Coils and Electronics

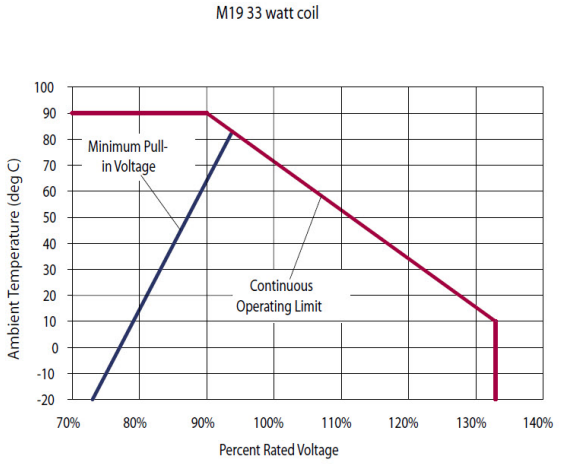
M19

33W Standard Coil

PERFORMANCE DATA

Duty cycle	100% at 115% of rated voltage at 40°C [104° F]
Magnet wire insulation	200°C [392° F]
Ambient temperature range	-20° to 40° C [-4° to 104° F]
Input voltage range	85% to 115% of rated voltage
Temperature rise at 115% of rated voltage:	130° C [266° F] above ambient temperature
Weight	0.37 kg [0.82 lb]

PERFORMANCE CURVES



ENVIRONMENT PROTECTION

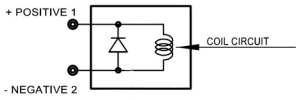
Rating	Connector Type
IP65	DN, FL
IP67	AJ, AJD
IP69K	DE, DED

ELECTRICAL SPECIFICATIONS

Voltage	12 VDC	24 VDC	110 VAC*	220 VAC*
Resistance (Ohms) @ 20 °C [68 °F]	4.4	17	287	1190
Current draw (A) @ 25 °C [68 °F]	2.76	1.38	0.337	0.163
Power (W)	33	33	33	33

*External rectifier required

Diode Information



Built-in, uni-directional polarity diode
(Model # 1N5406)

MODEL CODE

M19 - 12D - 33W - AJ

Coil Voltage

Code	Coil Voltage
12D	12 VDC
24D	24 VDC
110RA	110VAC*
220RA	220VAC*

*DIN only - external rectifier needed

Coil Power

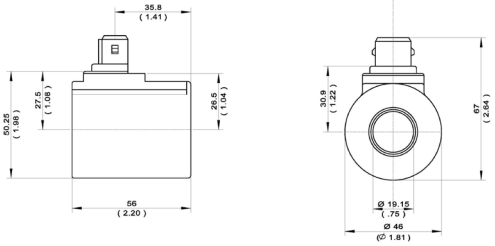
Connector Type

Code	Connector Type
AJ	Amp Junior
AJD	Amp Junior with Diode
DE	Deutsch
DED	Deutsch with Diode
FL	Flying Leads
DN	DIN 43650

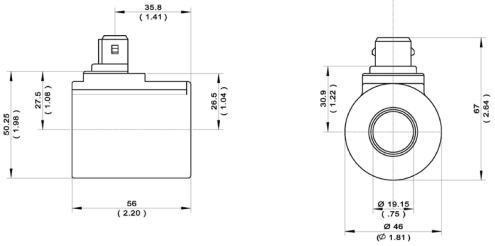
DIMENSIONS

mm [in]

AJ
Amp jr.



AJD
Amp jr. with diode



Coils and Electronics

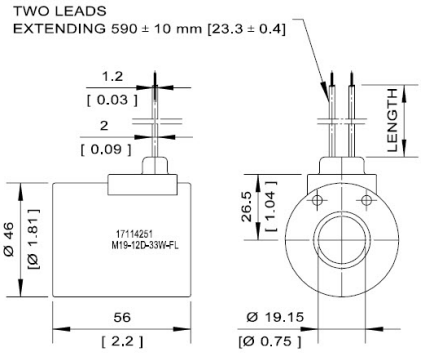
M19

33W Standard Coil

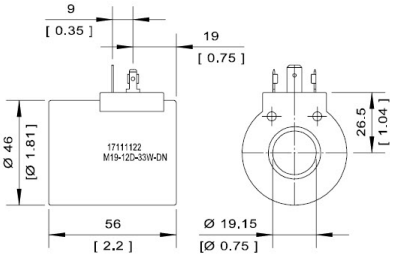
DIMENSIONS

mm [in]

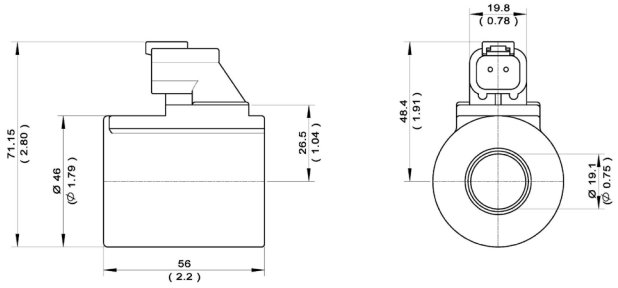
FL
Lead wires



DN
ISO 4400 (DIN 43650)



DE
DEUTSCH



DED
DEUTSCH WITH DIODE

