

Planet Solenoid

Electromagnets · Linear Solenoids
Tubular Solenoids



Edition 2008

Intertec
C o m p o n e n t s



Content

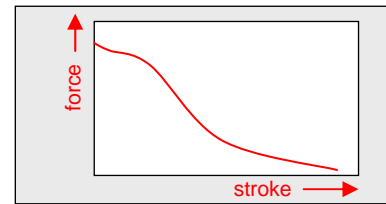
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Explanations

Stroke / Force Curve

The stroke force curve describes the relation between the stroke of a plunger and the force that can be used:



Choice

This catalogue contains a variety of most wanted solenoids and some very special types. In fact much more types are available. Please feel free to contact us for any support!

Force Data

The data field „force“ contains datas related to 20°C coil temperature and standard room conditions (as long there are no other information given).

Disclaimer

This catalogue is made with best diligence. We try our best to keep the content up to date. All rights reserved, no liability assumed.

Abbreviations

- IK:** Insulation classification
- DF:** Dielectric strength (at standard room conditions)

Contact

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Electromagnets

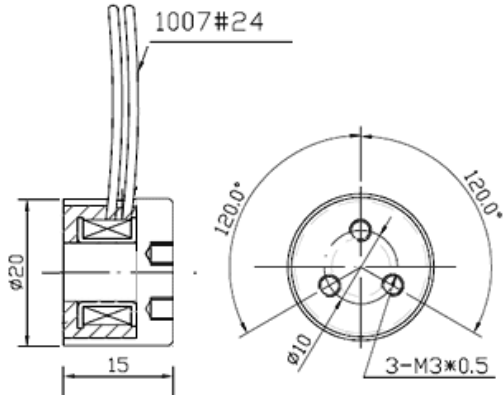
Electromagnets (encapsulated)



ITS-MS 2015

Drawing

Weight: 25 g



Coil Data

relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	-	-	-
max. Power (Watt)*	2,5	-	-	-

* at 20°C Coil temperature

Versions

Voltage	-	Standards
<input checked="" type="checkbox"/> 3 VDC		<input checked="" type="checkbox"/> TS 16949
<input checked="" type="checkbox"/> 6 VDC		<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 12 VDC		<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> 24 VDC		<input checked="" type="checkbox"/> DF: 1200x1min

Force Data

Holding Force: 2 kg at full contact of counterplate
 Thickness of Counterplate: 2 mm

Description

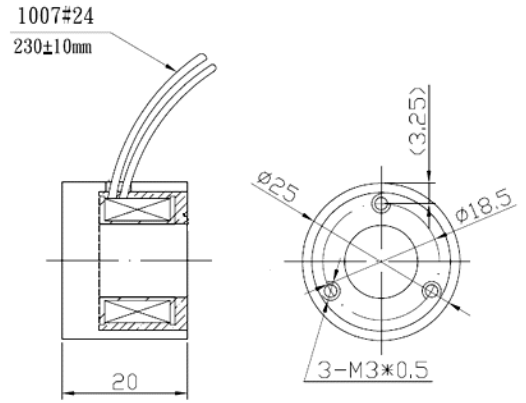
This series of electromagnets wins over price and quality ratio.



ITS-MS 2520

Drawing

Weight: 50 g



Coil Data

relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	-	-	-
max. Power (Watt)*	4,0	-	-	-

* at 20°C Coil temperature

Versions

Voltage	-	Standards
<input checked="" type="checkbox"/> 3 VDC		<input checked="" type="checkbox"/> TS 16949
<input checked="" type="checkbox"/> 6 VDC		<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 12 VDC		<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> 24 VDC		<input checked="" type="checkbox"/> DF: 1200x1min

Force Data

Holding Force: 6 kg at full contact of counterplate
 Thickness of Counterplate: 2,5 mm

Description



Electromagnets

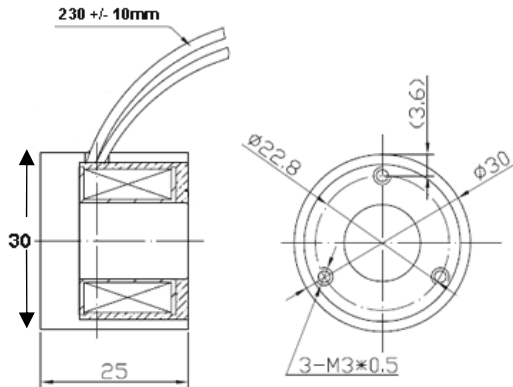
Electromagnets (encapsulated)



ITS-MS 3025

Drawing

Weight: 130 g



Coil Data

relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	-	-	-
max. Power (Watt)*	3,8	-	-	-

* at 20°C Coil temperature

Versions

Voltage	-	Standards
<input checked="" type="checkbox"/> 3 VDC		<input checked="" type="checkbox"/> TS 16949
<input checked="" type="checkbox"/> 6 VDC		<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 12 VDC		<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> 24 VDC		<input checked="" type="checkbox"/> DF: 1200x1min

Force Data

Holding Force: 10 kg at full contact of counterplate
 Thickness of Counterplate: 3,5 mm

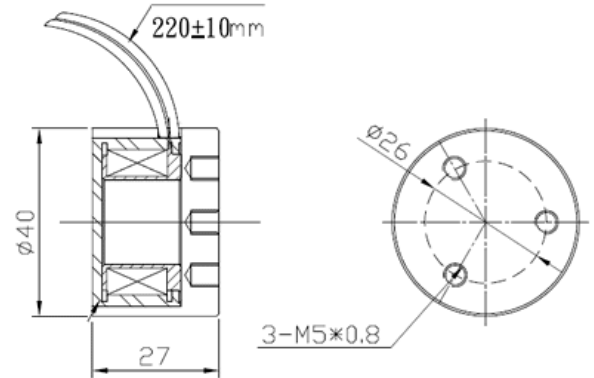
Description



ITS-MS 4027

Drawing

Weight: 230 g



Coil Data

relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	-	-	-
max. Power (Watt)*	6,0	-	-	-

* at 20°C Coil temperature

Versions

Voltage	-	Standards
<input checked="" type="checkbox"/> 3 VDC		<input checked="" type="checkbox"/> TS 16949
<input checked="" type="checkbox"/> 6 VDC		<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 12 VDC		<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> 24 VDC		<input checked="" type="checkbox"/> DF: 1200x1min

Force Data

Holding Force: 20 kg at full contact of counterplate
 Thickness of Counterplate: 4,5 mm

Description



Electromagnets

Electromagnets (encapsulated)



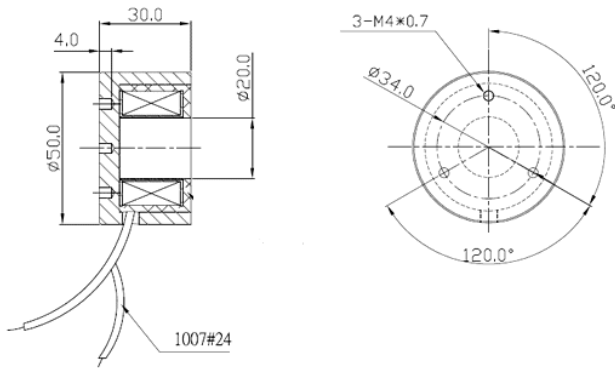
ITS-MS 5030



ITS-MS 7040

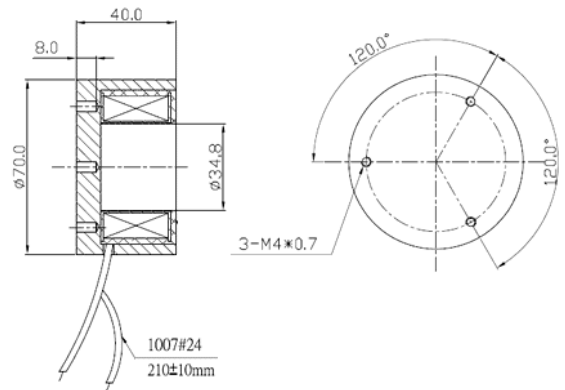
Drawing

Weight: 350 g



Drawing

Weight: 800 g



Coil Data

relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	-	-	-
max. Power (Watt)*	8	-	-	-

* at 20°C Coil temperature

Coil Data

relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	-	-	-
max. Power (Watt)*	24	-	-	-

* at 20°C Coil temperature

Versions

Voltage	-	Standards
<input type="checkbox"/> 3 VDC		<input checked="" type="checkbox"/> TS 16949
<input checked="" type="checkbox"/> 6 VDC		<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 12 VDC		<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> 24 VDC		<input checked="" type="checkbox"/> DF: 1200x1min

Versions

Voltage	-	Standards
<input type="checkbox"/> 3 VDC		<input checked="" type="checkbox"/> TS 16949
<input checked="" type="checkbox"/> 6 VDC		<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 12 VDC		<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> 24 VDC		<input checked="" type="checkbox"/> DF: 1200x1min

