



OPEN FRAME SOLENOIDS | Pull type

Transmotec sell a broad range of high quality solenoids in standard and customized configurations. Transmotec is the ideal supplier source especially to instrument and apparatus builders. We keep a high number of motors in stock for immediate delivery.

Customizations include:

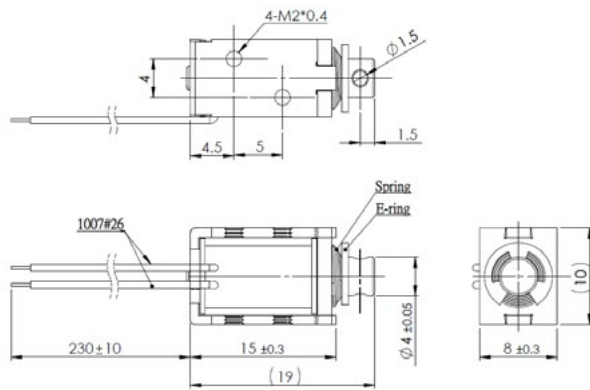
- ✓ Customized harness
- ✓ Winding configuration
- ✓ Plunger configuration
- ✓ And more...

TABLE OF CONTENTS

Model	Length	Width	Height	Page
F0415L	15mm	8mm	10mm	1
F0520L	20mm	13mm	16mm	2
F0530L	30mm	10mm	15mm	3
F0626L	46mm	16mm	20mm	4
F0630L	29.5mm	19mm	16mm	5
F0730L	30.2mm	16mm	14mm	6
F0826L	26mm	25mm	22mm	7
F0837L	37mm	26mm	20mm	8
F1037L	37mm	26mm	20mm	9
F1039L	39mm	20mm	26mm	10
F1040L	40mm	24mm	29mm	11
F1250L	50mm	37mm	41mm	12
F1253L	53.5mm	27mm	30mm	13
F1564L	64mm	38mm	30mm	14
F1578L	78mm	44mm	51mm	15
F1585L	85mm	35mm	40mm	16
F1683L	84mm	52mm	58mm	17

F0415L (pull type)

DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

F0415L - VOLTAGE

Example: F0415L-12V

SOLENOID DATA

Duty cycle / ED (%) ▶	Continuous (100%)	Intermittent (50%)	Intermittent (25%)	Intermittent (10%)
Watts @ 20°C ▶	0.8	1.6	3.2	8
Maximum time in energized state (in seconds) ▶	∞	50	18	3

Part ▼	Resistance (20°C) ± 10% (Ω) ▼	DC Volts (V) ▼			
F0415L-03V	11.2	3	4.2	6	9.5
F0415L-06V	45	6	8.5	12	19
F0415L-12V	180	12	17	24	38
F0415L-24V	720	24	34	48	76

SOLENOID FEATURES AND STANDARD DATA

	STANDARD	CUSTOMIZATION OPTIONS
Type	Pull type DC solenoid	Push type DC solenoid
Cable	Flying wire 230mm	Length, type and connector
Voltage	3 to 24 VDC @ 100% ED	Other voltages upon request
Life time	At least 500.000 single strokes	
Plunger material	Carbon steel 12L14	
Protection class	IP00	
Insulation grade	B	
Operating temperature	-5°C ... +40°C	
Manufacturing quality standards	ISO9001:2008, ISO/TS 16949:2002	
RoHS compliance	Yes	
CE approval	No	
UL approval	No	

ADDITIONAL DATA

Return spring	Yes
Weight	5.4g

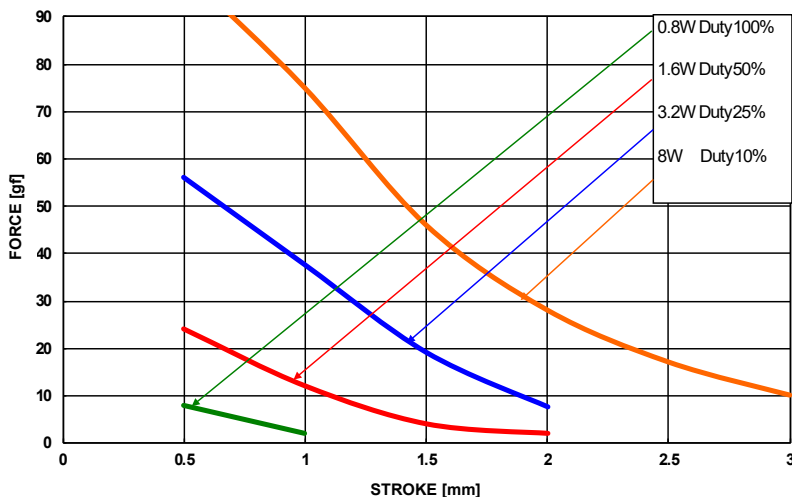
SPRING DATA

Loading force @ 2.1mm compression	3.5g
Loading force @ 0.5mm compression	8.6g

PLUNGER PROFILE

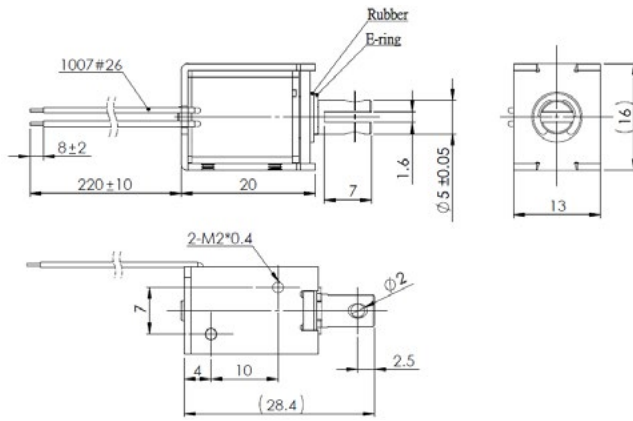


DIAGRAM



F0520L (pull type)

DRAWING (mm)



PHOTO

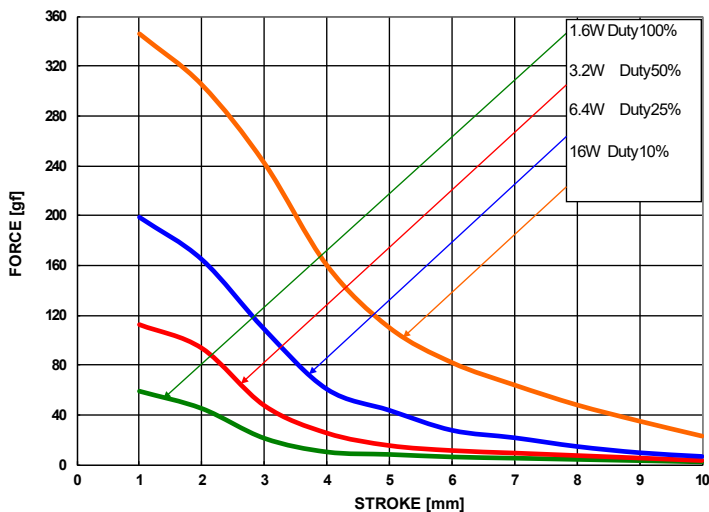


MODEL NO. DESIGNATION

F0520L - VOLTAGE
Example: F0520L-12V

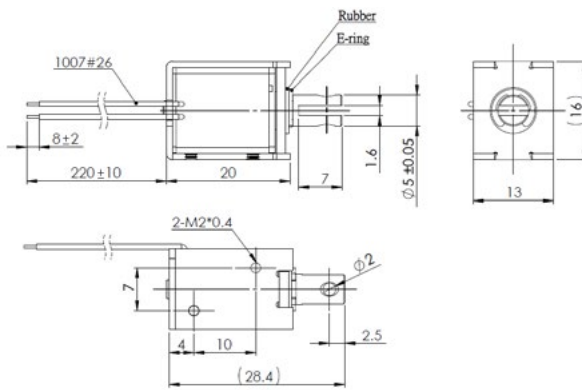
SOLENOID DATA				
Duty cycle / ED (%) ▶	Continuous (100%)	Intermittent (50%)	Intermittent (25%)	Intermittent (10%)
Watts @ 20°C ▶	1.6	3.2	6.4	16
Maximum time in energized state (in seconds) ▶	∞	55	19	3
Part ▼	Resistance (20°C) ± 10% (Ω) ▼	DC Volts (V) ▼		
F0520L-06V	23	6	8.5	12
F0520L-12V	90	12	17	24
F0520L-24V	360	24	34	48

