

L SERIES

Coils

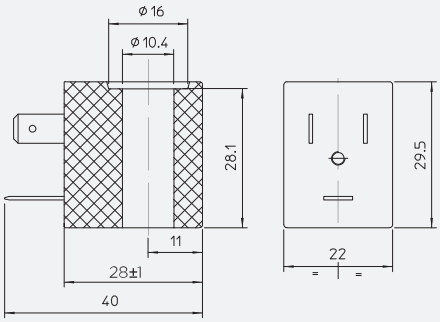
L Series coils are 22 mm wide, suitable for armature tubes with diameter 10 mm. They can be provided in different temperature classes and materials.

TECHNICAL DATA

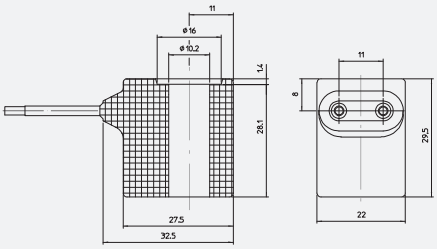
ELECTRICAL CONNECTIONS	LBA, LBS, LBV SERIES	EN 175301-803 INDUSTRIAL FORM B (11 mm)
	LTA SERIES	FLYING LEADS, LENGTH 20 cm
PROTECTION DEGREE	LBA, LBS, LBV SERIES	IP 65 EN 60529 (DIN 40050) WITH CONNECTOR
	LTA SERIES	IP 00
WINDING INSULATION CLASS	CLASS H	
COIL INSULATION CLASS	LBA, LBS, LTA SERIES	CLASS F (155°C)
	LBV SERIES	CLASS H (180°C)
COIL ENCAPSULATION MATERIALS	LBA, LTA SERIES	BLACK PA (POLYAMIDE)
	LBS	IMPREGNATED BLACK PA (POLYAMIDE)
	LBV SERIES	BLACK PET (POLYETHYLENE)

Please read and agree our GENERAL CONDITIONS before placing an order. All the information are exclusive ownership of ODE S.r.l. All rights reserved ©ODE S.r.l.

DIN CONNECTIONS



FLYING LEADS



DIN CONNECTIONS - CLASS F

CODE	VOLTAGE / FREQUENCY	POWER RATING	AMBIENT TEMPERATURE	DUTY CYCLE	APPROVALS
LOW POWER					
LBA2X012CS	12 V DC	2,5 W	-10°C +40°C	100%	CE
LBA2X024CS	24 V DC	2,5 W	-10°C +40°C	100%	CE
LBA2X024AS	24 V / 50 Hz	5 VA	-10°C +40°C	100%	CE
LBA2X110AS	110 V / 50 Hz	5 VA	-10°C +40°C	100%	CE
LBA2X230AS	230 V / 50 Hz	5 VA	-10°C +40°C	100%	CE
STANDARD POWER					
LBA05012CS	12 V DC	5 W	-10°C +40°C	100%	CE
LBA05012AS	12 V / 50 Hz	10 VA	-10°C +40°C	100%	CE
LBA05024CS	24 V DC	5 W	-10°C +40°C	100%	CE
LBA05024AS	24 V / 50Hz	10 VA	-10°C +40°C	100%	CE
LBA05110AS	110 V / 50 Hz 120 V / 60 Hz	10 VA	-10°C +40°C	100%	CE
LBA05220BS	220 V / 60 Hz	10 VA	-10°C +40°C	100%	CE
LBA05230AS	230 V / 50 Hz 240 V / 60 Hz	11,5 VA	-10°C +40°C	100%	CE
LBA05240AS	240 V / 50 Hz	10 VA	-10°C +40°C	100%	CE

- Tolerances on nominal voltages: AC + 10% - 15% DC + 10% - 5%
- Performances of the valve may vary with low power category coils. Please contact ODE before order.

DIN CONN. - CLASS F - IMPREG. ENCAPSULATION

CODE	VOLTAGE / FREQUENCY	POWER RATING	AMBIENT TEMPERATURE	DUTY CYCLE	APPROVALS
LOW POWER					
LBS2X024AS	12 V DC	2,5 W	-10°C +40°C	100%	CE
LBS2X230AS	24 V DC	2,5 W	-10°C +40°C	100%	CE
STANDARD POWER					
LBS05024AS	12 V DC	5 W	-10°C +40°C	100%	CE
LBS05024CS	24 V DC	7 W	-10°C +40°C	100%	CE
LBS05230AS	230 V / 50 Hz 240 V / 60 Hz	11,5 VA	-10°C +40°C	100%	CE

- Tolerances on nominal voltages: AC + 10% - 15% DC + 10% - 5%
- Performances of the valve may vary with low power category coils. Please contact ODE before order.