Force Data

Holding Force: 40 kg at full contact of counterplate
 Thickness of Counterplate: 5 mm

Force Data

Holding Force: 120 kg at full contact of counterplate
 Thickness of Counterplate: 7,0 mm

Description

Description



Linear Solenoids

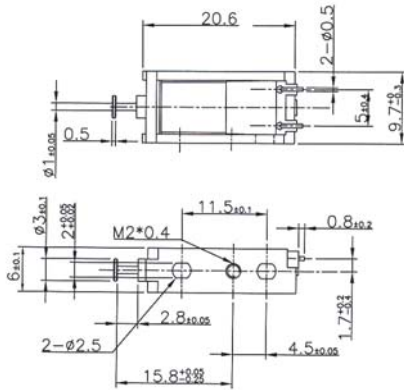
Frame types



ITS-LS 1006

Drawing

Weight: 5,3 g



Coil Data

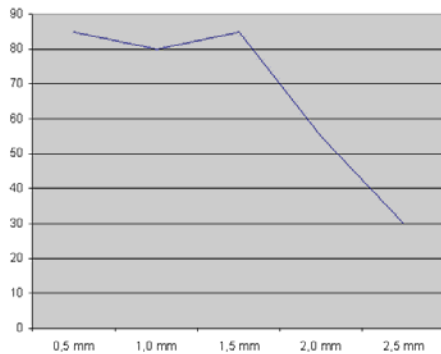
relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	45	20	8
max. Power (Watt)*	3,0	6,8	13	30

* at 20°C Coil temperature

Versions

Voltage	Versions	Standards
<input checked="" type="checkbox"/> 3,0 VDC	<input checked="" type="checkbox"/> Pull	
<input checked="" type="checkbox"/> 4,2 VDC	<input type="checkbox"/> Push	
	<input type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: A
	<input type="checkbox"/> Return Spring	<input checked="" type="checkbox"/> DF: 250 x 1min

Stroke Force Curve (g/mm)



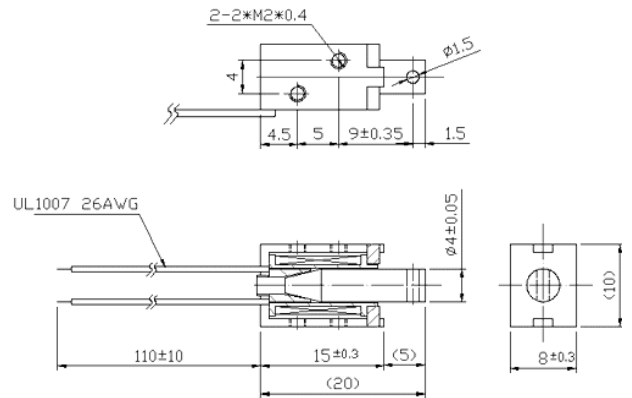
Description



ITS-LS 1008

Drawing

Weight: 5,4 g



Coil Data

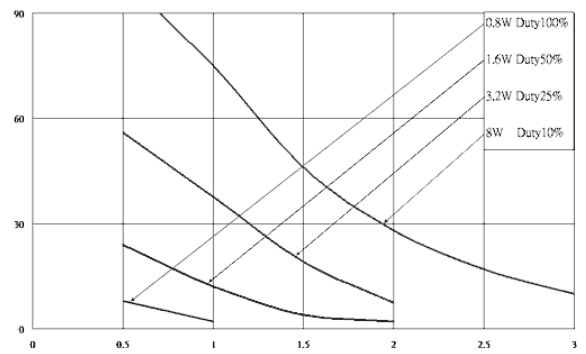
relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	50	18	3
max. Power (Watt)*	0,8	1,6	3,2	8,0

* at 20°C Coil temperature

Versions

Voltage	Versions	Standards
<input checked="" type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS 16949
<input checked="" type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Push	<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 12 VDC	<input type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> 24 VDC	<input checked="" type="checkbox"/> Return Spring	<input checked="" type="checkbox"/> DF: 1200 x 1min

Stroke Force Curve (g/mm)



Description



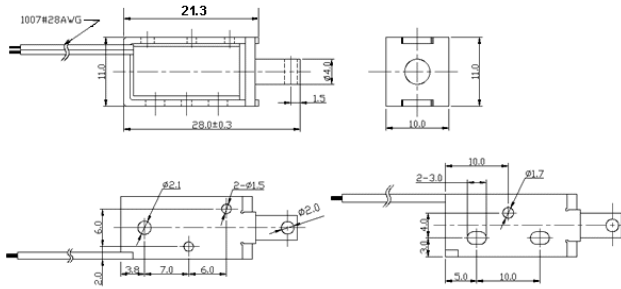
Linear Solenoids



ITS-LS 1110b

Drawing

Weight: 10 g



Coil Data

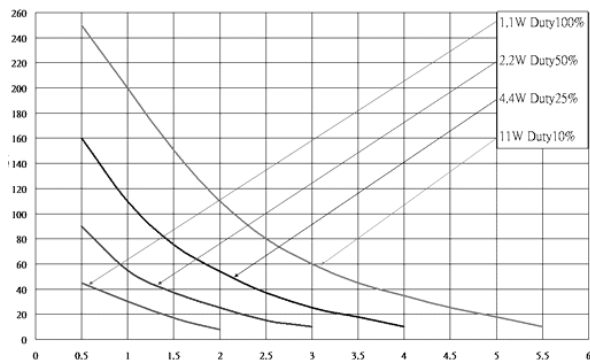
relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	50	18	2
max. Power (Watt)*	1.1	2.2	4.4	11

* at 20°C Coil temperature

Versions

Voltage	Versions	Standards
<input checked="" type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	
<input checked="" type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Push	
<input checked="" type="checkbox"/> 12 VDC	<input type="checkbox"/> Keep Type	
<input checked="" type="checkbox"/> 24 VDC	<input checked="" type="checkbox"/> Return Spring	

Stroke Force Curve (g/mm)



Description



Linear Solenoids

Frame types



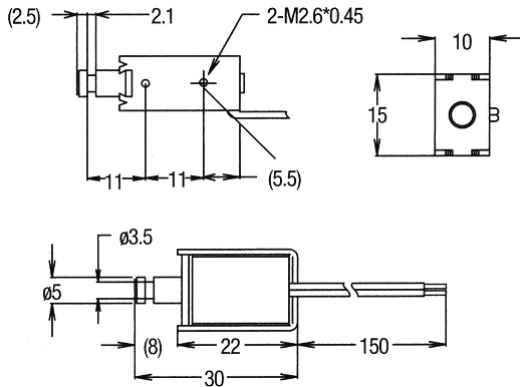
ITS-LS 1510a



ITS-LS 1510b

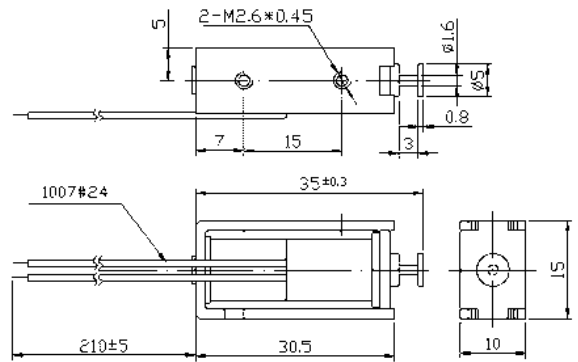
Drawing

Weight: 16 g



Drawing

Weight: 20g



Coil Data

relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	n.n.	n.n.	n.n.
max. Power (Watt)*	1,5	3,0	6,0	15

* at 20°C Coil temperature

Coil Data

relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	50	18	2
max. Power (Watt)*	1,8	3,6	7,2	18

* at 20°C Coil temperature

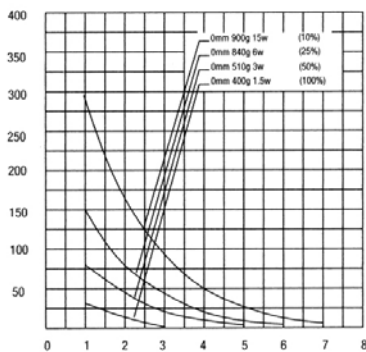
Versions

Voltage	Versions	Standards
<input checked="" type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	
<input checked="" type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Push	
<input checked="" type="checkbox"/> 12 VDC	<input type="checkbox"/> Keep Type	
<input checked="" type="checkbox"/> 24 VDC	<input checked="" type="checkbox"/> Return Spring	

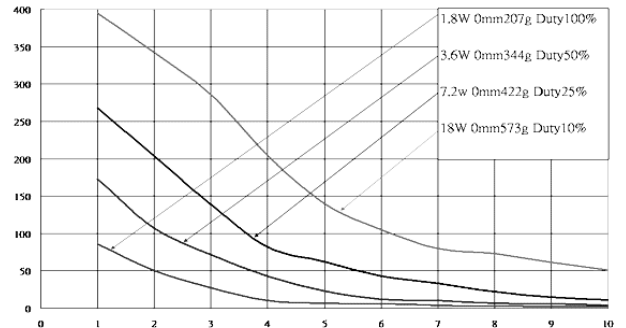
Versions

Voltage	Versions	Standards
<input checked="" type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS 16949
<input checked="" type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Push	<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 12 VDC	<input type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> 24 VDC	<input checked="" type="checkbox"/> Return Spring	