SOLENOID FEATURES AND STANDARD DATA			ADDITIONAL DATA	
	STANDARD	CUSTOMIZATION OPTIONS		
Type	Pull type DC solenoid	Push type DC solenoid	Return spring	Yes
Cable	Flying wire 230mm	Length, type and connector	Weight	18g
Voltage	6 to 24 VDC @ 100% ED	Other voltages upon request		
Life time	At least 500.000 single strokes			
Plunger material	Carbon steel 12L14			
Protection class	IP00			
Insulation grade	B			
Operating temperature	-5°C ... +40°C			
Manufacturing quality standards	ISO9001:2008, ISO/TS 16949:2002			
RoHS compliance	Yes			
CE approval	No			
UL approval	No			
DIAGRAM			SPRING DATA	
			Loading force @ 3mm compression	18g
DIAGRAM			PLUNGER PROFILE	



F0530L (pull type)

DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

F0530L - VOLTAGE

Example: F0530L-12V

SOLENOID DATA

Duty cycle / ED (%) ▶	Continuous (100%)	Intermittent (50%)	Intermittent (25%)	Intermittent (10%)
Watts @ 20°C ▶	1.7	3.4	6.8	17
Maximum time in energized state (in seconds) ▶	∞	50	18	2

Part ▼	Resistance (20°C) ± 10% (Ω) ▼	DC Volts (V) ▼			
F0530L-06V	21.2	6	8.5	12	19
F0530L-12V	84.7	12	17	24	38
F0530L-24V	339	24	34	48	76

SOLENOID FEATURES AND STANDARD DATA

	STANDARD	CUSTOMIZATION OPTIONS
Type	Pull type DC solenoid	Push type DC solenoid
Cable	Flying wire 230mm	Length, type and connector
Voltage	6 to 24 VDC @ 100% ED	Other voltages upon request
Life time	At least 500.000 single strokes	
Plunger material	Carbon steel 12L14	
Protection class	IP00	
Insulation grade	B	
Operating temperature	-5°C ... +40°C	
Manufacturing quality standards	ISO9001:2008, ISO/TS 16949:2002	
RoHS compliance	Yes	
CE approval	No	
UL approval	No	

ADDITIONAL DATA

Return spring	Yes
Weight	23g

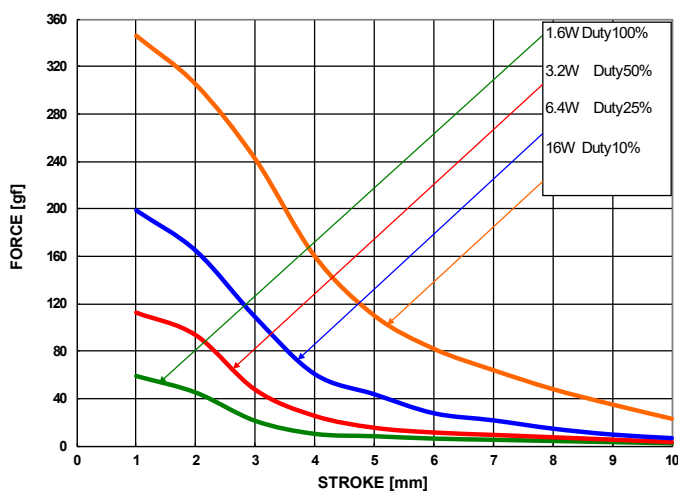
SPRING DATA

Loading force @ 3mm compression	18g
---------------------------------	-----

PLUNGER PROFILE

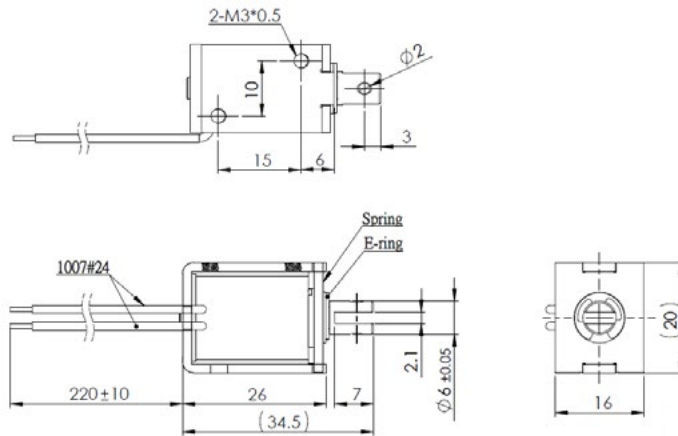


DIAGRAM



F0626L (pull type)

DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

F0626L - VOLTAGE
Example: F0626L-12V

SOLENOID DATA

Duty cycle / ED (%) ▶	Continuous (100%)	Intermittent (50%)	Intermittent (25%)	Intermittent (10%)	
Watts @ 20°C ▶	2.1	4.2	8.4	21	
Maximum time in energized state (in seconds) ▶	∞	55	19	3	
Part ▼	Resistance (20°C) ± 10% (Ω) ▼	DC Volts (V) ▼			
F0626L-06V	17.1	6	8.5	12	19
F0626L-12V	69	12	17	24	38
F0626L-24V	339	24	34	48	76

SOLENOID FEATURES AND STANDARD DATA

	STANDARD	CUSTOMIZATION OPTIONS
Type	Pull type DC solenoid	Push type DC solenoid
Cable	Flying wire 230mm	Length, type and connector
Voltage	6 to 24 VDC @ 100% ED	Other voltages upon request
Life time	At least 500.000 single strokes	
Plunger material	Carbon steel 12L14	
Protection class	IP00	
Insulation grade	B	
Operating temperature	-5°C ... +40°C	
Manufacturing quality standards	ISO9001:2008, ISO/TS 16949:2002	
RoHS compliance	Yes	
CE approval	No	
UL approval	No	

ADDITIONAL DATA

Return spring	Yes
Weight	43g

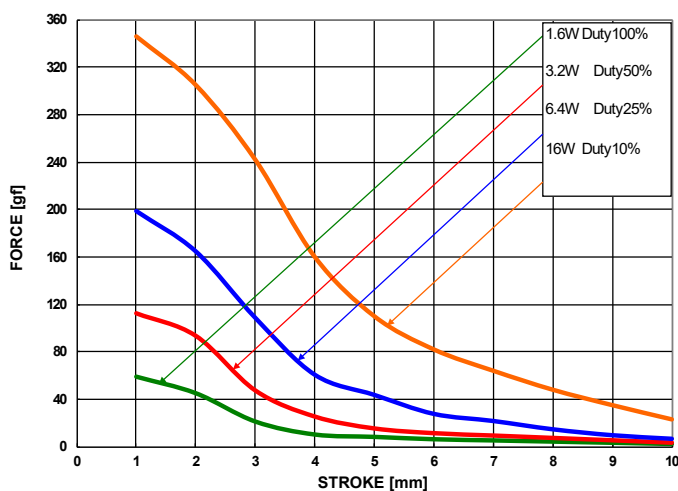
SPRING DATA

Loading force @ 1mm compression	30g
---------------------------------	-----

PLUNGER PROFILE

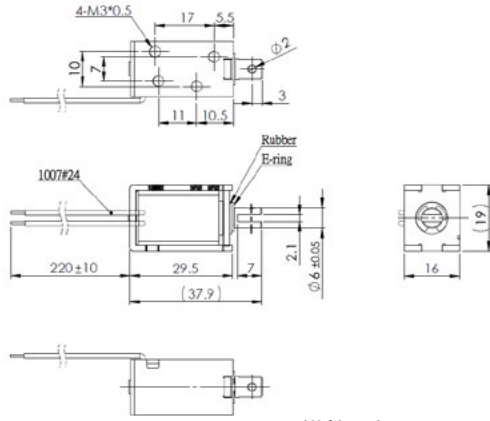


DIAGRAM



F0630L (pull type)

DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

F0630L - VOLTAGE

Example: F0630L-12V

SOLENOID DATA

Duty cycle / ED (%) ▶	Continuous (100%)	Intermittent (50%)	Intermittent (25%)	Intermittent (10%)
Watts @ 20°C ▶	2.4	4.8	9.6	24
Maximum time in energized state (in seconds) ▶	∞	55	19	3

Part ▼	Resistance (20°C) ± 10% (Ω) ▼		DC Volts (V) ▼		
	F0630L-06V	15	6	8.5	12
F0630L-12V	60	12	17	24	38
F0630L-24V	240	24	34	48	76

SOLENOID FEATURES AND STANDARD DATA

	STANDARD	CUSTOMIZATION OPTIONS
Type	Pull type DC solenoid	Push type DC solenoid
Cable	Flying wire 230mm	Length, type and connector
Voltage	6 to 24 VDC @ 100% ED	Other voltages upon request
Life time	At least 500.000 single strokes	
Plunger material	Carbon steel 12L14	
Protection class	IP00	
Insulation grade	B	
Operating temperature	-5°C ... +40°C	
Manufacturing quality standards	ISO9001:2008, ISO/TS 16949:2002	
RoHS compliance	Yes	
CE approval	No	
UL approval	No	

ADDITIONAL DATA

Return spring	Yes
Weight	42g

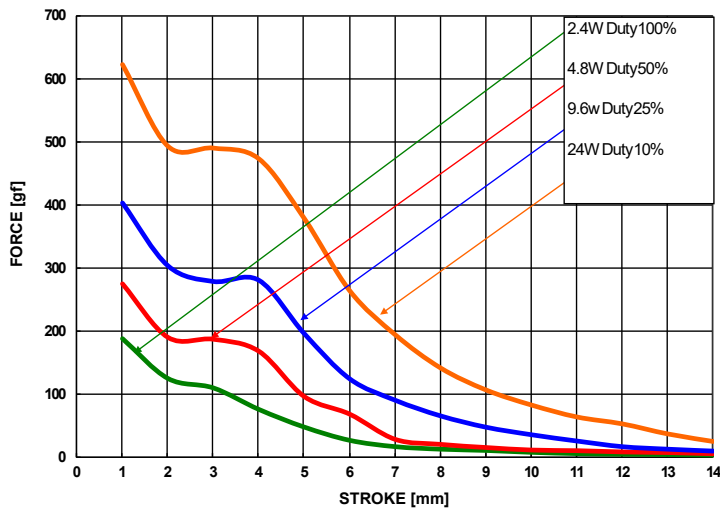
SPRING DATA

Loading force @ 1mm compression	30g
---------------------------------	-----

PLUNGER PROFILE

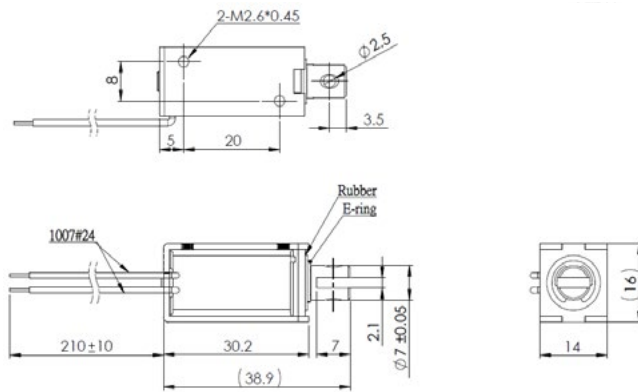


DIAGRAM



F0730L (pull type)

DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

F0730L - VOLTAGE
Example: F0730L-12V

SOLENOID DATA

Duty cycle / ED (%) ▶	Continuous (100%)	Intermittent (50%)	Intermittent (25%)	Intermittent (10%)	
Watts @ 20°C ▶	2.2	4.4	8.8	22	
Maximum time in energized state (in seconds) ▶	∞	55	19	3	
Part ▼	Resistance (20°C) ± 10% (Ω) ▼	DC Volts (V) ▼			
F0730L-06V	16.4	6	8.5	12	19
F0730L-12V	65.5	12	17	24	38
F0730L-24V	262	24	34	48	76

SOLENOID FEATURES AND STANDARD DATA

	STANDARD	CUSTOMIZATION OPTIONS
Type	Pull type DC solenoid	Push type DC solenoid
Cable	Flying wire 230mm	Length, type and connector
Voltage	6 to 24 VDC @ 100% ED	Other voltages upon request
Life time	At least 500.000 single strokes	
Plunger material	Carbon steel 12L14	
Protection class	IP00	
Insulation grade	B	
Operating temperature	-5°C ... +40°C	
Manufacturing quality standards	ISO9001:2008, ISO/TS 16949:2002	
RoHS compliance	Yes	
CE approval	No	
UL approval	No	

ADDITIONAL DATA

Return spring	Yes
Weight	33g

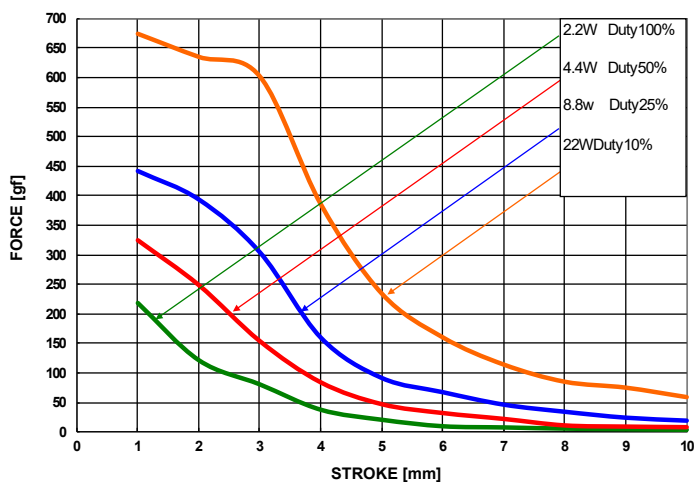
SPRING DATA

Loading force @ 1mm compression	93 ± 5g
---------------------------------	---------

PLUNGER PROFILE

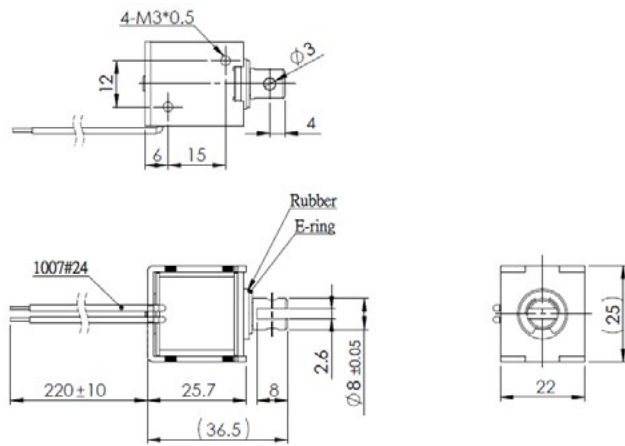


DIAGRAM



F0826L (pull type)

DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

F0826L - VOLTAGE

Example: F0826L-12V

SOLENOID DATA

Duty cycle / ED (%) ▶	Continuous (100%)	Intermittent (50%)	Intermittent (25%)	Intermittent (10%)
Watts @ 20°C ▶	2.8	5.6	11.2	28
Maximum time in energized state (in seconds) ▶	∞	100	36	7
Part ▼	Resistance (20°C) ± 10% (Ω) ▼	DC Volts (V) ▼		
F0826L-06V	12.9	6	8.5	12
F0826L-12V	51.4	12	17	24
F0826L-24V	206	24	34	48

SOLENOID FEATURES AND STANDARD DATA

	STANDARD	CUSTOMIZATION OPTIONS
Type	Pull type DC solenoid	Push type DC solenoid
Cable	Flying wire 230mm	Length, type and connector
Voltage	6 to 24 VDC @ 100% ED	Other voltages upon request
Life time	At least 500.000 single strokes	
Plunger material	Carbon steel 12L14	
Protection class	IP00	
Insulation grade	B	
Operating temperature	-5°C ... +40°C	
Manufacturing quality standards	ISO9001:2008, ISO/TS 16949:2002	
RoHS compliance	Yes	
CE approval	No	
UL approval	No	

ADDITIONAL DATA

Return spring	Yes
Weight	66g

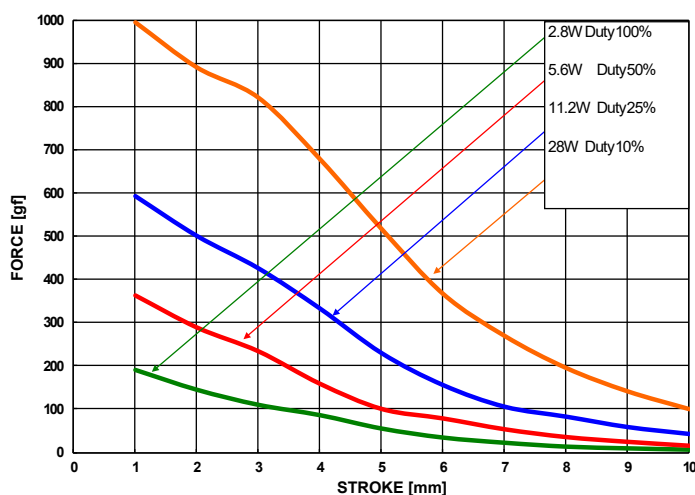
SPRING DATA

Loading force @ 3mm compression	78 ± 5g
---------------------------------	---------

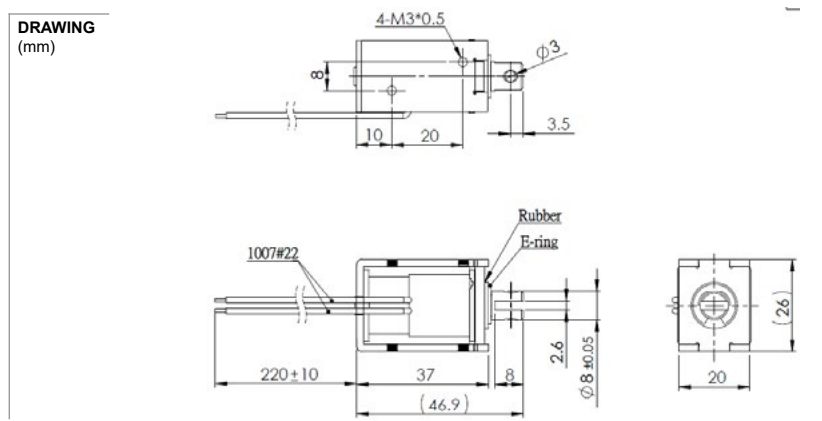
PLUNGER PROFILE



DIAGRAM



F0837L (pull type)



MODEL NO. DESIGNATION

F0837L - VOLTAGE

Example: F0837L-12V

SOLENOID DATA

Duty cycle / ED (%) ▶	Continuous (100%)	Intermittent (50%)	Intermittent (25%)	Intermittent (10%)
Watts @ 20°C ▶	4	8	16	40
Maximum time in energized state (in seconds) ▶	∞	100	36	7

Part ▼	Resistance (20°C) ± 10% (Ω) ▼	DC Volts (V) ▼			
F0837L-06V	9	6	8.5	12	19
F0837L-12V	36	12	17	24	38
F0837L-24V	144	24	34	48	76

SOLENOID FEATURES AND STANDARD DATA

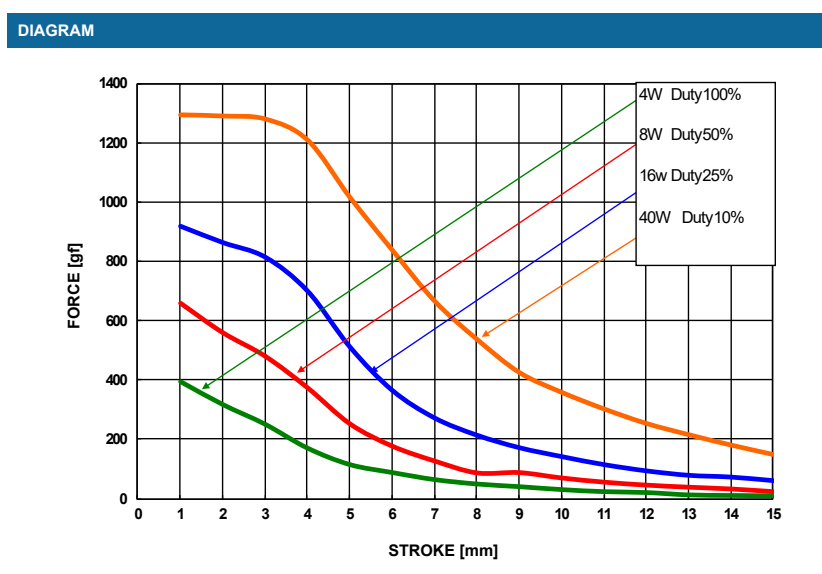
	STANDARD	CUSTOMIZATION OPTIONS
Type	Pull type DC solenoid	Push type DC solenoid
Cable	Flying wire 230mm	Length, type and connector
Voltage	6 to 24 VDC @ 100% ED	Other voltages upon request
Life time	At least 500.000 single strokes	
Plunger material	Carbon steel 12L14	
Protection class	IP00	
Insulation grade	B	
Operating temperature	-5°C ... +40°C	
Manufacturing quality standards	ISO9001:2008, ISO/TS 16949:2002	
RoHS compliance	Yes	
CE approval	No	
UL approval	No	

ADDITIONAL DATA

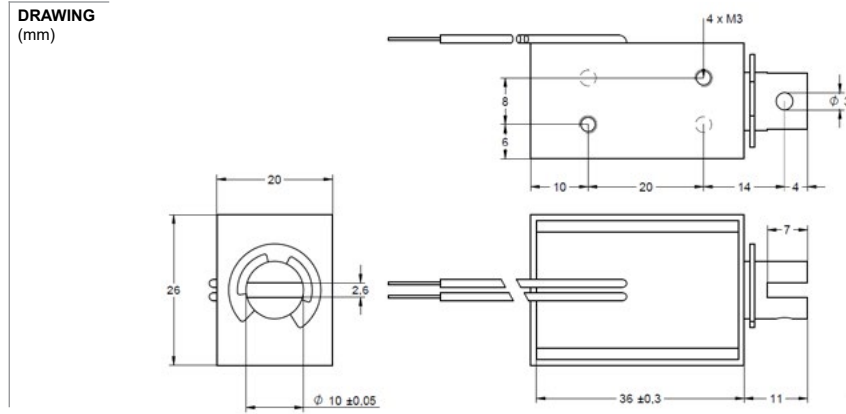
Return spring	Yes
Weight	96g

SPRING DATA

Loading force @ 5mm compression	48 ± 5g
---------------------------------	---------



