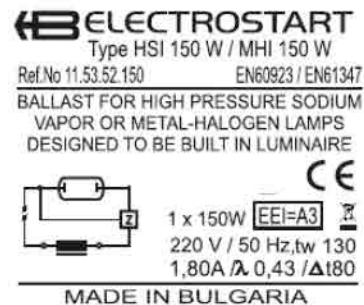
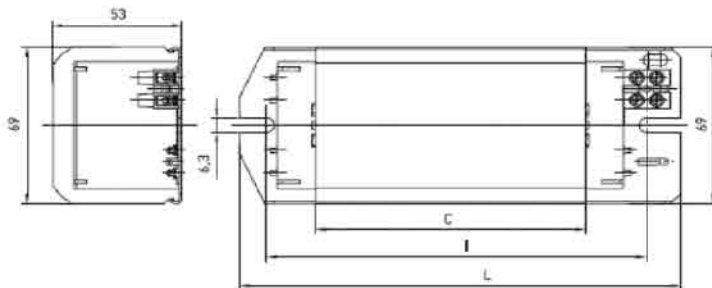


TDS No.020

Ballast for High Intensity Discharge lamps, type: HSI / MHI 150W 220V 50Hz



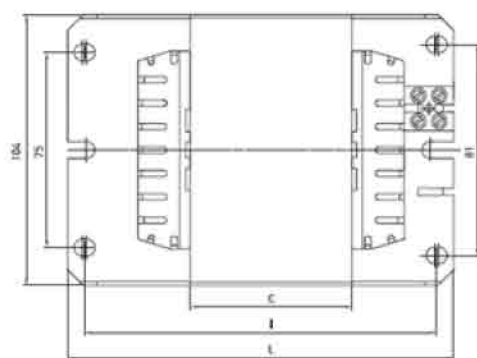
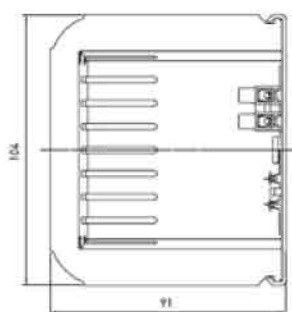
Reference		Ballast for High- pressure sodium and Metal halide lamps
Type		HSI/MHI 150W 220V 50Hz
Ref.No	-	11.53.52.150
Art.No.	-	96352150
Rated power	W	150
Rated voltage	V	220 AC , 50Hz
Rated current	A	1.80
Power factor	-	0.43
Short circuit current at 1.06Un	A	< 3.00
Open circuit voltage	V	> 198
Losses in cold condition	W	$\leq$ 23
High voltage test	kV	2.00 AC
Energy Efficiency (EEI)	-	A3
Temperature rise normal (dt)	°C	80
Maximum winding temperature (t_w)	°C	130
Weight	kg	1.80
Dimensions:	-	-
C	mm	75
I	mm	120
L	mm	145
Screw terminals	mm ²	4.0



In accordance with IEC 61347-1, IEC 61347-2-9, IEC 60923, IEC 62442-2, IEC 60662 and IEC 61167.

TDS No.021

Ballast for High Intensity Discharge lamps, type: HSI / MHI 250W 220V 50Hz

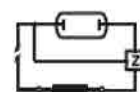


ELECTROSTART

Type HSI 250 W

Ref.No 11.89.52.250 EN60923 / EN61347

BALLAST FOR HIGH PRESSURE
 SODIUM VAPOR LAMPS
 DESIGNED TO BE BUILT IN LUMINAIRE



CE EEF-A3

1 x 250W, tw 130
 220 V / 50 Hz
 3,00A / 0,42 / Δt75

MADE IN BULGARIA

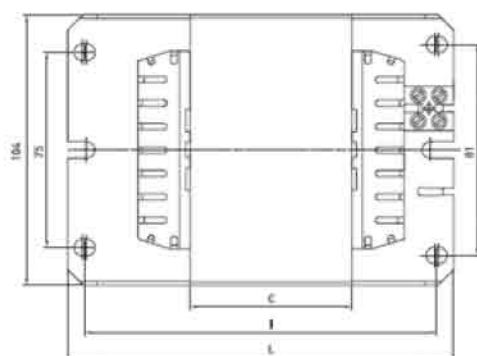
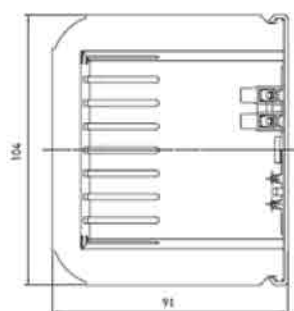
Reference		Ballast for High- pressure sodium and Metal halide lamps
Type		HSI/MHI 250W 220V 50Hz
Ref.No	-	11.89.52.250
Art.No.	-	96652250
Rated power	W	250
Rated voltage	V	220 AC , 50Hz
Rated current	A	3.00
Power factor	-	0.42
Short circuit current at 1.06Un	A	< 5.20
Losses in cold condition	W	≤ 31
Open circuit voltage	V	> 198
High voltage test	kV	2.00 AC
Energy Efficiency (EEI)	-	A3
Temperature rise normal (dt)	°C	75
Maximum winding temperature (tw)	°C	130
Weight	kg	3.00
Dimensions:	-	-
C	mm	42
I	mm	120
L	mm	133
Screw terminals	mm ²	4.0