Stroke Force Curve (g/mm)



Stroke Force Curve (g/mm)



Description

Description



Linear Solenoids

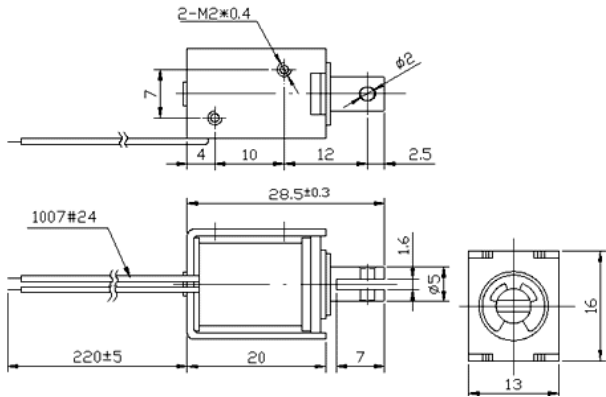
Frame types



ITS-LS 1613

Drawing

Weight: ca. 27 g



Coil Data

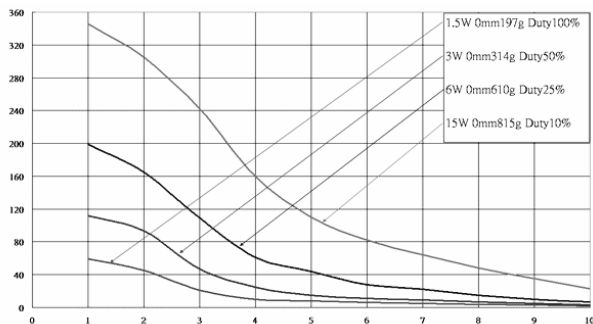
relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	50	18	2
max. Power (Watt)*	1,5	3	6	15

* at 20°C Coil temperature

Versions

Voltage	Versions	Standards
<input checked="" type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS 16949
<input checked="" type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Push	<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 12 VDC	<input type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> 24 VDC	<input checked="" type="checkbox"/> Return Spring	

Stroke Force Curve (g/mm)



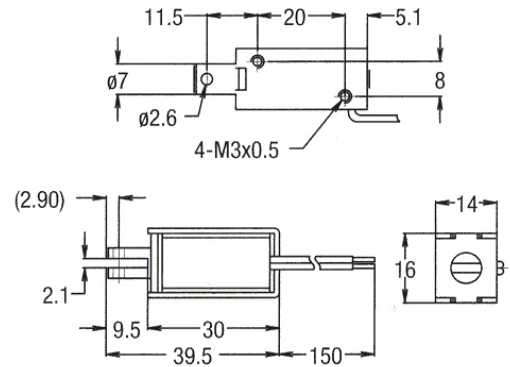
Description



ITS-LS 1614

Drawing

Weight: 33 g



Coil Data

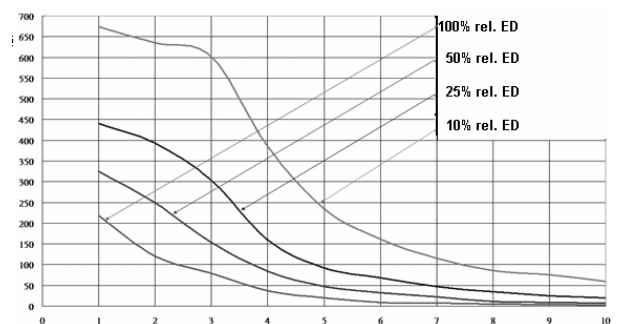
relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	55	19	3
max. Power (Watt)*	2,0	4,0	8,0	20

* at 20°C Coil temperature

Versions

Voltage	Versions	Standards
<input checked="" type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS 16949
<input checked="" type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Push	<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 12 VDC	<input type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> 24 VDC	<input checked="" type="checkbox"/> Return Spring	

Stroke Force Curve (g/mm)



Description



Linear Solenoids

Frame types

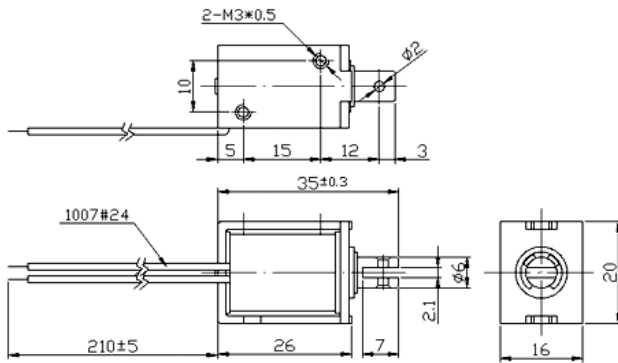


ITS-LS 2016a

Abbildung ähnlich

Drawing

Weight: 40 g



Coil Data

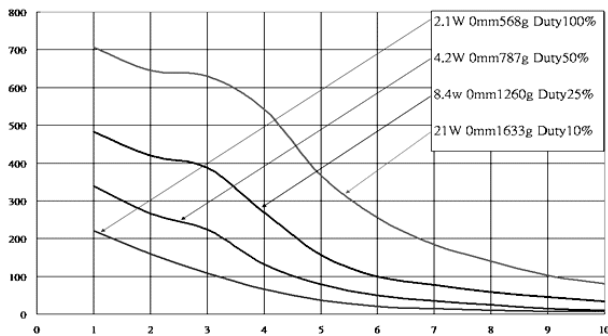
relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	55	19	3
max. Power (Watt)*	2,1	4,2	8,4	21

* at 20°C Coil temperature

Versions

Voltage	Versions	Standards
<input checked="" type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS 16949
<input checked="" type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Push	<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 12 VDC	<input type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> 24 VDC	<input checked="" type="checkbox"/> Return Spring	

Stroke Force Curve (g/mm)



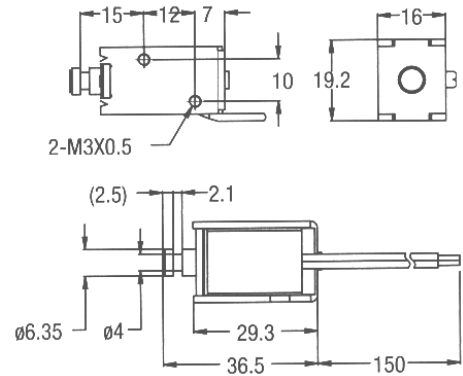
Description



ITS-LS 2016b

Drawing

Weight: 41 g



Coil Data

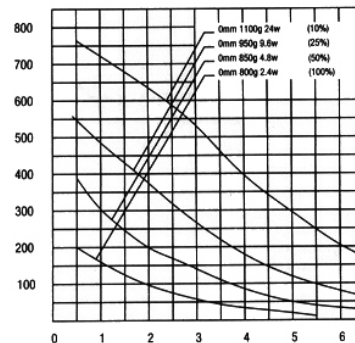
relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	55	19	3
max. Power (Watt)*	2,4	4,8	9,6	24

* at 20°C Coil temperature

Versions

Voltage	Versions	Standards
<input checked="" type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	
<input checked="" type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Push	
<input checked="" type="checkbox"/> 12 VDC	<input type="checkbox"/> Keep Type	
<input checked="" type="checkbox"/> 24 VDC	<input checked="" type="checkbox"/> Return Spring	

Stroke Force Curve (g/mm)



Description



Linear Solenoids

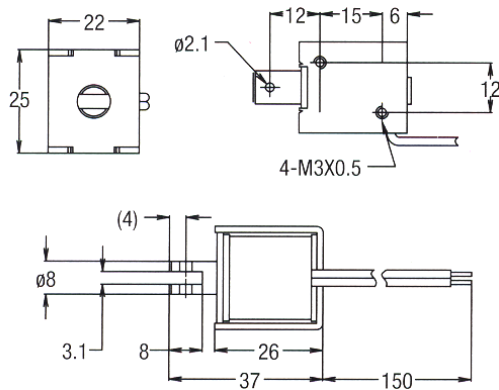
Frame types



ITS-LS 2522

Drawing

Weight: 46 g



Coil Data

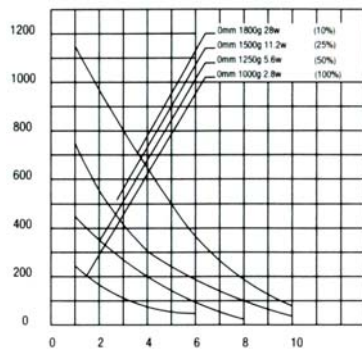
relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	100	36	7
max. Power (Watt)*	2,5	5	10	25

