



Overview

Description

Magnet wire wound on a molded 30% glass filled bobbin and encapsulated with 30% glass filled polyester resin and enclosed in a two-piece zinc-plated metal shell.

Ratings

Properties

Magnet wire	U.S. class H 180 °C (356 °F) minimum rating
Mating connector	DT06-2S-P012 - Note: DEUTSCH DT04-2P DELPHI/PACKARD number 12052641 - Note: METRI-PACK 150-2M DELPHI/PACKARD number 12015792 - Note: WEATHER-PACK

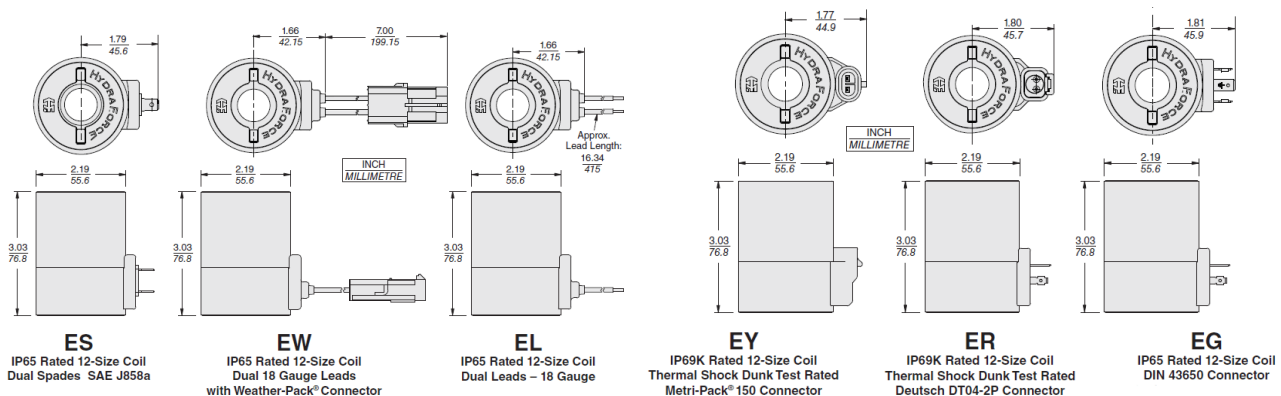
Electrical Parameters

Coil resistance	4.61 ohm $\pm 4\%$ - Note: At 20 °C (68 °F), 12 V coil 18.3 ohm $\pm 5\%$ - Note: At 20 °C (68 °F), 24 V coil
Coil initial current draw	2.60 A - Note: 12 V coil 1.31 A - Note: 24 V coil
Coil initial power consumption	31.23 W - Note: 12 v COIL 31.47 W - Note: 24 v COIL

Bidirectional Zener Diode Parameters

Maximum clamping voltage	45.7 V - Note: 12 Vdc coil 64.8 V - Note: 24 Vdc coil
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 - Note: 12, 24 Vdc coil
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)

Dimensions





Coil Part Numbers

Model code	Part no.	Voltage	Connector	IP rating	Diode
12ES	6851012	12	Dual spade	IP65	
24ES	6851024	24	Dual spade	IP65	
12EL	6852012	12	Dual leads/no connector	IP69K	
12EL/W	6853012	12	WeatherPak on leads	IP69K	
12EG	6956012	12	DIN 43650	IP65	
24EG	6956024	24	DIN 43650	IP65	
12EY	6964012	12	Metri-Pack 150 2M	IP69K	
12ER	4301212	12	Deutsch DT04-2P	IP69K	
24ER	4301224	24	Deutsch DT04-2P	IP69K	
12ER/Z	4305512	12	Deutsch DT04-2P	IP69K	Bidirectional zener diode
24ER/Z	4305524	24	Deutsch DT04-2P	IP69K	Bidirectional zener diode