ELECTROSTART
 SHAREHOLDERS COMPANY
 VURSHETS
 BULGARIA

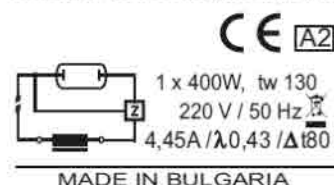
In accordance with IEC 61347-1, IEC 61347-2-9, IEC 60923, IEC 62442-2, IEC 60662 and IEC 61167.

TDS No.022

Ballast for High Intensity Discharge lamps, type: HSI 400W 220V 50Hz



ELECTROSTART
 Type HSI 400 W
 Ref.No 11.89.52.400 EN60923 / EN61347
 BALLAST FOR HIGH PRESSURE
 SODIUM VAPOR LAMPS
 DESIGNED TO BE BUILT IN LUMINAIRE



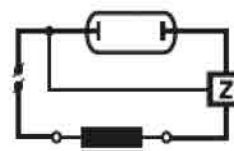
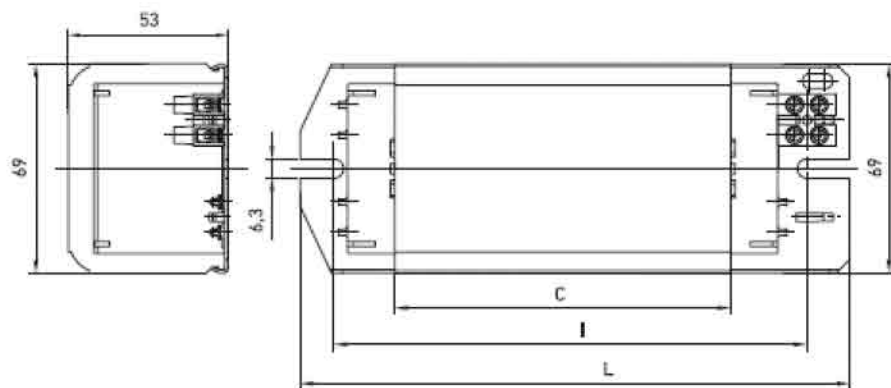
Reference		Ballast for Ballast for High- pressure sodium lamps
Type		HSI 400W 220V 50Hz
Ref.No	-	11.89.52.400
Art.No.	-	96652400
Rated power	W	400
Rated voltage	V	220 AC , 50Hz
Rated current	A	4.45
Power factor	-	0.43
Short circuit current at 1.06Un	A	< 7.50
Losses in cold condition	W	≤ 38
Open circuit voltage	V	> 198
High voltage test	kV	2.00 AC
Energy Efficiency (EEI)	-	A2
Temperature rise normal (dt)	°C	
Maximum winding temperature (tw)	°C	130
Weight	kg	4.90
Dimensions:	-	-
C	mm	76
I	mm	135
L	mm	148
Screw terminals	mm ²	4.0

ELECTROSTART
 SHAREHOLDERS COMPANY
 VURSHETS
 BULGARIA

In accordance with IEC 61347-1, IEC 61347-2-9, IEC 60923, IEC 62442-2 and IEC 60662.

TDS No.028

Ballast for High Intensity Discharge lamps, type: HSI 100W 220V 50Hz



Reference		Ballast for High- pressure sodium lamps
Type		HSI 100W 220V 50Hz
Ref.No	-	11.53.52.100
Art.No.	-	96452100
Rated power	W	100
Rated voltage	V	220 AC , 50Hz
Rated current	A	1.20
Power factor	-	0.45
Short circuit current at 1.06Un	A	< 2.40
Open circuit voltage	V	> 198
High voltage test	kV	2.00 AC
Energy Efficiency (EEI)	-	A3
Temperature rise normal (dt)	°C	80
Maximum winding temperature (tw)	°C	130
Weight	kg	1.17
Dimensions:	-	-
C	mm	45
I	mm	87
L	mm	112
Screw terminals	mm ²	1.0 ÷ 2.5