* at 20°C Coil temperature

Versions

Voltage	Versions	Standards
<input checked="" type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	
<input checked="" type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Push	
<input checked="" type="checkbox"/> 12 VDC	<input type="checkbox"/> Keep Type	
<input checked="" type="checkbox"/> 24 VDC	<input checked="" type="checkbox"/> Return Spring	

Stroke Force Curve (g/mm)



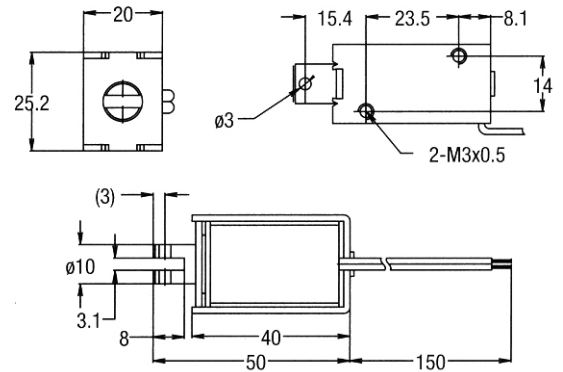
Description



ITS-LS 2520

Drawing

Weight: 110 g



Coil Data

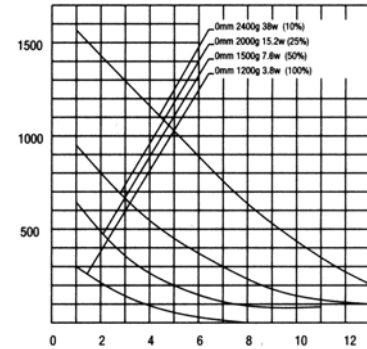
relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	140	50	9
max. Power (Watt)*	3,8	7,6	15	38

* at 20°C Coil temperature

Versions

Voltage	Versions	Standards
<input checked="" type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	
<input checked="" type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Push	
<input checked="" type="checkbox"/> 12 VDC	<input type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: A
<input checked="" type="checkbox"/> 24 VDC	<input checked="" type="checkbox"/> Return Spring	<input checked="" type="checkbox"/> DF: 1000 x 1min

Stroke Force Curve (g/mm)



Description



Linear Solenoids

Frame types



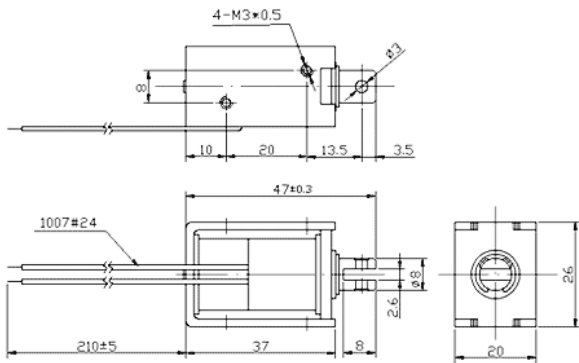
ITS-LS 2620a



ITS-LS 2620b

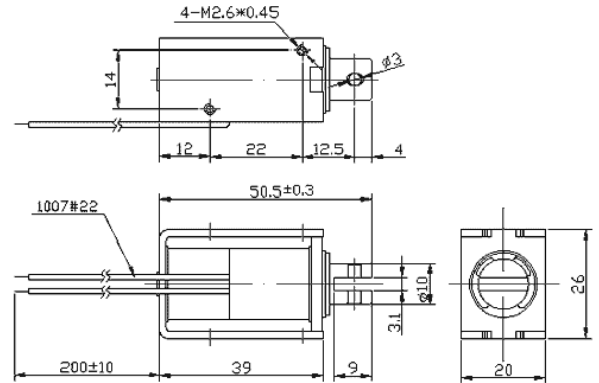
Drawing

Weight: ca. 92 g



Drawing

Weight: 98 g



Coil Data

relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	100	36	7
max. Power (Watt)*	3,8	7,6	15	38

* at 20°C Coil temperature

Coil Data

relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	140	50	9
max. Power (Watt)*	3,8	7,6	15	38

* at 20°C Coil temperature

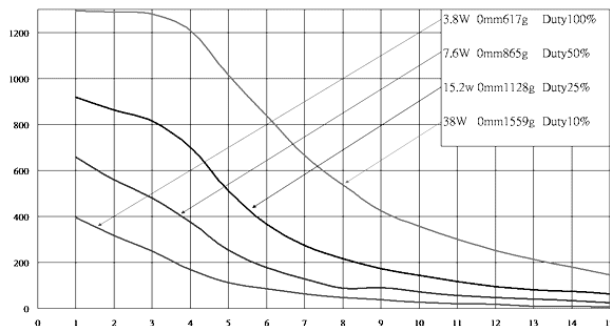
Versions

Voltage	Versions	Standards
<input type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS 16949
<input checked="" type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Push	<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 12 VDC	<input type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> 24 VDC	<input checked="" type="checkbox"/> Return Spring	

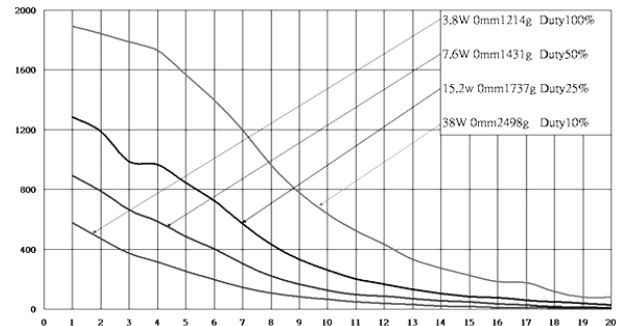
Versions

Voltage	Versions	Standards
<input type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS 16949
<input checked="" type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Push	<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 12 VDC	<input type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> 24 VDC	<input checked="" type="checkbox"/> Return Spring	

Stroke Force Curve (g/mm)



Stroke Force Curve (g/mm)



Description

Description



Linear Solenoids

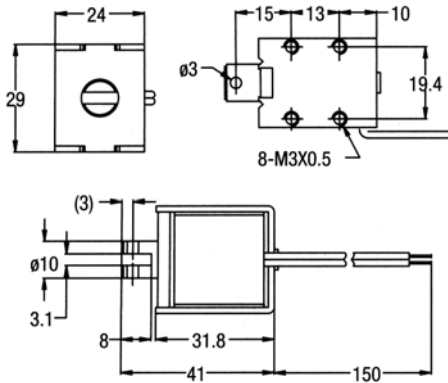
Frame types



ITS-LS 2924a

Drawing

Weight: 103 g



Coil Data

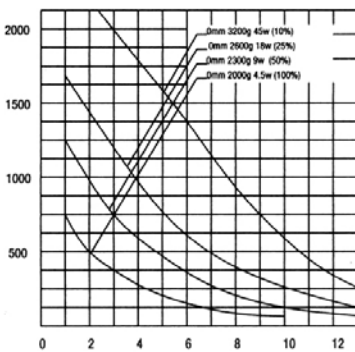
relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	140	50	9
max. Power (Watt)*	4,5	9,0	18	45

* at 20°C Coil temperature

Versions

Voltage	Versions	Standards
<input type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	
<input checked="" type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Push	
<input checked="" type="checkbox"/> 12 VDC	<input type="checkbox"/> Keep Type	
<input checked="" type="checkbox"/> 24 VDC	<input checked="" type="checkbox"/> Return Spring	

Stroke Force Curve (g/mm)



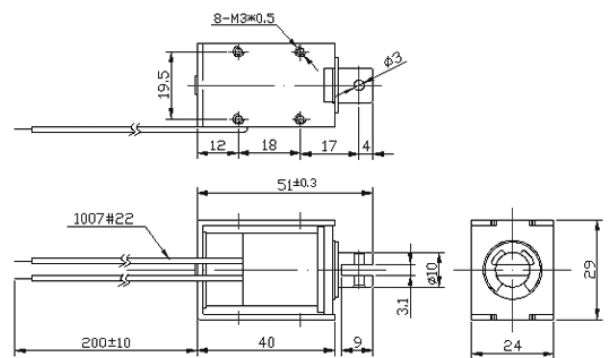
Description



ITS-LS 2924b

Drawing

Weight: 147 g



Coil Data

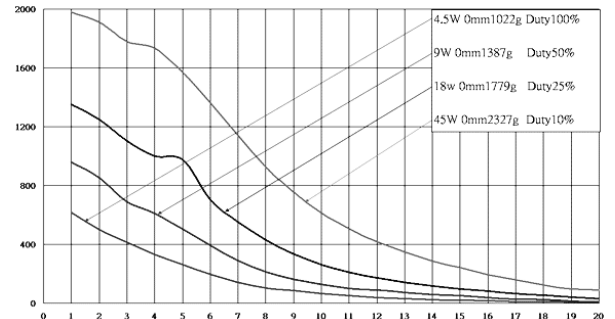
relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	140	50	9
max. Power (Watt)*	4,5	9,0	18	45