F1037L (pull type)



MODEL NO. DESIGNATION

F1037L - VOLTAGE

Example: F1037L-12V

SOLENOID DATA

Duty cycle / ED (%) ▶	Continuous (100%)	Intermittent (50%)	Intermittent (25%)	Intermittent (10%)
Watts @ 20°C ▶	4	8	16	40
Maximum time in energized state (in seconds) ▶	∞	100	36	7

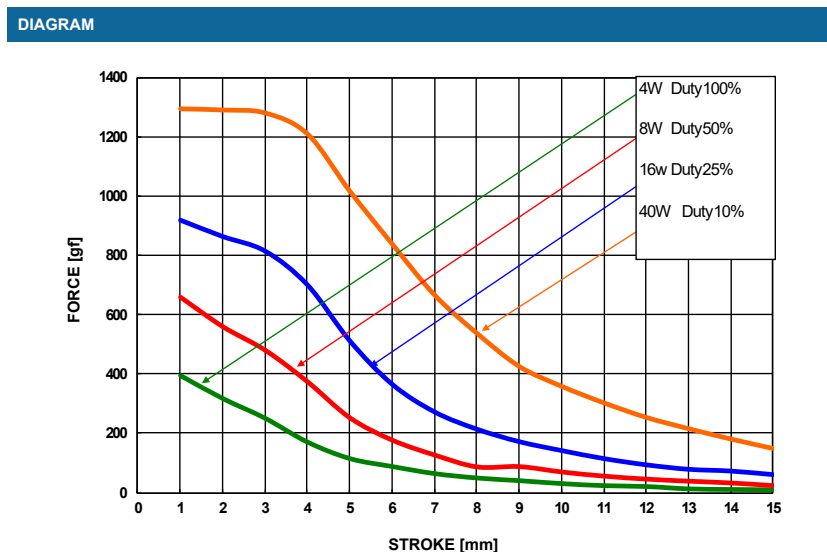
Part ▼	Resistance (20°C) ± 10% (Ω) ▼	DC Volts (V) ▼			
F1037L-06V	9	6	8.5	12	19
F1037L-12V	36	12	17	24	38
F1037L-24V	144	24	34	48	76

SOLENOID FEATURES AND STANDARD DATA

	STANDARD	CUSTOMIZATION OPTIONS
Type	Pull type DC solenoid	Push type DC solenoid
Cable	Flying wire 230mm	Length, type and connector
Voltage	6 to 24 VDC @ 100% ED	Other voltages upon request
Life time	At least 500.000 single strokes	
Plunger material	Carbon steel 12L14	
Protection class	IP00	
Insulation grade	B	
Operating temperature	-5°C ... +40°C	
Manufacturing quality standards	ISO9001:2008, ISO/TS 16949:2002	
RoHS compliance	Yes	
CE approval	No	
UL approval	No	

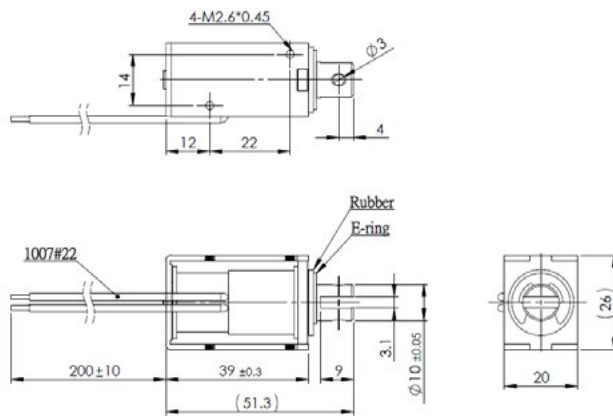
ADDITIONAL DATA

Return spring	Yes
Weight	96g



F1039L (pull type)

DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

F1039L - VOLTAGE
Example: F1039L-12V

SOLENOID DATA

Duty cycle / ED (%) ▶	Continuous (100%)	Intermittent (50%)	Intermittent (25%)	Intermittent (10%)	
Watts @ 20°C ▶	3.8	7.6	15.2	38	
Maximum time in energized state (in seconds) ▶	∞	140	50	9	
Part ▼	Resistance (20°C) ± 10% (Ω) ▼	DC Volts (V) ▼			
F1039L-06V	9.5	6	8.5	12	19
F1039L-12V	38	12	17	24	38
F1039L-24V	152	24	34	48	76

SOLENOID FEATURES AND STANDARD DATA

	STANDARD	CUSTOMIZATION OPTIONS
Type	Pull type DC solenoid	Push type DC solenoid
Cable	Flying wire 230mm	Length, type and connector
Voltage	6 to 24 VDC @ 100% ED	Other voltages upon request
Life time	At least 500.000 single strokes	
Plunger material	Carbon steel 12L14	
Protection class	IP00	
Insulation grade	B	
Operating temperature	-5°C ... +40°C	
Manufacturing quality standards	ISO9001:2008, ISO/TS 16949:2002	
RoHS compliance	Yes	
CE approval	No	
UL approval	No	

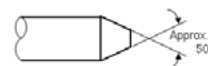
ADDITIONAL DATA

Return spring	Yes
Weight	110g

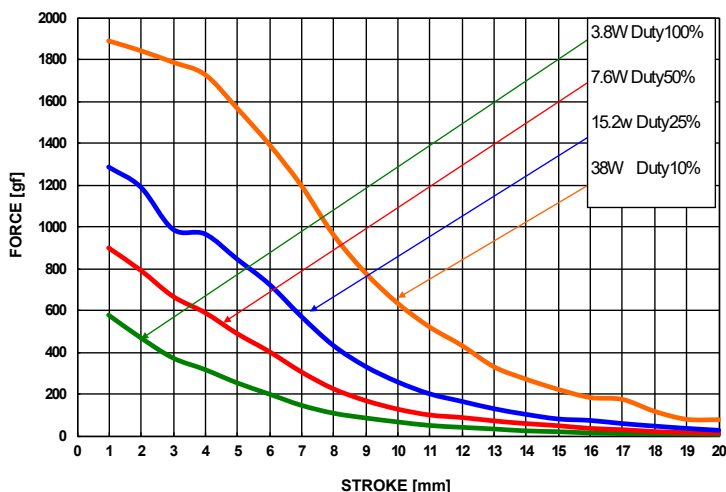
SPRING DATA

Loading force @ 5mm compression	60 ± 5g
---------------------------------	---------

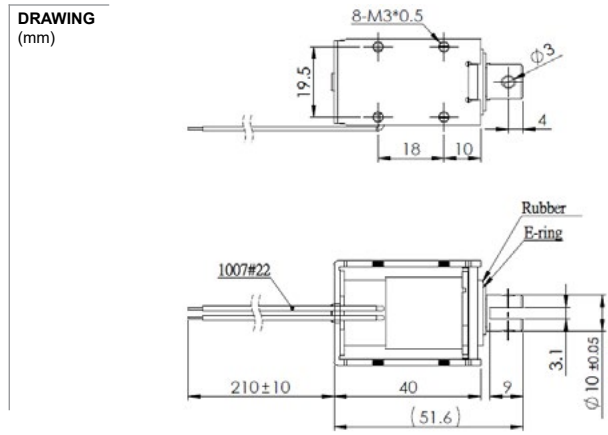
PLUNGER PROFILE



DIAGRAM



F1040L (pull type)



