

D COIL 08 SIZE

Overview



Construction

Magnet wire wound on a molded 30% glass filled bobbin framed in steel and encapsulated with 30% glass filled polyester resin. Coil impregnated with anerobic sealant.

Ratings

Properties

Magnet wire: U.S. class H 180 °C (356 °F) minimum rating

Connector: Deutsch DT04-2P

Weight: 0.12 kg (0.27 lb) note: DS Coil

0.14 kg (0.31 lb) note: DL Coil

0.12 kg (0.27 lb) note: DG Coil

0.12 kg (0.27 lb) note: DR Coil

Electrical Paramaters

Voltage	Resistance	Inductance	Initial current draw	Initial power
10	6.8 Ohm $\pm 3\%$	6.64 mH	1.47 A	14.7 W
12	9.79 Ohm $\pm 3\%$	8.89 mH	1.23 A	14.7 W
20	27.2 Ohm $\pm 6\%$	27.45 mH	0.74 A	14.7 W
24	39.3 Ohm $\pm 5\%$	34.91 mH	0.61 A	14.7 W
36	88.3 Ohm $\pm 5\%$	70.81 mH	0.41 A	14.7 W
48	156.6 Ohm $\pm 8\%$	134.31 mH	0.31 A	14.7 W

Diodes

DIODE TYPE	DIODE TYPE CODE	CIRCUIT DIAGRAM
BI-DIRECTIONAL ZENER DIODE	Z	
UNI-DIRECTIONAL DIODE	D	

Bidirectional Zener Diode Parameters

Maximum clamping voltage: 45.7 V note: 12 Vdc coil

64.8 V note: 24 Vdc coil

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Maximum peak pulse current: 13.2 A note: 12 Vdc coil

9.3 A note: 24 Vdc coil

Reverse standoff voltage: 28.2 V note: 12 Vdc coil

40.2 V note: 24 Vdc coil

Maximum reverse leakage: 5.0 μ A

Breakdown voltage: 31.4 to 34.7 V note: 12 Vdc coil

44.7 to 49.4 V note: 24 Vdc coil

Diode part number: 6110163 note: 12 Vdc coil (ref)

4000063 note: 24 Vdc coil (ref)

Unidirectional Diode Parameters

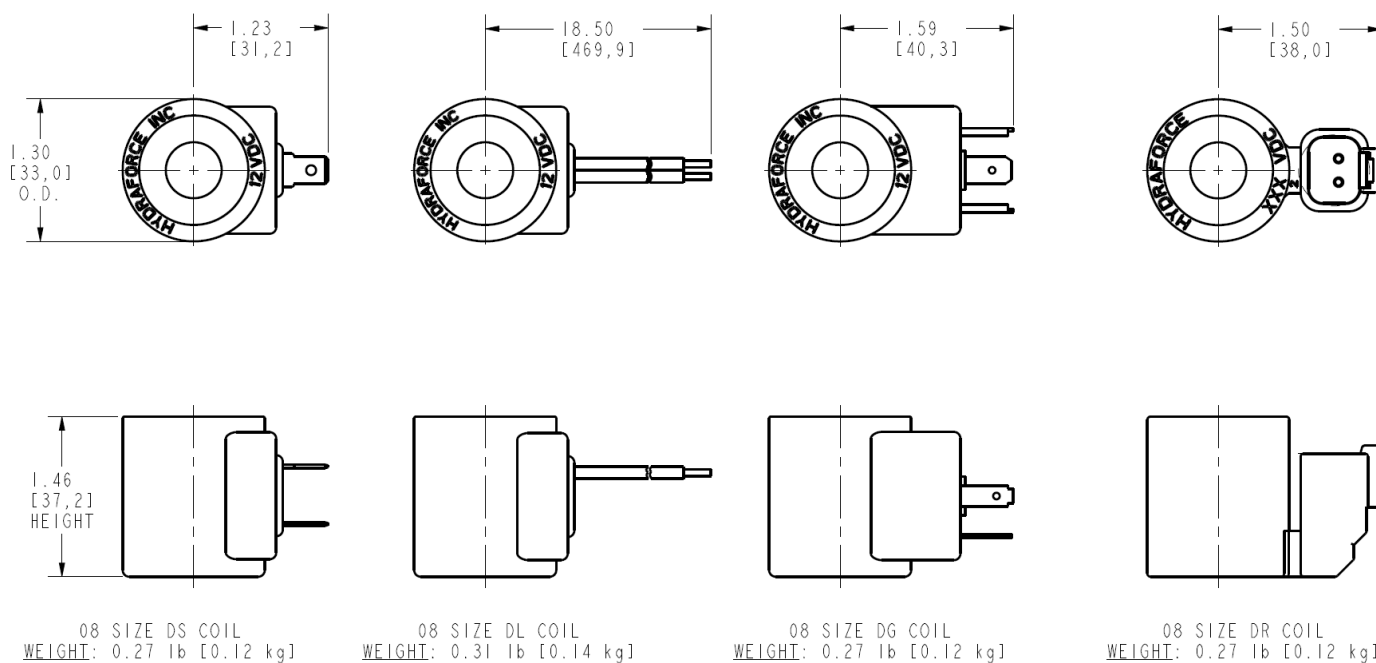
Average forward current: 3.0 A note: Maximum, 12 Vdc coil