* at 20°C Coil temperature

Versions

Voltage	Versions	Standards
<input type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS16949
<input checked="" type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Push	<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 12 VDC	<input type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> 24 VDC	<input checked="" type="checkbox"/> Return Spring	

Stroke Force Curve (g/mm)



Description



Linear Solenoids

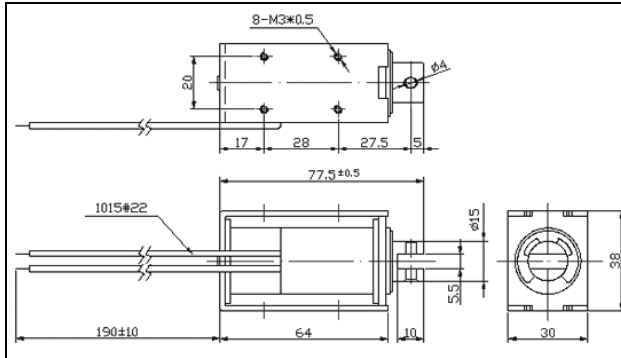
Frame types



ITS-LS 3830b

Drawing

Weight: 317g



Coil Data

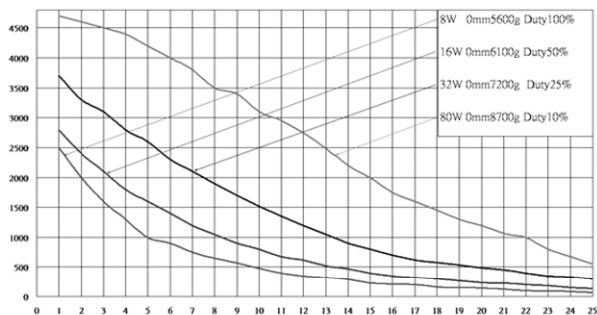
relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	150	50	9
max. Power (Watt)*	8	16	32	80

* at 20°C Coil temperature

Versions

Voltage	Versions	Standards
<input type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS 16949
<input checked="" type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Push	<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 12 VDC	<input type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> 24 VDC	<input checked="" type="checkbox"/> Return Spring	

Stroke Force Curve (g/mm)



Description



Linear Solenoids

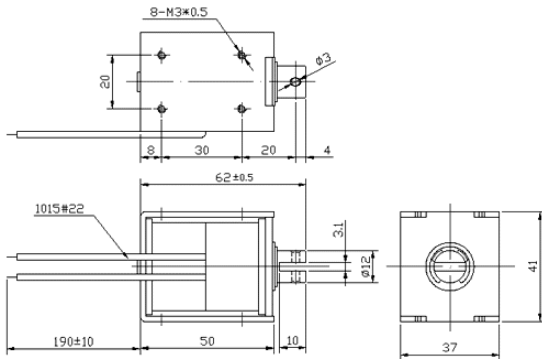
Frame types



ITS-LS 4137

Drawing

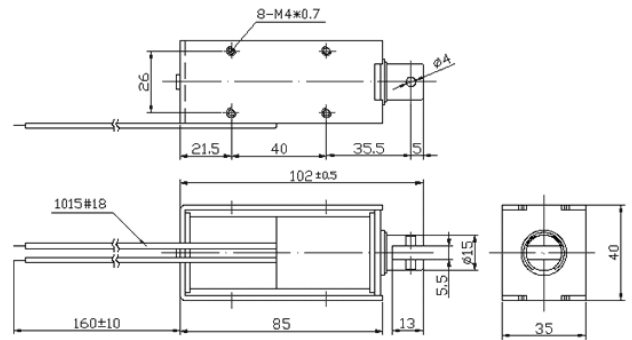
Weight: **336g**



ITS-LS 4035

Drawing

Weight: **565g**



Coil Data

relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	140	50	9
max. Power (Watt)*	7,5	15	30	75

* at 20°C Coil temperature

Coil Data

relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	160	80	9
max. Power (Watt)*	12,7	25	81	127

* at 20°C Coil temperature

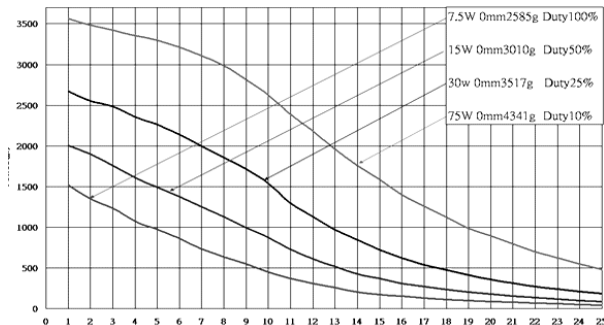
Versions

Voltage	Versions	Standards
<input type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS 16949
<input checked="" type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Push	<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 12 VDC	<input type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> 24 VDC	<input checked="" type="checkbox"/> Return Spring	

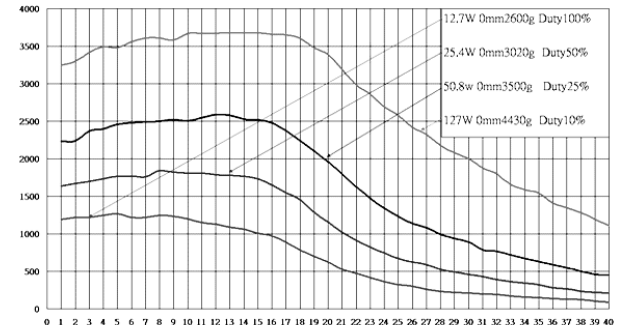
Versions

Voltage	Versions	Standards
<input type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS 16949
<input checked="" type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Push	<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 12 VDC	<input type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> 24 VDC	<input checked="" type="checkbox"/> Return Spring	

Stroke Force Curve (g/mm)



Stroke Force Curve (g/mm)



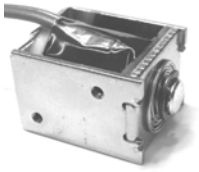
Description

Description

Mit der nahezu konstanten Pullkraft bis rund 15mm ein durchaus interessanter Magnet auch für spezielle Anwendungsgebiete.



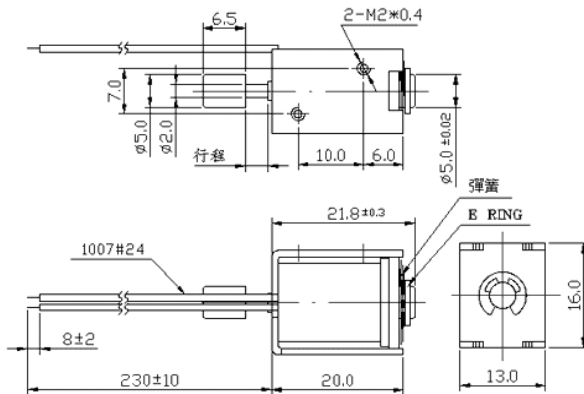
Linear Solenoids



ITS-LH 1613

Drawing

Weight: 19 g



Coil Data

relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	60	34	7
max. Power (Watt)*	1,5	3	9	15

* at 20°C Coil temperature

Versions

Voltage	Versions	Standards
<input checked="" type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS 16949
<input checked="" type="checkbox"/> 6 VDC	<input type="checkbox"/> Push	<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 12 VDC	<input checked="" type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> 24 VDC	<input checked="" type="checkbox"/> Pushfeder	<input checked="" type="checkbox"/> DF: 500*1min

Stroke Force Curve (g/mm)

Holding Force unbestromt (0 mm): ≥ 2 N

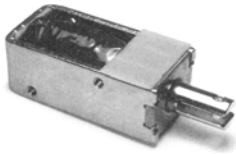
Description

Ein integrierter Permanentmagnet hält den Tauchkern in eingefahrenem Zustand. Durch seine Größe ein z.B. für kleine Schließmechaniken interessanter Magnet.



