E cl. 1.5

Amperometri elettromagnetici per CA scala 90° intercambiabile
AC moving iron ammeters, 90° interchangeable scale

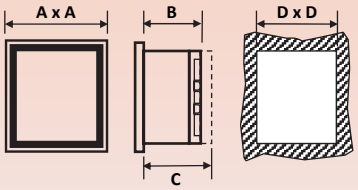
Dati Tecnici

- Precisione	± 1.5 % del valore di fondo scala
- Autoconsumo	1 VA circa (portata 5 A)
- Tensione di riferimento per isolamento	0,6 kV
- Tensione di prova	2 kV (1' a 50 Hz)
- Frequenza di normale funzionamento	45 ÷ 65 Hz
- Sovraccarico permanente	1,2 In
- Sovraccarico Istantaneo	10 In
- Temperatura di funzionamento	-25°C ÷ +50°C
- Temperatura di magazzinaggio	-40°C ÷ +80°C
- Grado di protezione custodia	IP52
- Grado di protezione morsetti	IP00 senza coprimorsetti / IP20 con coprimorsetti
- Costruzione a norme	CEI, IEC, DIN, VDE

Technical Data

- Accuracy	*± 1.5 % of full scale value*
- Self-consumption	*1 VA approx. (range 5 A)*
- Insulation reference voltage	*0.6 kV*
- Test voltage	*2 kV (1' at 50 Hz)*
- Operating frequency	*45 ÷ 65 Hz*
- Continuous overload	*1,2 In*
- Istantaneous overload	*10 In*
- Operating temperature	*-25°C ÷ +50°C*
- Storage temperature	*-40°C ÷ +80°C*
- Protection for housing	*IP52*
- Protection for terminals	*IP00 without terminals cover / IP20 with terminals cover*
- Manufactured according to	*CEI, IEC, DIN, VDE*

Dimensioni di ingombro e foratura pannello (mm)
Dimensions and panel cut-out (mm)



Codice *code*	A x A	B	C	D x D
E48	48x48	54	63	45x45
E72	72x72	54	63	68x68
E96	96x96	54	63	92x92
E144	144x144	54	63	138x138

INSERZIONE DIRETTA / *DIRECT INSERTION*

PORTATA *RANGE*	CODICE / *CODE*			
	48 X 48	72 X 72	96 X 96	144 X144
1 A	E48001AD	E72001AD	E96001AD	E144001AD
5 A	E48005AD	E72005AD	E96005AD	E144005AD
10 A	E48010AD	E72010AD	E96010AD	E144010AD
15 A	E48015AD	E72015AD	E96015AD	E144015AD
20 A	E48020AD	E72020AD	E96020AD	E144020AD
25 A	E48025AD	E72025AD	E96025AD	E144025AD
30 A	E48030AD	E72030AD	E96030AD	E144030AD
40 A	E48040AD	E72040AD	E96040AD	E144040AD
50 A	-	E72050AD	E96050AD	E144050AD
60 A	-	E72060AD	E96060AD	E144060AD
80 A	-	E72080AD	E96080AD	E144080AD
100 A	-	E72100AD	E96100AD	E144100AD

Per fondo scala 1 In, 2 In o 5 In, aggiungere 1, 2 o 5 alla fine del codice in tabella (Es: E48050AD**2**, E96100AD**5**)
*For end scale 1 In, 2 In or 5 In, add 1, 2 or 5 at the end of table code (Ex: E48050AD**2**, E96100AD**5**)*

INSERZIONE SU TA / *INSERTION ON CT*

PORTATA *RANGE*	CODICE / *CODE*			
	48 X 48	72 X 72	96 X 96	144 X144
1 A ÷ 10 kA / 5 A	E48...A5C	E72...A5C	E96...A5C	E144...A5C
1 A ÷ 10 kA / 1 A	E48...A1C	E72...A1C	E96...A1C	E144...A1C

AMPEROMETRI SENZA SCALA / *AMMETERS WITHOUT SCALE*

PORTATA *RANGE*	CODICE / *CODE*			
	48 X 48	72 X 72	96 X 96	144 X144
.../5 A	E48SSC5C	E72SSC5C	E96SSC5C	E144SSC5C
.../1 A	E48SSC1C	E72SSC1C	E96SSC1C	E144SSC1C

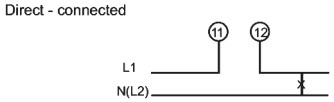
SCALE INTERCAMBIABILI / *INTERCHANGEABLE SCALE*

PORTATA *RANGE*	CODICE / *CODE*			
	48 X 48	72 X 72	96 X 96	144 X144
1 A ÷ 10 kA / 5 A	SE48...A5C	SE72...A5C	SE96...A5C	SE144...A5C
1 A ÷ 10 kA / 1 A	SE48...A1C	SE72...A1C	SE96...A1C	SE144...A1C

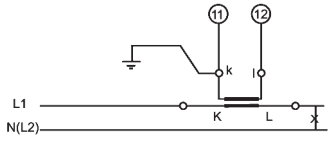
"..."= valore portata (Es: 50/5 A = E72**050**A5C, 2000/1 A = E144**2K0**A1C, 500/5 A = SE96**500**A5C)
*"..."= range value (Ex: 50/5 A = E72**050**A5C, 2000/1 A = E144**2K0**A1C, 500/5 A = SE96**500**A5C)*
Per fondo scala 1 In, 2 In o 5 In, aggiungere 1, 2 o 5 alla fine del codice in tabella (Es: E48600A5C**2**, E964K0A1C**1**)
*For end scale 1 In, 2 In or 5 In, add 1, 2 or 5 to the end of table code (Ex: E48600A5C**2**, E964K0A1C**1**)*