DIN CONNECTIONS - CLASS H

CODE	VOLTAGE / FREQUENCY	POWER RATING	AMBIENT TEMPERATURE	DUTY CYCLE	APPROVALS
REDUCED POWER					
LBV04230AY	230 V / 50 Hz 240 V / 60 Hz	9 VA	-20°C +60°C	100%	CE | cULus | EAC
STANDARD POWER					
LBV05006CY	6 V DC	7 W	-20°C +60°C	100%	CE | cULus | EAC
LBV05012CY	12 V DC	7 W	-20°C +60°C	100%	CE | cULus | EAC
LBV05024CY	24 V DC	7 W	-20°C +60°C	100%	CE | cULus | EAC
LBV05024DY	24 V / 50-60 Hz	11 VA	-20°C +60°C	100%	CE | cULus | EAC
LBV05048CY	48 V DC	7 W	-20°C +60°C	100%	CE | cULus | EAC
LBV05110AY	110 V / 50 Hz 120 V / 60 Hz	10 VA	-20°C +60°C	100%	CE | cULus | EAC
LBV05230AY	230 V / 50 Hz 240 V / 60 Hz	11,5 VA	-20°C +60°C	100%	CE | cULus | EAC
REDUCED DUTY CYCLE					
LBV08024HU	24 V DC	10 W	-20°C +40°C	50%	CE | UL
LBV21012KW	12 V DC	21 W	-20°C +60°C	33%	CE | cULus
L0424024CS	24 V DC	24 W	-20°C +60°C	PWM 100 ms	CE

- Tolerances on nominal voltages: AC + 10% - 15% DC + 10% - 5%
- Cycle time considered for ED < 100% is 1 min.
- Performances of the valves may vary with low power or reduced duty cycle coils. Please contact ODE before order.

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- The power values are indicative, as they change as a function of magnetic kit used.
- The power values are referred to holding phase for AC voltages and to cold values for DC voltages.
- Coil encapsulation and bobbin are made of 100% virgin material.
- Other voltages and power absorptions available on demand and for minimum order quantities. Please contact ODE for further information.

CODE	VOLTAGE / FREQUENCY	POWER RATING	AMBIENT TEMPERATURE	DUTY CYCLE	APPROVALS
STANDARD POWER					
LTA05024AS	24 V / 50 Hz	10 VA	-10°C +40°C	100%	CE
LTA05230AS	230 V / 50 Hz	10 VA	-10°C +40°C	100%	CE

- Tolerances on nominal voltages: AC + 10% - 15% DC + 10% - 5%.
- Coil without cable protection, connect the S.V. to a suitable earthing system.
- Available on request with minimum quantities.

CODIFICATION

I	II	III	IV	V	VI	VII
L	B	V	05	024	C	Y

I. SERIES
L - Width 22 - tube Ø 10
B - Width 30 - tube Ø 13
U - Width 36 - tube Ø 13
G - Width 52 - tube Ø 13

II. ELECTRICAL CONNECTIONS
B - connector EN 175301-803 industry standard form B
D - connector EN 175301-803 form A
V - 2 cables cm 50
T - 2 cables cm 20

III. COIL HOUSING MATERIAL
A - PA - Black polyamide - class F (155°C)
V - PET - Black Polyethylene - class H (180°C)
H - PPS - Black Polyphenilsuplhide - class N (200°C)

IV. POWER RATING
1X - 1.5 W
2X - 2.5 W
4X - 7,2 VA
05 - 5 W - 7 W - 7,7 VA - 9,24 VA - 10 VA - 11,5 VA - 12,5 VA - 13,5 VA
5X - 9,13VA
08 - 8 W - 10 W - 11 W - 14,5 VA - 15 VA - 16 VA - 17 VA
10 - 9,9 W - 10,1 W
12 - 12 W - 22 VA - 23 VA - 25 VA
14 - 14 W - 23 VA - 26 VA - 27 VA
16 - 16 W

V. VOLTAGE
004 - 4,5 V
006 - 6 V
009 - 9 V
012 - 12 V
024 - 24 V
110 - 110 V / 50 Hz - 120 V / 60 Hz *
112 - 110 -120 V
220 - 220 V
223 - 220-230 V
224 - 220-240 V
230 - 230 V / 50 Hz - 240 V / 60 Hz *
240 - 240 V
380 - 380 V

VI. FREQUENCY
A - 50 Hz ED 100% *
B - 60 Hz ED 100%
C - D.C. ED 100%
D - 50/60 Hz ED 100%
E - 50 Hz ED 50%
H -D.C. ED 50%
L - Lachting coils

VII. APPROVALS
S - CE approval
U - CE, UL approval
Y - CE, UL, CSA, VDE approval

* Voltage code 110 A = 110 V / 50 Hz - 120 V / 60 Hz ED 100%
Voltage code 230 A = 230 V / 50 Hz - 240 V / 60 Hz ED 100%

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