Linear Solenoids

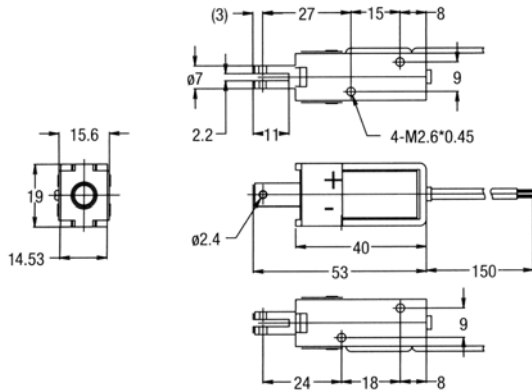
Frame Types (monostable)



ITS-LH 1916

Drawing

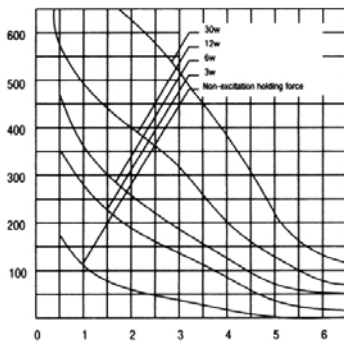
Weight: 60 g



relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	50	25	8
max. Power (Watt)*	3,0	6,0	12	30

* at 20°C Coil temperature

Voltage	Versions	Standards
<input checked="" type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	
<input checked="" type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Push	
<input checked="" type="checkbox"/> 12 VDC	<input checked="" type="checkbox"/> Keep Type	
<input checked="" type="checkbox"/> 24 VDC	<input type="checkbox"/> Pushfeder	





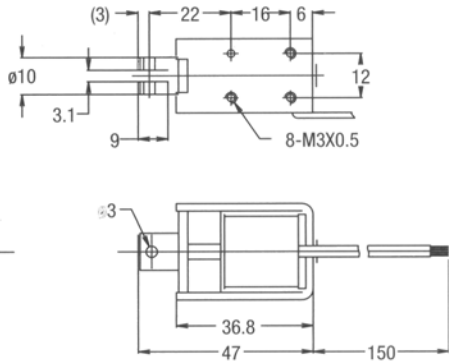
Linear Solenoids

Frame Types (monostable)



ITS-LH 2620

Weight: **95 g**



Coil Data

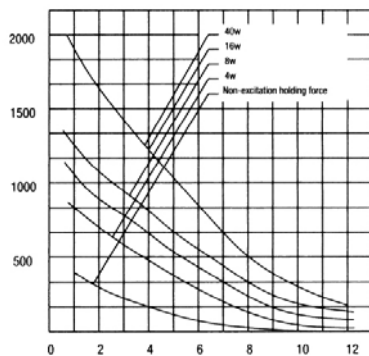
relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	160	90	30
max. Power (Watt)*	4	8	16	40

* at 20°C Coil temperature

Versions

Voltage	Versions	Standards
<input checked="" type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	
<input checked="" type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Push	
<input checked="" type="checkbox"/> 12 VDC	<input checked="" type="checkbox"/> Keep Type	
<input checked="" type="checkbox"/> weitere	<input type="checkbox"/> Return Spring	

Stroke Force Curve (g/mm)



Description



Linear Solenoids

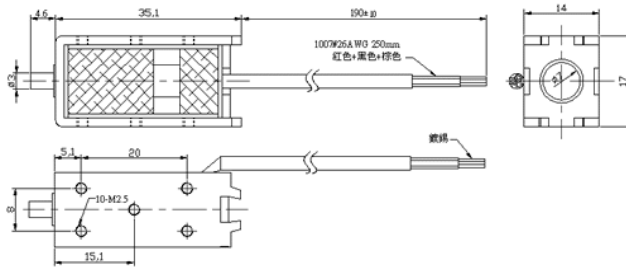
Frame Types (bistable)



ITS-LX 1714

Drawing

Weight: **36 g**



Coil Data

relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	-	2	-
max. Power (Watt)*	-	-	8,0	-

* at 20°C Coil temperature

Versions

Voltage	Versions	Standards
<input type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS 16949
<input type="checkbox"/> 12 VDC	<input checked="" type="checkbox"/> Push	<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 24 VDC	<input checked="" type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: A
<input type="checkbox"/> 48 VDC	<input type="checkbox"/> Return Spring	

Force Data

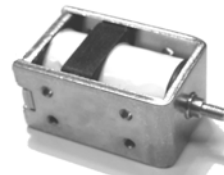
Holding Force bei 0 Volt (Stößel ausgefahren): mind. 1,0. kg
Stroke: 4 mm

Description

Linearmagnet mit zwei getrennten Spulen.

Anschluss: Rot (+): Stromversorgung
Grün (-) => Spule 1
Grau (-) => Spule 2

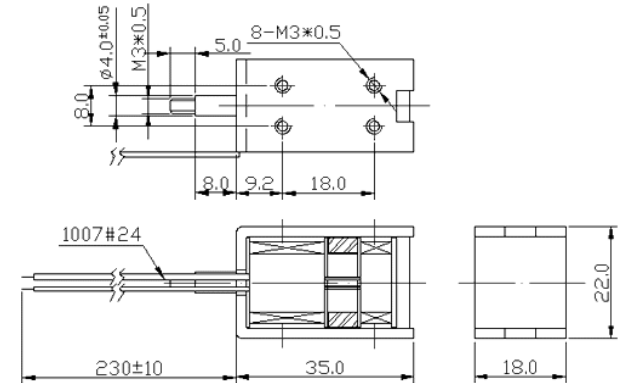
Betrieb ausschließlich mit genannter rel.ED.



ITS-LX 2218

Drawing

Weight: **67 g**



Coil Data

relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	-	2	-
max. Power (Watt)*	-	-	53	-

* at 20°C Coil temperature

Versions

Voltage	Versions	Standards
<input type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS 16949
<input checked="" type="checkbox"/> 12 VDC	<input checked="" type="checkbox"/> Push	<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 24 VDC	<input checked="" type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> 48 VDC	<input type="checkbox"/> Return Spring	

Force Data

Holding Force bei 0 Volt (Stößel eingefahren): mind. 2,0 kg
(Stößel ausgefahren): mind. 2,0 kg
Stroke: 6 mm

Description

Echter bistabiler Linearmagnet mit geteilter Spule.

Anschluss: Rot (+), Grün (-) => Tauchkern einfahren
Rot (-), Grün (+) => Tauchkern ausfahren

Betrieb ausschließlich mit genannter rel.ED.



Linear Solenoids

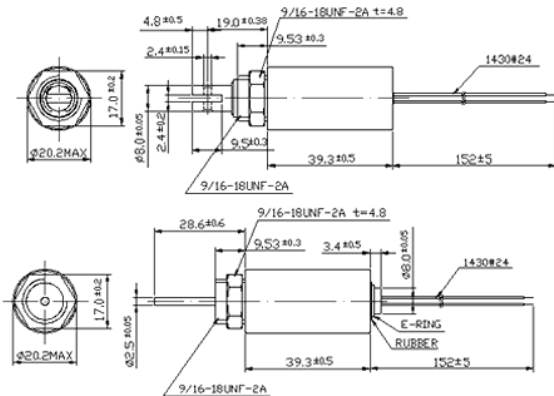
Tubular Types



ITS-LZ 1949

Drawing

Weight: 86 g



Coil Data

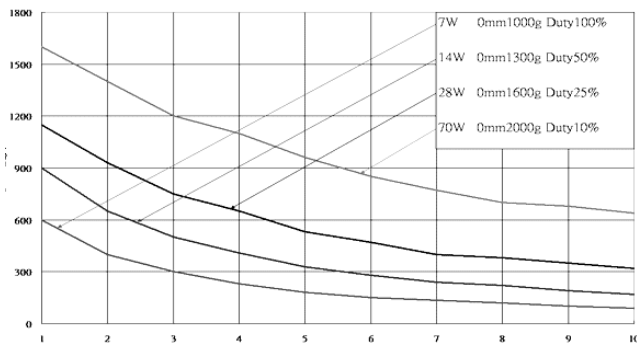
relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	230	25	6
max. Power (Watt)*	7,0	14,0	28	70

* at 20°C Coil temperature

Versions

Voltage	Versions	Standards
<input type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS 16949 <input checked="" type="checkbox"/> ISO 14000 <input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Push	
<input checked="" type="checkbox"/> 12 VDC	<input type="checkbox"/> Keep Type	
<input checked="" type="checkbox"/> weitere	<input checked="" type="checkbox"/> Return Spring	

Stroke Force Curve (g/mm)



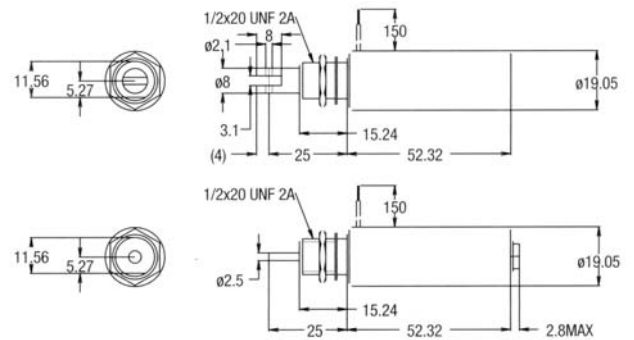
Description



ITS-LZ 1968

Drawing

Weight: 96 g



Coil Data

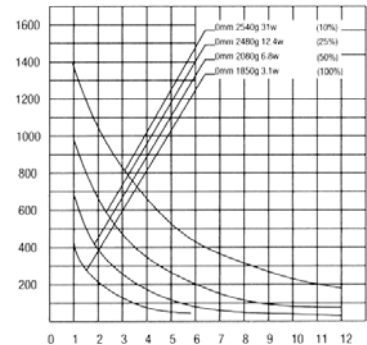
relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	n.n.	n.n.	n.n.
max. Power (Watt)*	4,5	9	18	45