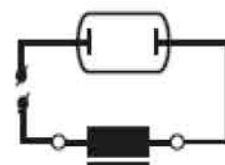
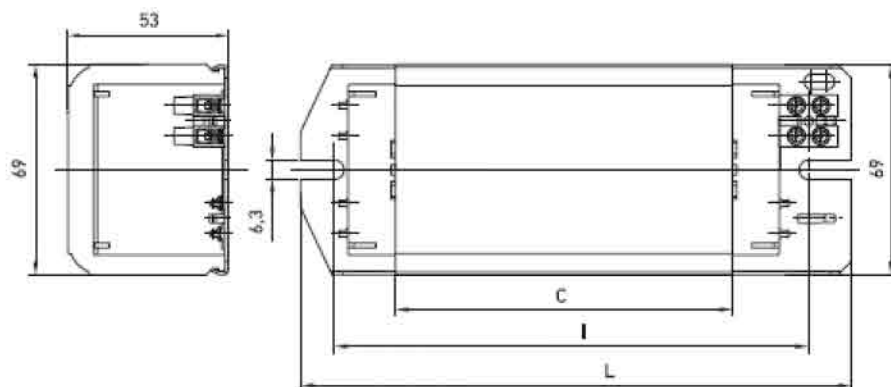
ELECTROSTART
 SHAREHOLDERS COMPANY
 VURSHETS
 BULGARIA



In accordance with IEC 61347-1, IEC 61347-2-9, IEC 60923, IEC 62442-2, IEC 60662.

TDS No.029

Ballast for High Intensity Discharge lamps, type: MVI 125W 220V 50Hz



Reference		Ballast for Mercury vapor lamps
Type		MVI 125W 220V 50Hz
Ref.No	-	11.53.52.125
Art.No.	-	96252125
Rated power	W	125
Rated voltage	V	220 AC , 50Hz
Rated current	A	1.15
Power factor	-	0.56
Short circuit current at 1.06Un	A	< 2.30
Open circuit voltage	V	> 198
High voltage test	kV	2.00 AC
Energy Efficiency (EEl)	-	A3
Temperature rise normal (dt)	°C	80
Maximum winding temperature (tw)	°C	130
Weight	kg	1.17
Dimensions:	-	-
C	mm	45
I	mm	87
L	mm	112
Screw terminals	mm ²	1.0 ÷ 2.5

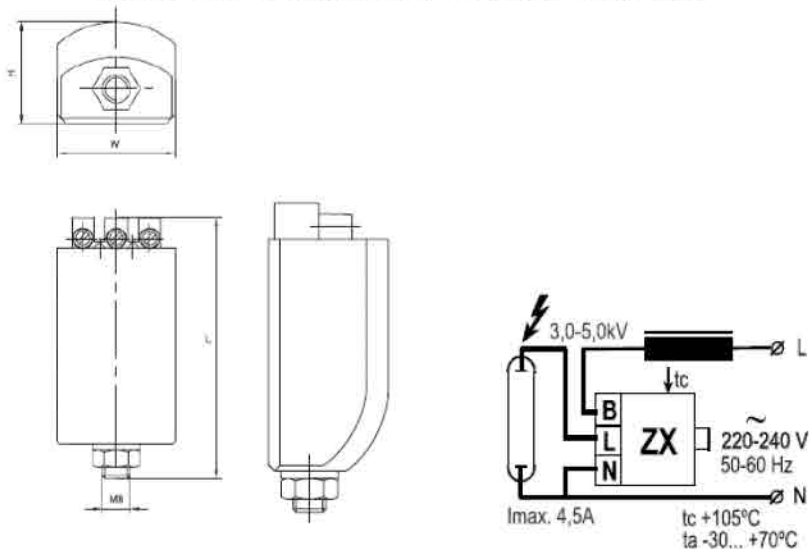
ELECTROSTART
 SHAREHOLDERS COMPANY
 VURSHETS
 BULGARIA



In accordance with IEC 61347-1, IEC 61347-2-9, IEC 60923, IEC 62442-2 and IEC 60188.

TDS No.099

Electronic superimposed pulse ignitor type: ZX



Reference		Superimposed pulse ignitor
Type		ZX
Ref.No	-	78.02.400.0
Art.No.	-	91078400
High pressure sodium lamps	W	70 (only with 3kV - 5kV) - 400
Metal halide lamps	W	35 - 400
Rated voltage	V	220-240 AC, 50-60 Hz
Main voltage	V	198-264 AC
Ignition voltage	kV	3.0 - 5.0
Max. continuous current of the lamp	A	4.50
Loading capacitance	pF	20 - 100
Pulse number per cycle	No.	≥6
Pulse position	°e	60-90 / 240-270
Switch-on / Switch- off voltage	V	$U_{ON} < 198$ / $U_{OFF} > 160V$
Maximum case temperature t_c	°C	105
Temperature range	°C	-30 / +70
Weight	g	110
Dimensions	mm	75x34x30
Screw terminals (encapsulated in polyurethane resin)	mm ²	1.0 ÷ 2.5

Insulating self-extinguishing casing with fastening shank M-8

ELECTROSTART
SHAREHOLDERS COMPANY
VURSHETS
BULGARIA

In accordance with IEC 61347-2-1, IEC 60927, IEC 60662, IEC 61167