MODEL NO. DESIGNATION

F1040L - VOLTAGE

Example: F1040L-12V

SOLENOID DATA

Duty cycle / ED (%) ▶	Continuous (100%)	Intermittent (50%)	Intermittent (25%)	Intermittent (10%)
Watts @ 20°C ▶	4.2	8.4	16.8	42
Maximum time in energized state (in seconds) ▶	∞	100	36	7

Part ▼	Resistance (20°C) ± 10% (Ω) ▼	DC Volts (V) ▼			
F1040L-06V	9	6	8.5	12	19
F1040L-12V	34	12	17	24	38
F1040L-24V	137	24	34	48	76

SOLENOID FEATURES AND STANDARD DATA

	STANDARD	CUSTOMIZATION OPTIONS
Type	Pull type DC solenoid	Push type DC solenoid
Cable	Flying wire 230mm	Length, type and connector
Voltage	6 to 24 VDC @ 100% ED	Other voltages upon request
Life time	At least 500.000 single strokes	
Plunger material	Carbon steel 12L14	
Protection class	IP00	
Insulation grade	B	
Operating temperature	-5°C ... +40°C	
Manufacturing quality standards	ISO9001:2008, ISO/TS 16949:2002	
RoHS compliance	Yes	
CE approval	No	
UL approval	No	

ADDITIONAL DATA

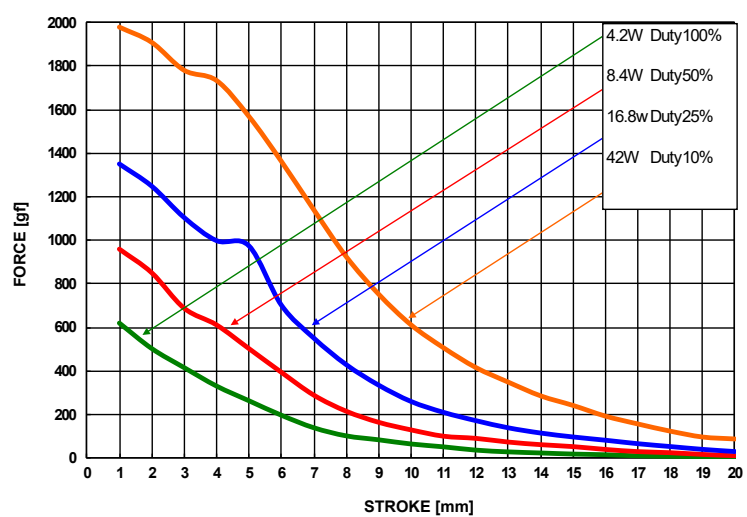
Return spring	Yes
Weight	122g

SPRING DATA

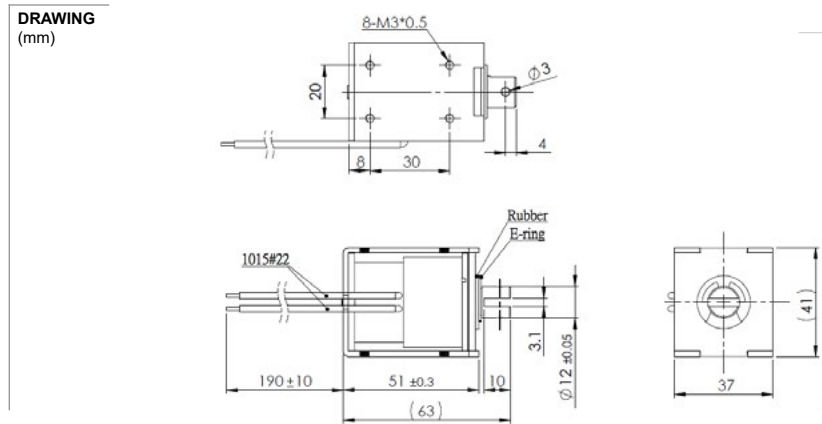
Loading force @ 5mm compression	60 ± 5g
---------------------------------	---------



DIAGRAM



F1250L (pull type)



MODEL NO. DESIGNATION

F1250L - VOLTAGE

Example: F1250L-12V

SOLENOID DATA					
Duty cycle / ED (%) ▶	Continuous (100%)	Intermittent (50%)	Intermittent (25%)	Intermittent (10%)	
Watts @ 20°C ▶	7.5	15	30	75	
Maximum time in energized state (in seconds) ▶	∞	140	50	9	
Part ▼	Resistance (20°C) ± 10% (Ω) ▼	DC Volts (V) ▼			
F1250L-06V	4.8	6	8.5	12	19
F1250L-12V	19.2	12	17	24	38
F1250L-24V	76.8	24	34	48	76

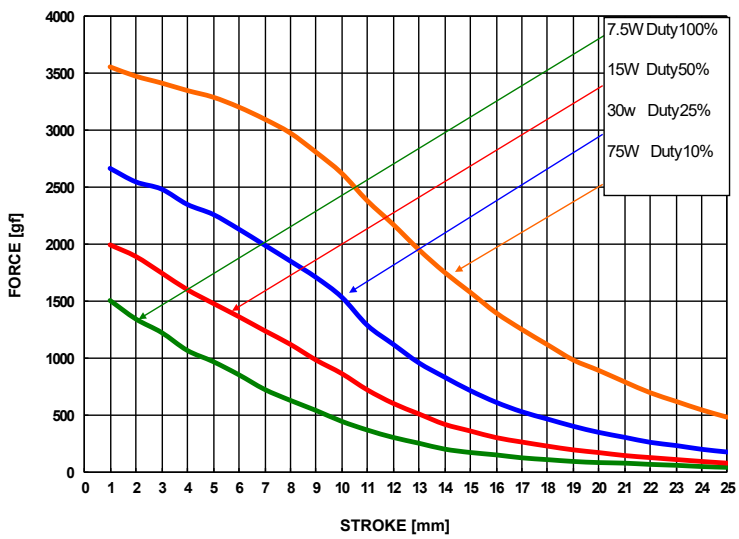
SOLENOID FEATURES AND STANDARD DATA		
	STANDARD	CUSTOMIZATION OPTIONS
Type	Pull type DC solenoid	Push type DC solenoid
Cable	Flying wire 230mm	Length, type and connector
Voltage	6 to 24 VDC @ 100% ED	Other voltages upon request
Life time	At least 500.000 single strokes	
Plunger material	Carbon steel 12L14	
Protection class	IP00	
Insulation grade	B	
Operating temperature	-5°C ... +40°C	
Manufacturing quality standards	ISO9001:2008, ISO/TS 16949:2002	
RoHS compliance	Yes	
CE approval	No	
UL approval	No	

ADDITIONAL DATA	
Return spring	Yes
Weight	315g

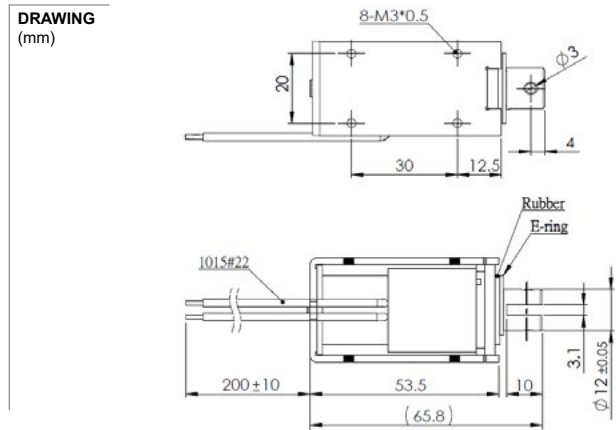
SPRING DATA	
Loading force @ 20mm compression	85 ± 10g



DIAGRAM



F1253L (pull type)



