

■ 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]

■ ENVIRONMENT PROTECTION

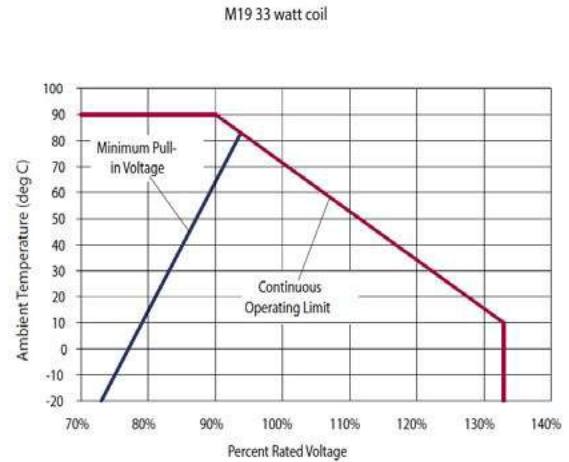
Rating	Connector Type
IP65	DN, FL
IP67	AJ, AJD
IP69K	DE, DED

■ ELECTRICAL SPECIFICATIONS

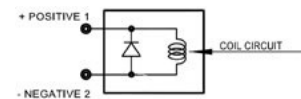
Voltage	12 VDC	24 VDC	110 VAC*	220 VAC*
Resistance (Ohms) @ 20 °C [68 °F]	4.4	17	287	1190
Current draw (A) @ 25 °C [68 °F]	2.76	1.38	0.337	0.163
Power (W)	33	33	33	33

*External rectifier required

■ PERFORMANCE CURVES



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

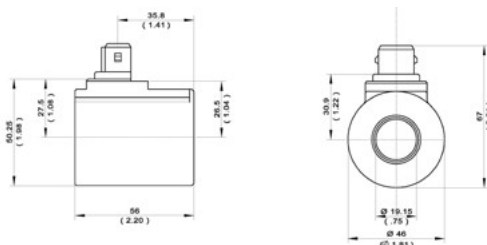
Connector Type

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

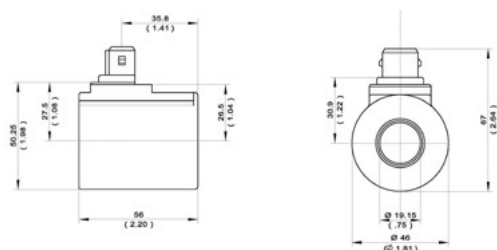
■ DIMENSIONS

mm [in]

AJ
Amp jr.



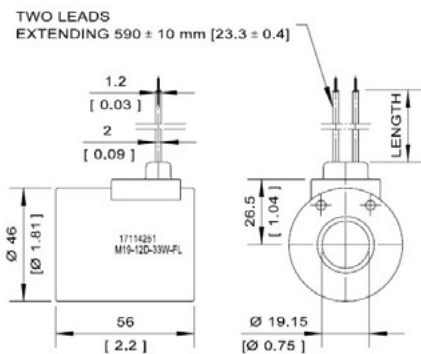
AJD
Amp jr. with diode



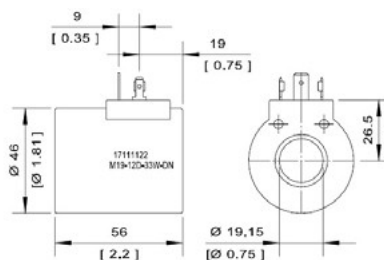
DIMENSIONS

mm [in]

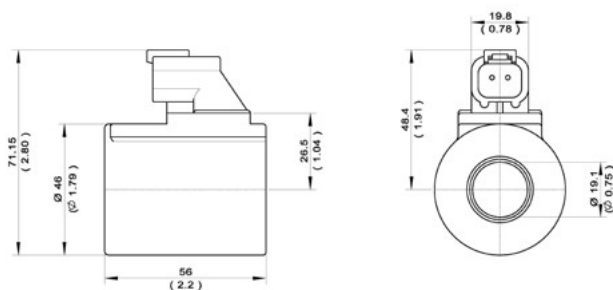
FL
Lead wires



DN
ISO 4400 (DIN 43650)



DE
DEUTSCH



DED
DEUTSCH WITH DIODE