1 A note: Maximum, 24 Vdc coil

Maximum recurrent peak reverse voltage: 50 V note: 12 Vdc coil

400 V note: 24 Vdc coil

Dimensions



ALL DIMENSIONS ARE FOR REFERENCE ONLY

Coil Part Numbers

Standard Coils

Old Number	New Number	Code	Vols	Termination	UL	Diode
4301871	R930091009	10 DR/D	10	DEUTSCH DT04-2P	false	true
6307012	R930091130	12 DL	12	DUAL LEADS	false	false
6309737	R930091136	12 DL/D/W	12	MALE 2-PIN WEATHERPACK	false	true
6309412	R930091134	12 DL/W	12	MALE 2-PIN WEATHERPACK	false	false

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Old Number	New Number	Code	Vols	Termination	UL	Diode
4301872	R930091010	12 DR/D	12	DEUTSCH DT04-2P	false	true
4301852	R930091007	12 DR/Z	12	DEUTSCH DT04-2P	false	true
6307024	R935060234	24 DL	24	DUAL LEADS	false	false
6309424	R930091135	24 DL/W	24	MALE 2-PIN WEATHERPACK	false	false
4301874	R930091012	24 DR/D	24	DEUTSCH DT04-2P	false	true
4301854	R935003542	24 DR/Z	24	DEUTSCH DT04-2P	false	true
6306036	R935060219	36 DG	36	DIN 43650	false	false
6301036	R930091125	36 DS	36	DUAL SPADE PER SAE J858a	false	false

Optional Coils

Old Number	New Number	Code	Vols	Termination	UL	Diode
6302010	R935060162	10 DL	10	DUAL LEADS	true	false
6301010	R935060110	10 DS	10	DUAL SPADE PER SAE J858a	true	false
6306012	R935060200	12 DG	12	DIN 43650	true	false
6302012	R935060164	12 DL	12	DUAL LEADS	true	false
4301512	R901539387	12 DR	12	DEUTSCH DT04-2P	true	false
6301012	R978917265	12 DS	12	DUAL SPADE PER SAE J858a	true	false
6306020	R930091129	20 DG	20	DIN 43650	true	false
6301020	R930091124	20 DS	20	DUAL SPADE PER SAE J858a	true	false
6306024	R930093205	24 DG	24	DIN 43650	true	false
6302024	R930091126	24 DL	24	DUAL LEADS	true	false
4301524	R930091004	24 DR	24	DEUTSCH DT04-2P	true	false
6301024	R930095900	24 DS	24	DUAL SPADE PER SAE J858a	true	false

MODEL CODE EXAMPLE:

SV08-XX-0-X-12DX/X

CAVITY AND COIL SIZE

VOLTAGE

CONNECTOR

DIODE TYPE