MODEL NO. DESIGNATION

F1253L - VOLTAGE

Example: F1253L-12V

SOLENOID DATA					
Duty cycle / ED (%) ▶	Continuous (100%)	Intermittent (50%)	Intermittent (25%)	Intermittent (10%)	
Watts @ 20°C ▶	6	12	24	60	
Maximum time in energized state (in seconds) ▶	∞	140	50	9	
Part ▼	Resistance (20°C) ± 10% (Ω) ▼	DC Volts (V) ▼			
F1253L-06V	6	6	8.5	12	19
F1253L-12V	24	12	17	24	38
F1253L-24V	96	24	34	48	76

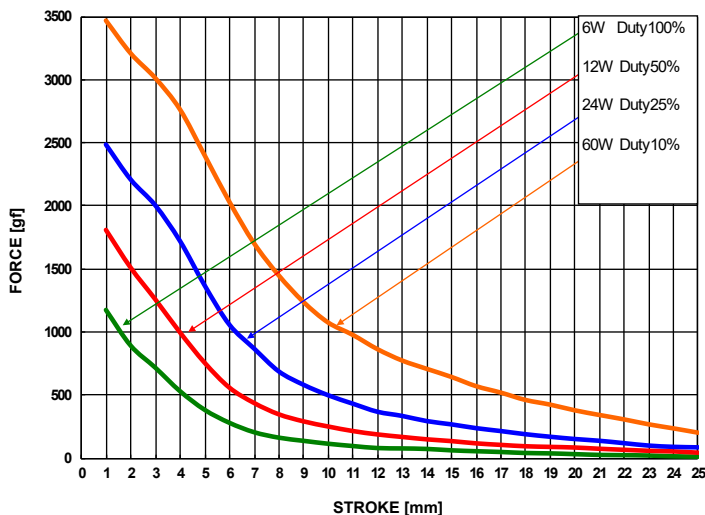
SOLENOID FEATURES AND STANDARD DATA		
	STANDARD	CUSTOMIZATION OPTIONS
Type	Pull type DC solenoid	Push type DC solenoid
Cable	Flying wire 230mm	Length, type and connector
Voltage	6 to 24 VDC @ 100% ED	Other voltages upon request
Life time	At least 500.000 single strokes	
Plunger material	Carbon steel 12L14	
Protection class	IP00	
Insulation grade	B	
Operating temperature	-5°C ... +40°C	
Manufacturing quality standards	ISO9001:2008, ISO/TS 16949:2002	
RoHS compliance	Yes	
CE approval	No	
UL approval	No	

ADDITIONAL DATA	
Return spring	Yes
Weight	205g

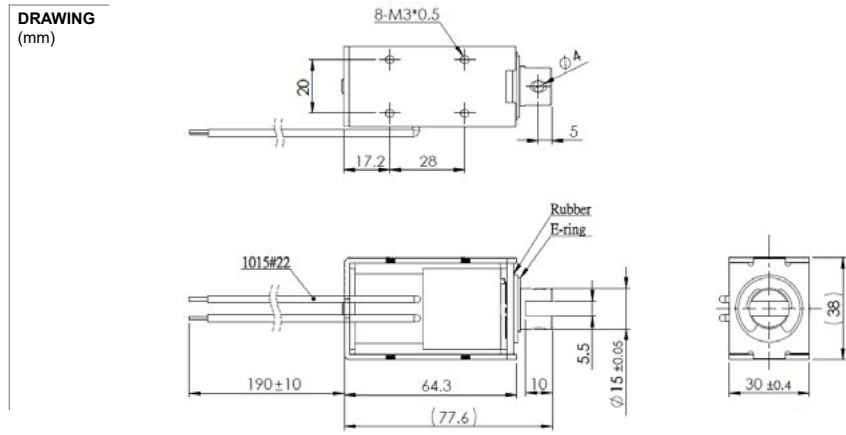
SPRING DATA	
Loading force @ 20mm compression	85 ± 10g



DIAGRAM



F1564L (pull type)



MODEL NO. DESIGNATION

F1564L - VOLTAGE

Example: F1564L-12V

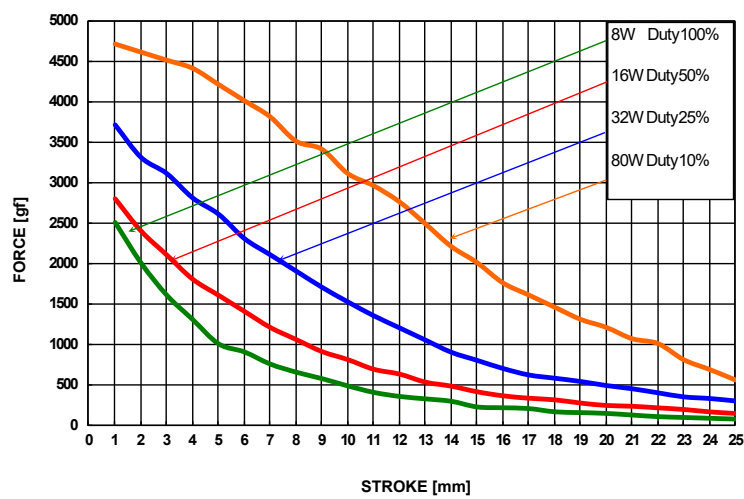
SOLENOID DATA					
Duty cycle / ED (%) ▶		Continuous (100%)	Intermittent (50%)	Intermittent (25%)	Intermittent (10%)
Watts @ 20°C ▶		8	16	32	80
Maximum time in energized state (in seconds) ▶		∞	140	50	9
Part ▼	Resistance (20°C) ± 10% (Ω) ▼	DC Volts (V) ▼			
F1564L-06V	4.5	6	8.5	12	19
F1564L-12V	18	12	17	24	38
F1564L-24V	72	24	34	48	76

SOLENOID FEATURES AND STANDARD DATA		
	STANDARD	CUSTOMIZATION OPTIONS
Type	Pull type DC solenoid	Push type DC solenoid
Cable	Flying wire 230mm	Length, type and connector
Voltage	6 to 24 VDC @ 100% ED	Other voltages upon request
Life time	At least 500.000 single strokes	
Plunger material	Carbon steel 12L14	
Protection class	IP00	
Insulation grade	B	
Operating temperature	-5°C ... +40°C	
Manufacturing quality standards	ISO9001:2008, ISO/TS 16949:2002	
RoHS compliance	Yes	
CE approval	No	
UL approval	No	

ADDITIONAL DATA	
Return spring	Yes
Weight	363g

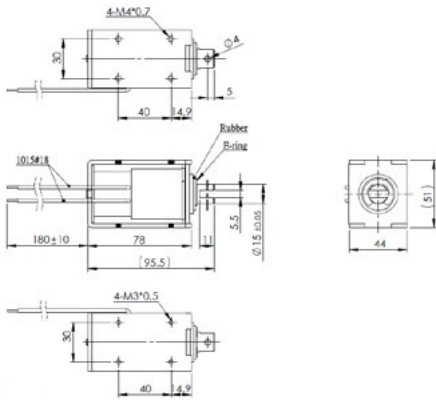


DIAGRAM



F1578L (pull type)

DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

F1578L - VOLTAGE

Example: F1578L-12V

SOLENOID DATA

Duty cycle / ED (%) ▶	Continuous (100%)	Intermittent (50%)	Intermittent (25%)	Intermittent (10%)
Watts @ 20°C ▶	8	16	32	80
Maximum time in energized state (in seconds) ▶	∞	160	80	32

Part ▼	Resistance (20°C) ± 10% (Ω) ▼	DC Volts (V) ▼			
F1578L-06V	4.5	6	8.5	12	19
F1578L-12V	18	12	17	24	38
F1578L-24V	72	24	34	48	76