* at 20°C Coil temperature

Versions

Voltage	Versions	Standards
<input type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS 16949 <input checked="" type="checkbox"/> ISO 14000 <input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Push	
<input checked="" type="checkbox"/> 12 VDC	<input type="checkbox"/> Keep Type	
<input checked="" type="checkbox"/> weitere	<input checked="" type="checkbox"/> Return Spring	

Stroke Force Curve (g/mm)



Description



Linear Solenoids

Tubular Types



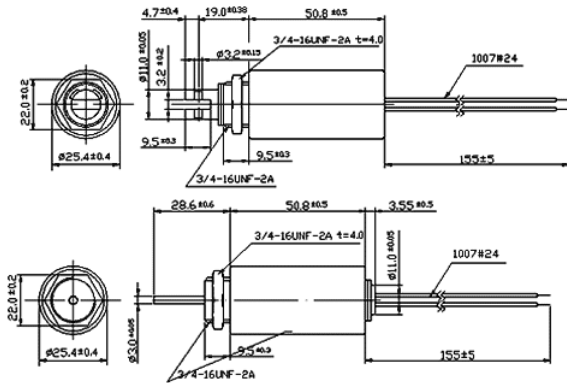
ITS-LZ 2560



ITS-LZ 2672

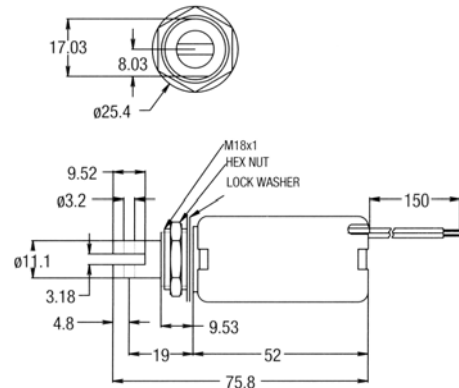
Drawing

Weight: 180 g



Drawing

Weight: 167 g



Coil Data

relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	360	32	8
max. Power (Watt)*	10	20	40	100

* at 20°C Coil temperature

Coil Data

relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	n.n.	n.n.	n.n.
max. Power (Watt)*	3,8	7,6	15	38

* at 20°C Coil temperature

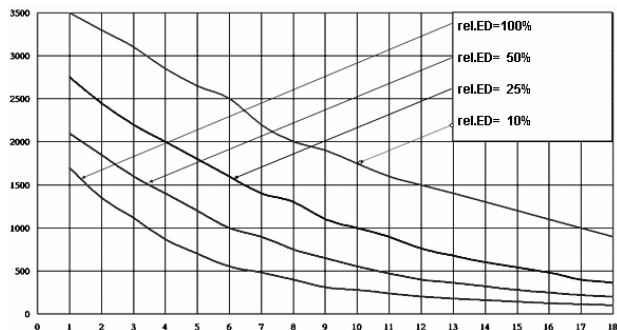
Versions

Voltage	Versions	Standards
<input type="checkbox"/> 3 VDC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS 16949
<input checked="" type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Push	<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 12 VDC	<input type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> weitere	<input checked="" type="checkbox"/> Return Spring	

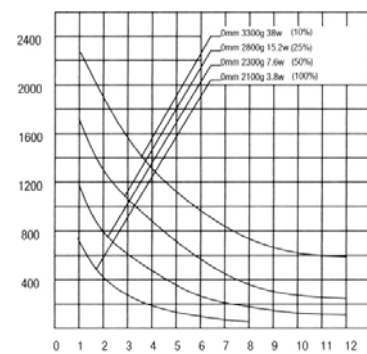
Versions

Voltage	Versions	Standards
<input type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Pull	
<input checked="" type="checkbox"/> 12 VDC	<input type="checkbox"/> Push	
<input checked="" type="checkbox"/> 24 VDC	<input type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> weitere	<input type="checkbox"/> Return Spring	<input checked="" type="checkbox"/> DF: 1200 x 1sec

Stroke Force Curve (g/mm)



Stroke Force Curve (g/mm)



Description

Description



Linear Solenoids



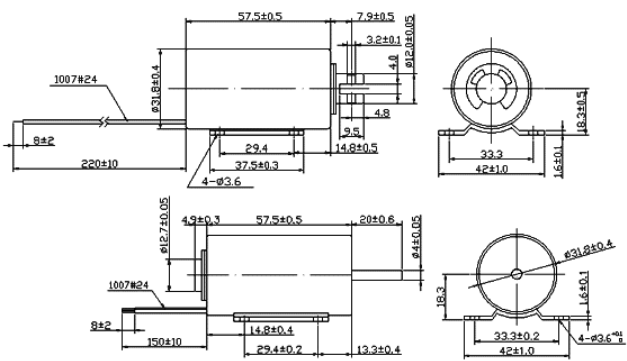
ITS-LZ 3263



ITS-LZ 3869

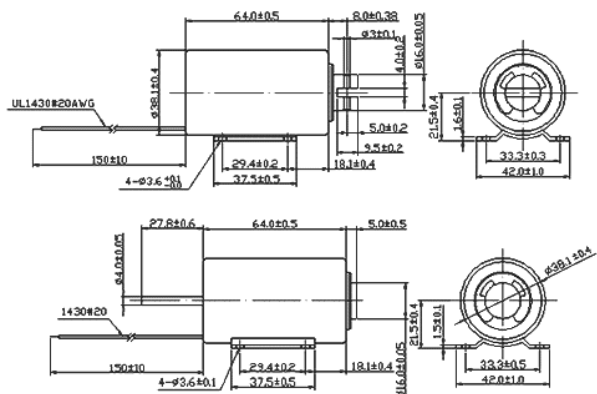
Drawing

Weight: 273 g



Drawing

Weight: 475 g



Coil Data

relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	390	60	18
max. Power (Watt)*	13	26	52	130

* at 20°C Coil temperature

Coil Data

relative ED (Percent)	100	50	25	10
max. ED (Seconds)	∞	420	100	25
max. Power (Watt)*	17	34	68	170

* at 20°C Coil temperature

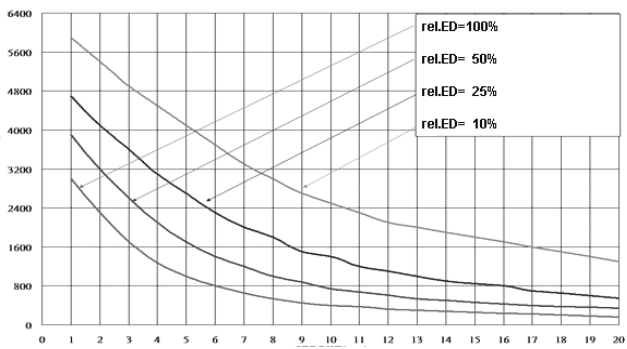
Versions

Voltage	Versions	Standards
<input type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS 16949
<input checked="" type="checkbox"/> 12 VDC	<input checked="" type="checkbox"/> Push	<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 24 VDC	<input type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> weitere	<input checked="" type="checkbox"/> Return Spring	

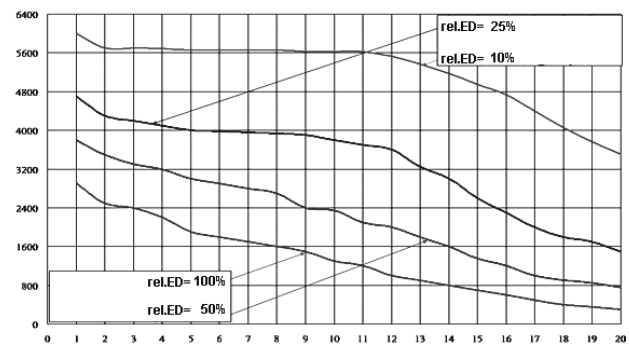
Versions

Voltage	Versions	Standards
<input type="checkbox"/> 6 VDC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS 16949
<input checked="" type="checkbox"/> 12 VDC	<input checked="" type="checkbox"/> Push	<input checked="" type="checkbox"/> ISO 14000
<input checked="" type="checkbox"/> 24 VDC	<input type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: B
<input checked="" type="checkbox"/> weitere	<input checked="" type="checkbox"/> Return Spring	

Stroke Force Curve (g/mm)



Stroke Force Curve (g/mm)



Description

Description

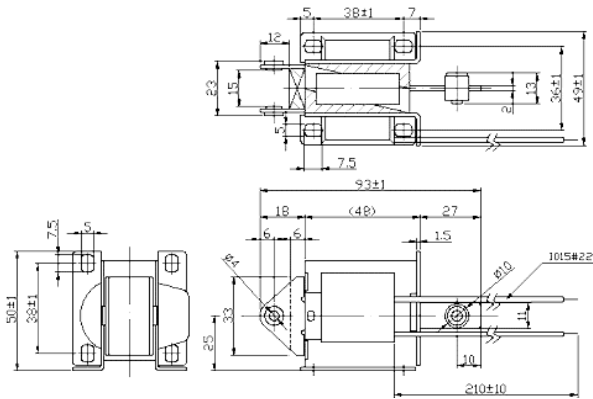


Linear Solenoids



ITS-LL 5049

Drawing



Coil Data

AnPullstrom (220 VAC): 1,3 A
Haltestrom (220 VAC): 0,2 A
Wechselstrom (50Hz / 60Hz)

