



Coils

INDEX

APPROVALS

ALPHABETIC SERIES

POWER	5 W - 10 VA	7 W - 11,5 VA 12,5 VA - 13,5 VA	8 W - 14,5 VA	10 W	11 W - 15 VA 16 VA - 17 VA	12 W - 22 VA ED 50%	12 W - 23 VA 25 VA	14 W - 23 VA 26 VA - 27 VA	CE	Ex	UL	UL c	VDE	UL c
Width	22 mm	22 mm	30 mm	22 mm	30 mm	28 mm	36 mm	52 mm						
BDA			CONNECTOR EN 175301-803						X					
BDF					CONNECTOR EN 175301-803				X			(2)		
BDV					CONNECTOR EN 175301-803				X					(1)
BSA			CABLES 100 cm						X					
BVA			CABLES 50 cm						X					
GDH								CONNECTOR EN 175301-803	X					
GDV								CONNECTOR EN 175301-803	X					(1)
ICA						FASTON DIN 46244								
LBA	CONNECTOR EN 175301-803								X					
LBF	CONNECTOR EN 175301-803								X		(3)			
LBV		CONNECTOR EN 175301-803		CONNECTOR EN 175301-803					X		(3)	(2)	(4)	(1)
TNA	See coils list								X	(5)				
UDA							CONNECTOR EN 175301-803		X					
UDV							CONNECTOR EN 175301-803		X			(2)		

ELECTRICAL CONNECTION

- (1) Available also with UL, CSA, VDE approval.
- (2) For some voltages UL, CSA approval available.
- (3) For some voltages UL approval available.

- (4) For some voltages VDE approval available.
- (5) Approval Ex mb II T 4

The "ODE" reserves the right to carry out technical and aesthetic modifications without prior notification.

Coils codes

DIMENSIONS:

- B** Width 30 - tube Ø 13
- G** Width 52 - tube Ø 13
- I** Width 28 - tube Ø 10
- L** Width 22 - tube Ø 10
- T** Width 36 - tube Ø 14,5
- U** Width 36 - tube Ø 13

ELECTRICAL CONNECTIONS:

- B** connector EN 175301-803 whellbase 11
- C** 2 faston DIN 46244
- D** connector EN 175301-803 paragraph 5.3.1
- N** 3 cables cm 300
- S** 2 cables cm 100
- V** 2 cables cm 50

MOLDING MATERIAL:

- A** PA - Black polyamide - class F (155°C)
- F** PPS - Black polyphenylensulphide - class H (180°C)
- H** EP - Black epoxy resin - class H (180°C)
- V** PET - Black Polyethylene - class H (180°C)

B D A 0 8 2 3 0 A S

APPROVALS:

- A** Explosion-proof
- S** Without approval
- U** UL approval
- V** VDE approval
- W** UL, CSA approval
- Y** UL, CSA, VDE approval

FREQUENCY:

- A** 50 Hz ED 100%
- B** 60 Hz ED 100%
- C** D.C. ED 100%
- D** 50/60 Hz ED 100%
- E** 50 Hz ED 50%
- H** D.C. ED 50%

POWER:

- 4X** 7,2 VA
- 0 5** 5 W - 7W
7,7 VA - 9,24 VA
10 VA - 11,5 VA
12,5 VA - 13,5 VA
- 5X** 9,13 VA
- 0 8** 8 W - 10W -
11W - 14,5 VA -
15 VA - 16 VA -
17 VA
- 10** 10,1 W
- 1 2** 12 W - 22 VA
23 VA - 25 VA
- 1 4** 14 W - 23 VA
26 VA - 27 VA

VOLTAGES:

- 0 1 2** 12 V
- 0 2 4** 24 V
- 1 1 0** 110 V
- 1 1 2** 110 -120 V
- 2 2 0** 220 V
- 2 2 3** 220-230 V
- 2 2 4** 220-240 V
- 2 3 0** 230 V
- 3 8 0** 380 V

NOMINAL VOLTAGE TOLERANCES:

- DC + 10% -5%
- AC + 10% -15%



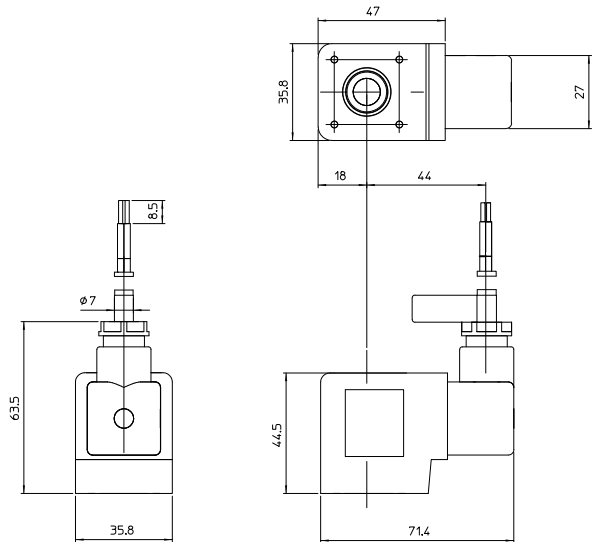
ELECTROMAGNET 36 mm x Ø 14,5 mm FOR POTENTIALLY EXPLOSIVE CONSTRUCTION Ex mb II T 4

TNA4X024D4
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TNA10024C4

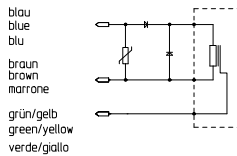
COIL **TNA** Molding material: PPS - Black polyphenylensulphide - class H (180°C)

Winding: In class H

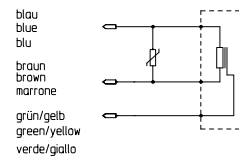
Electrical connections: three-pole cable Ø 1,5 lenght cm 300 PTB 03 ATEX 2086 X
Protection degree IP 65 EN 60529 (DIN 40050)



Spulenschaltung - Gleichstrom
coil wiring - direkt current
avvolgimento bobina - corrente alternata



Spulenschaltung - Gleichstrom
coil wiring - direkt current
avvolgimento bobina - corrente continua



MATERIAL ON STOCK:

Code	Power	Voltage Rating	Frequency	External Fuse
TNA4X024D4	7,2 VA	V 24	50-60 Hz	315 mA
TNA5X110D4	9,13 VA	V 110	50-60 Hz	83 mA
TNA05224D4	7,7-9,24 VA	V 220-240	50-60 Hz	35-39 mA
TNA10024C4	10,1 W	V 24	D.C.	421 mA



(According to Directive 94/9/CE ATEX)
II 2G Ex mb T4
II 2D Ex tD
IEC Ex m II T4
A21 IP65 T130°C

NOMINAL VOLTAGES
TOLERANCES: ±10%

Other voltages and power absorptions available on demand and for quantities.

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The coils must be protected with an external fuse that has characteristics as per table.

AMBIENT TEMPERATURE: - 20°C + 50°C
 FLUID MAX TEMPERATUR: + 80°C

Type	TNA...			TNA...		
Current	AC			DC		
Ambient Temperature Sgile assembly Manifold assembly	-20°C...+ 50°C -20°C...+ 50°C			-20°C...+ 50°C -20°C...+ 50°C		
Max. media temperature	80°C			80°C		
Manifold assembly Min. distance	yes 0 mm			yes 0 mm		
Rated Voltage U_N [V]	Rated current ¹⁾ I_N [mA]	Rated Power P_N [VA]	Fuse ²⁾ [mA]	Rated current ¹⁾ I_N [mA]	Rated Power P_N [W]	Fuse ²⁾ [mA]
24	315	7,2	800	421	10,1	800
110	83	9,1	200	76	8,4	160
115	70	8,1	200	-	-	-
120	72	8,6	200	-	-	-
220	35	7,7	100	43	9,5	100
230	37	8,5	100	-	-	-
240	39	9,2	100	-	-	-

1) Didimensioning current

2) Each solenoid operator has to be protected by a fuse according to the rated current (max. 3x rated current accord. DIN 41571 or IEC 60127-2-1) resp. Motor protection switch short-circuit and fast thermal tripping protection. The fuse can be accommodated in the associated device or must be added separately. The fuse voltage has to be equal or higher than the rated solenoid voltage. The shutdown capability has to be equal or higher than the max. assumed short-circuit current at the installation point (usually 1500A).