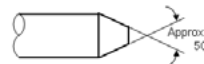
SOLENOID FEATURES AND STANDARD DATA

	STANDARD	CUSTOMIZATION OPTIONS
Type	Pull type DC solenoid	Push type DC solenoid
Cable	Flying wire 230mm	Length, type and connector
Voltage	6 to 24 VDC @ 100% ED	Other voltages upon request
Life time	At least 500.000 single strokes	
Plunger material	Carbon steel 12L14	
Protection class	IP00	
Insulation grade	B	
Operating temperature	-5°C ... +40°C	
Manufacturing quality standards	ISO9001:2008, ISO/TS 16949:2002	
RoHS compliance	Yes	
CE approval	No	
UL approval	No	

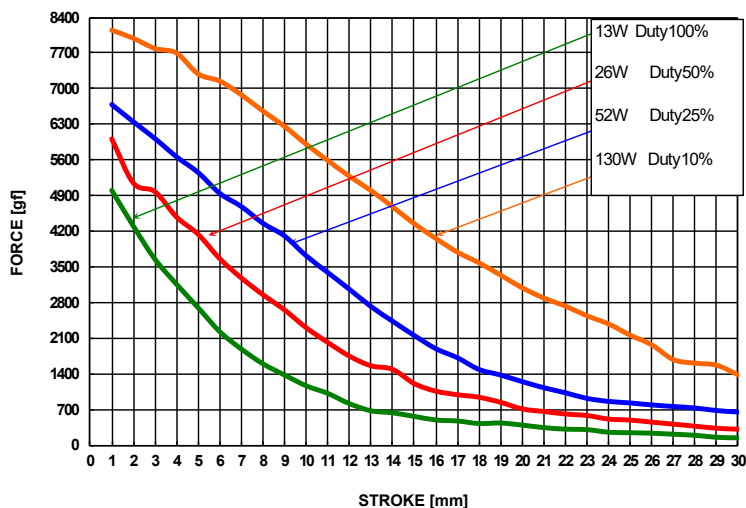
ADDITIONAL DATA

Return spring	Yes
Weight	800g

PLUNGER PROFILE

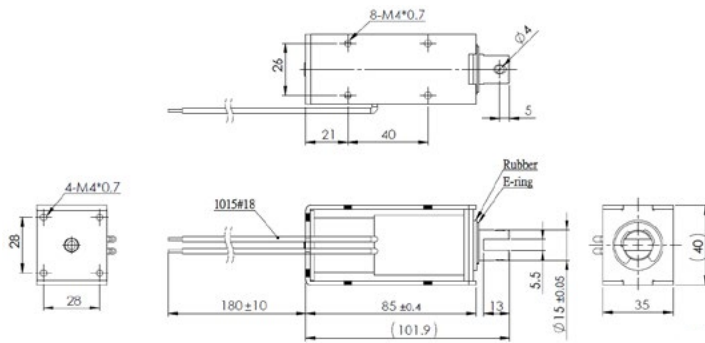


DIAGRAM



F1585L (pull type)

DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

F1585L - VOLTAGE

Example: F1585L-12V

SOLENOID DATA

Duty cycle / ED (%) ▶	Continuous (100%)	Intermittent (50%)	Intermittent (25%)	Intermittent (10%)	
Watts @ 20°C ▶	12.7	25.4	50.8	127	
Maximum time in energized state (in seconds) ▶	∞	160	80	32	
Part ▼	Resistance (20°C) ± 10% (Ω) ▼	DC Volts (V) ▼			
F1585L-06V	2.8	6	8.5	12	19
F1585L-12V	11.3	12	17	24	38
F1585L-24V	45.3	24	34	48	76

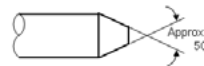
SOLENOID FEATURES AND STANDARD DATA

	STANDARD	CUSTOMIZATION OPTIONS
Type	Pull type DC solenoid	Push type DC solenoid
Cable	Flying wire 230mm	Length, type and connector
Voltage	6 to 24 VDC @ 100% ED	Other voltages upon request
Life time	At least 500.000 single strokes	
Plunger material	Carbon steel 12L14	
Protection class	IP00	
Insulation grade	B	
Operating temperature	-5°C ... +40°C	
Manufacturing quality standards	ISO9001:2008, ISO/TS 16949:2002	
RoHS compliance	Yes	
CE approval	No	
UL approval	No	

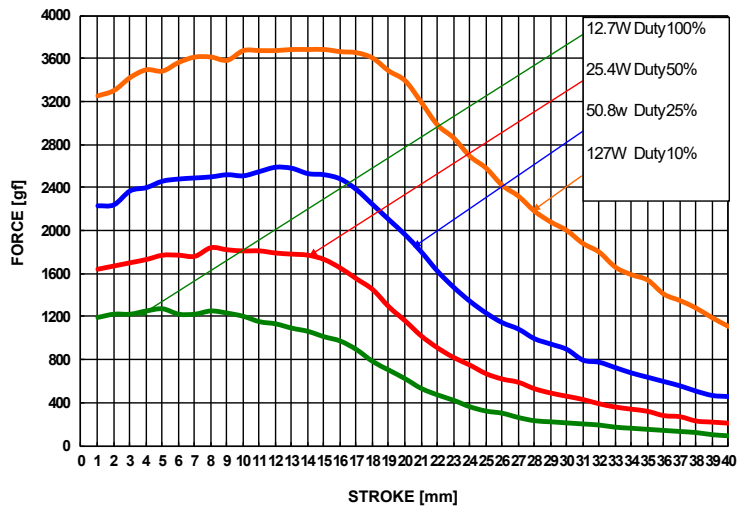
ADDITIONAL DATA

Return spring	Yes
Weight	530g

PLUNGER PROFILE

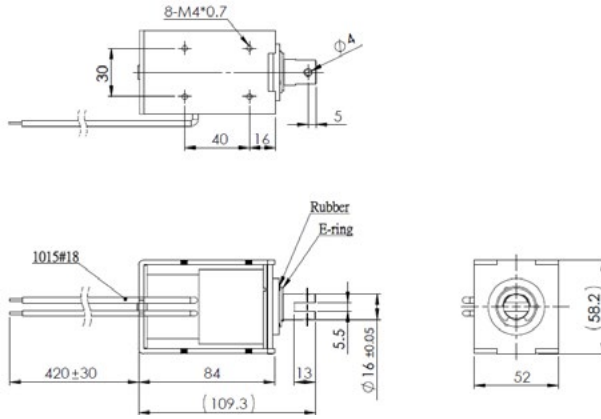


DIAGRAM



F1683L (pull type)

DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

F1683L - VOLTAGE
Example: F1683L-12V

SOLENOID DATA

Duty cycle / ED (%) ▶	Continuous (100%)	Intermittent (50%)	Intermittent (25%)	Intermittent (10%)
Watts @ 20°C ▶	16	32	64	160
Maximum time in energized state (in seconds) ▶	∞	250	120	40

Part ▼	Resistance (20°C) ± 10% (Ω) ▼	DC Volts (V) ▼			
F1683L-06V	2.3	6	8.5	12	19
F1683L-12V	9	12	17	24	38
F1683L-24V	36	24	34	48	76

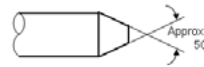
SOLENOID FEATURES AND STANDARD DATA

	STANDARD	CUSTOMIZATION OPTIONS
Type	Pull type DC solenoid	Push type DC solenoid
Cable	Flying wire 230mm	Length, type and connector
Voltage	6 to 24 VDC @ 100% ED	Other voltages upon request
Life time	At least 500.000 single strokes	
Plunger material	Carbon steel 12L14	
Protection class	IP00	
Insulation grade	B	
Operating temperature	-5°C ... +40°C	
Manufacturing quality standards	ISO9001:2008, ISO/TS 16949:2002	
RoHS compliance	Yes	
CE approval	No	
UL approval	No	

ADDITIONAL DATA

Return spring	Yes
Weight	1090g

PLUNGER PROFILE



DIAGRAM