Versions

Voltage	Versions	Standards
<input checked="" type="checkbox"/> 120 VAC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS16949
<input checked="" type="checkbox"/> 220 VAC	<input type="checkbox"/> Push	<input checked="" type="checkbox"/> ISO 14000
	<input type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: B
	<input type="checkbox"/> Return Spring	

Force Data

Stroke: 15 mm
Force: 1,0 kg

Description



Linear Solenoids

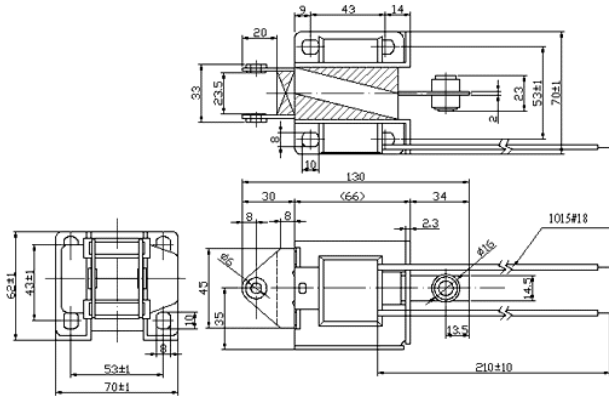
Laminated Types



ITS-LL 6370

Drawing

Weight: ca. 0,9 kg



Coil Data

AnPulsstrom (220 VAC): 4,2 A
Haltestrom (220 VAC): 0,4 A
Wechselstrom (50Hz / 60Hz)

Versions

Voltage	Versions	Standards
<input checked="" type="checkbox"/> 120 VAC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS16949
<input checked="" type="checkbox"/> 220 VAC	<input type="checkbox"/> Push	<input checked="" type="checkbox"/> ISO 14000
	<input type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: B
	<input type="checkbox"/> Return Spring	

Force Data

Stroke: 20 mm
Force: 3,0 kg

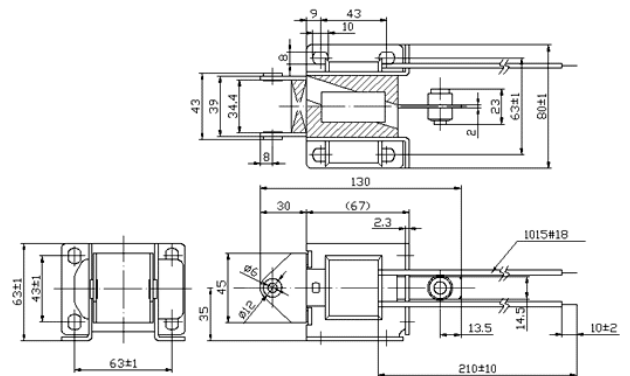
Description



ITS-LL 6380

Drawing

Weight: 1,3 kg



Coil Data

AnPulsstrom (220 VAC): 5,5 A
Haltestrom (220 VAC): 0,48 A
Wechselstrom (50Hz / 60Hz)

Versions

Voltage	Versions	Standards
<input checked="" type="checkbox"/> 120 VAC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS16949
<input checked="" type="checkbox"/> 220 VAC	<input type="checkbox"/> Push	<input checked="" type="checkbox"/> ISO 14000
	<input type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: B
	<input type="checkbox"/> Return Spring	

Force Data

Stroke: 20 mm
Force: 5,0 kg

Description



Linear Solenoids

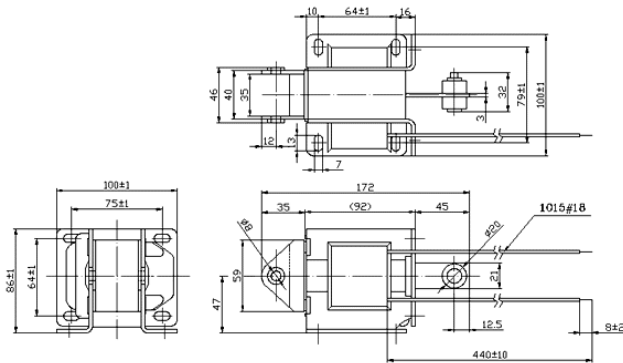
Laminated Types



ITS-LL 86100

Drawing

Weight: 6,0 kg



Coil Data

AnPullstrom (220 VAC): 13 A
 Haltestrom (220 VAC): 0,9 A
 Wechselstrom (50Hz / 60Hz)

Versions

Voltage	Versions	Standards
<input checked="" type="checkbox"/> 120 VAC	<input checked="" type="checkbox"/> Pull	<input checked="" type="checkbox"/> TS16949
<input checked="" type="checkbox"/> 220 VAC	<input type="checkbox"/> Push	<input checked="" type="checkbox"/> ISO 14000
	<input type="checkbox"/> Keep Type	<input checked="" type="checkbox"/> IK: B
	<input type="checkbox"/> Return Spring	

Force Data

Stroke: 30 mm
 Force: 6,0 kg

Description



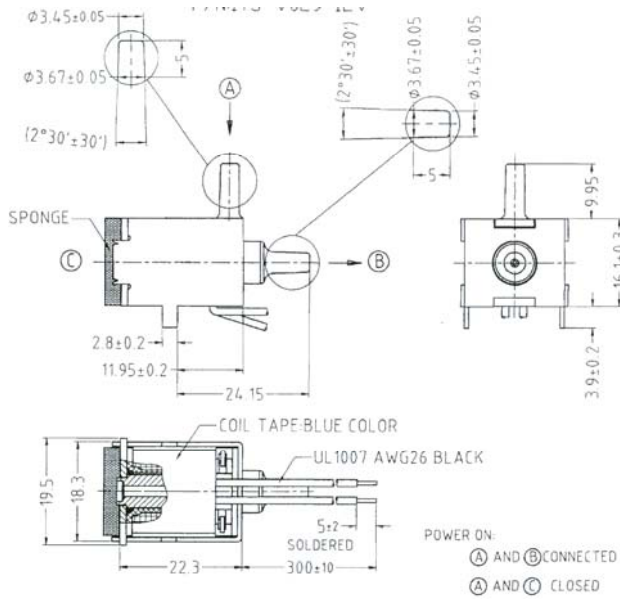
Solenoid Valves



ITS-VS 029

Drawing

Weight: 29g



Coil Data*

Rated Voltage: 12 VDC
 Rated Current: 0.133 A
 Resistance: 90 Ω
 Insulation Class (IK): B (130°C)
 Duty Cycle: 100%

* at 20°C coil temperature

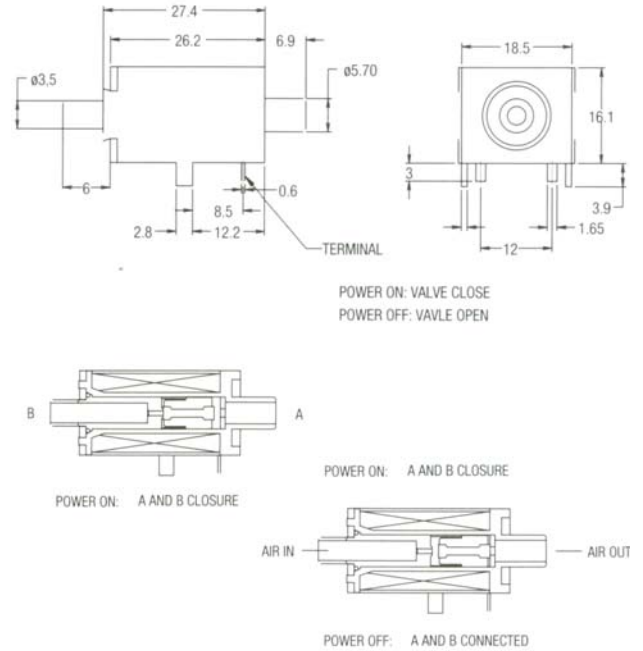
Ventil Data

Medium: Air
 Internal Leakage: 5 psi max (-5psi)
 Orifice Inside Diameter: B ϕ 0.80 mm C ϕ 0.90 mm
 Lifecycle: 100.000 Cycles



ITS-VS 0627

Drawing



Coil Data*

Rated Voltage: 12 VDC
 Rated Current: 0,192 A
 Resistance: 63 Ω
 Insulation Class (IK): A (105°C)
 Duty Cycle: 100%

* 20°C Coil Temp.

Ventil Data

Medium: Air
 Internal Leakage: 5 psi max (-5psi)
 Orifice Inside Diameter: ϕ 0.9 – 1.6 mm
 Lifecycle: n.n. Cycles