARSE A LA TERMINAL CENTRAL DEL PORTA-LAMPARAS.

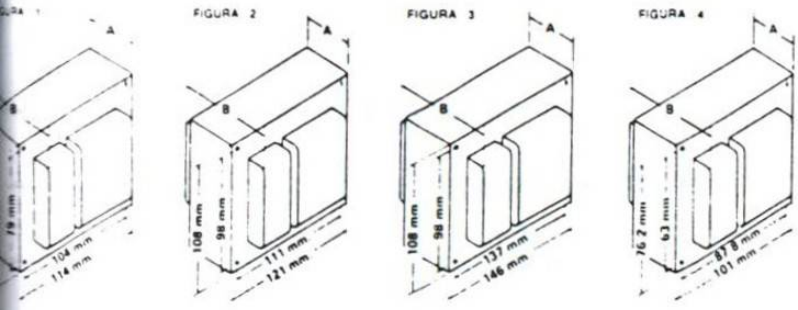
Vapor de Sodio Baja Presión

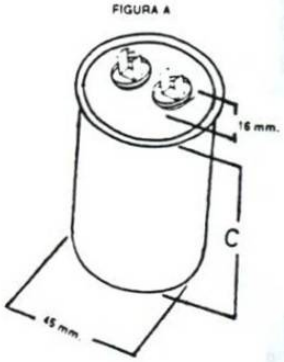
autotransformador alta reactancia

POTENCIA DE LAMP.	TIPO DE LAMP.	TENSION DE LINEA	NUMERO DE CATALOGO	CIRCUITO TIPO	POTENCIA DE LINEA	CORRIENTE DE LINEA B.F.P.	CORRIENTE DE LINEA A.F.P.	TENSION DE CIRCUITO ABIERTO	DIAG. DE CONEX.	DIMENSIONES FIG. No.	DIMENSIONES A (mm)	DIMENSIONES B (mm)	PESO TOTAL Kg.	CAPACITOR FIG. No.	CAPACITOR C (mm)	No. DE PZAS.
1-18	BAJA P.	127	71C8640 /AB	HX BFP	32	1.00	–	310	B	4	18.5	56.5	0.894	–	–	–
		220	71C8641 /AB			0.58	–									
		254	71C8642 /AB			0.50	–									
		277	71C8643 /AB			0.46	–									
		440	71C8644 /AB			0.29	–									
1-35	BAJA P.	127	71C8506 /AB	HX AFP	60	–	0.47	480	A	1	51	83	3.560	A	60.3	1
		220	71C8507 /AB			–	0.27									
		254	71C8509 /AB			–	0.24									
		277	71C8510 /AB			–	0.22									
		440	71C8511 /AB			–	0.13									
1-55	BAJA P.	127	71C8515 /AB	HX AFP	80	–	0.65	480	A	1	51	83	3.560	A	60.3	1
		220	71C8516 /AB			–	0.38									
		254	71C8517 /AB			–	0.33									
		277	71C8518 /AB			–	0.30									
		440	71C8519 /AB			–	0.19									
1-90	BAJA P.	127	71A8520 /AB	HX AFP	125	–	1.05	500	A	2	54	67	5.955	A	98.4	1
		220	71A8521 /AB			–	0.60									
		254	71A8522 /AB			–	0.52									
		277	71A8523 /AB			–	0.48									
		440	71A8524 /AB			–	0.30									
1-135	BAJA P.	127	71A8525 /AB	HX AFP	178	–	1.50	660	A	3	70	108	8.532	A	60.3	1
		220	71A8526 /AB			–	0.87									
		254	71A8527 /AB			–	0.75									
		277	71A8528 /AB			–	0.68									
		440	71A8529 /AB			–	0.43									
-180	BAJA P.	127	71A8530 /AB	HX AFP	220	–	1.90	660	A	3	70	108	8.532	A	60.3	1
		220	71A8531 /AB			–	1.10									
		254	71A8532 /AB			–	0.95									
		277	71A8533 /AB			–	0.87									
		440	71A8534 /AB			–	0.55									

B. F. P. = BAJO FACTOR DE POTENCIA
A. F. P. = ALTO FACTOR DE POTENCIA

HX-AFP = ALTA REACTANCIA, ALTO FACTOR DE POTENCIA
L. = LAMPARA





CARACTERISTICAS

- CIRCUITO AUTOTRANSFORMADOR ALTA REACTANCIA
- ALTO FACTOR DE POTENCIA.
- VARIACION PERMISIBLE EN LA TENSION DE ALIMENTACION ± 5%
- VARIACION EN LA CORRIENTE DE LAMPARA ± 5%
- POTENCIA DE LAMPARA PRACTICAMENTE CONSTANTE.
- AISLAMIENTO 180° C
- CAPACITORES DE 90° C

DIAGRAMA A

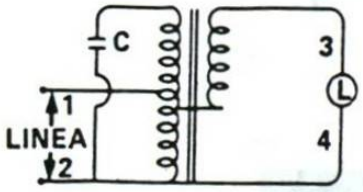
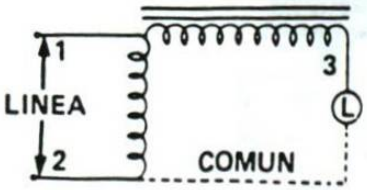



DIAGRAMA B