Schemi di inserzione
Wiring diagrams

Direct - connected

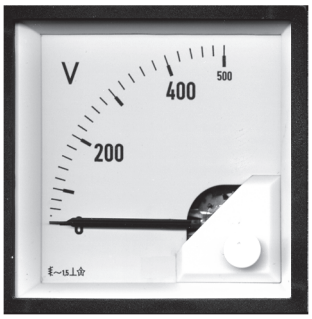


For use on current Transformer



E cl. 1.5

Voltmetri elettromagnetici per CA scala 90° intercambiabile
AC moving iron voltmeter, 90° interchangeable scale



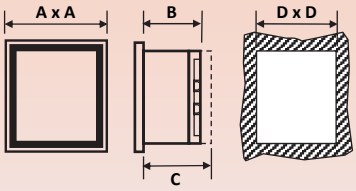
Dati Tecnici

- Precisione	± 1.5 % del valore di fondo scala
- Autoconsumo	1,5 VA circa (portata 100 V)
- Tensione di riferimento per isolamento	0,6 kV
- Tensione di prova	2 kV (1' a 50 Hz)
- Frequenza di normale funzionamento	45 ÷ 65 Hz
- Sovraccarico permanente	1,2 Vn
- Sovraccarico Istantaneo	2 Vn
- Temperatura di funzionamento	-25°C ÷ +50°C
- Temperatura di magazzinaggio	-40°C ÷ +80°C
- Grado di protezione custodia	IP52
- Grado di protezione morsetti	IP00 senza coprimorsetti / IP20 con coprimorsetti
- Costruzione a norme	CEI, IEC, DIN, VDE

Technical Data

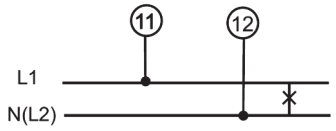
- Accuracy	*± 1.5 % of full scale value*
- Self-consumption	*1,5 VA approx. (range 100 V)*
- Insulation reference voltage	*0.6 kV*
- Test voltage	*2 kV (1' at 50 Hz)*
- Operating frequency	*45 ÷ 65 Hz*
- Continuous overload	*1,2 Vn*
- Istantaneous overload	*2 Vn*
- Operating temperature	*-25°C ÷ +50°C*
- Storage temperature	*-40°C ÷ +80°C*
- Protection for housing	*IP52*
- Protection for terminals	*IP00 without terminals cover / IP20 with terminals cover*
- Manufactured according to	*CEI, IEC, DIN, VDE*

Dimensioni di ingombro e foratura pannello (mm)
Dimensions and panel cut-out (mm)



Codice *code*	A x A	B	C	D x D
E48	48x48	54	63	45x45
E72	72x72	54	63	68x68
E96	96x96	54	63	92x92
E144	144x144	54	63	138x138

Schemi di inserzione
Wiring diagrams



INSERZIONE DIRETTA / *DIRECT INSERTION*

PORTATA *RANGE*	CODICE / *CODE*			
	48 X 48	72 X 72	96 X 96	144 X144
15 V	E48015VD	E72015VD	E96015VD	E144015VD
40 V	E48040VD	E72040VD	E96040VD	E144040VD
50 V	E48050VD	E72050VD	E96050VD	E144050VD
60 V	E48060VD	E72060VD	E96060VD	E144060VD
100 V	E48100VD	E72100VD	E96100VD	E144100VD
150 V	E48150VD	E72150VD	E96150VD	E144150VD
200 V	E48200VD	E72200VD	E96200VD	E144200VD
250 V	E48250VD	E72250VD	E96250VD	E144250VD
300 V	E48300VD	E72300VD	E96300VD	E144300VD
400 V	E48400VD	E72400VD	E96400VD	E144400VD
500 V	E48500VD	E72500VD	E96500VD	E144500VD
600 V	E48600VD	E72600VD	E96600VD	E144600VD

INSERZIONE SU TV / *INSERTION ON VT*

PORTATA (scala) *RANGE (scale)*	CODICE / *CODE*			
	48 X 48	72 X 72	96 X 96	144 X144
220/100 V (250 V)	E48220100V	E72220100V	E96220100V	E144220100V
230/100 V (250 V)	E48230100V	E72230100V	E96230100V	E144230100V
380/100 V (500 V)	E48380100V	E72380100V	E96380100V	E144380100V
400/100 V (500 V)	E48400100V	E72400100V	E96400100V	E144400100V
440/100 V (500 V)	E48440100V	E72440100V	E96440100V	E144440100V
500/100 V (600 V)	E48500100V	E72500100V	E96500100V	E144500100V
600/100 V (800 V)	E48600100V	E72600100V	E96600100V	E144600100V
690/100 V (800 V)	E48690100V	E72690100V	E96690100V	E144690100V
800/100V (1000V)	E48800100V	E72800100V	E96800100V	E144800100V
1000/100V (1200V)	E481K0100V	E721K0100V	E961K0100V	E1441K0100V
A richiesta *on request*	E48.....V	E72.....V	E96.....V	E144.....V

Realizzabili altre portate a richiesta
Other ranges available on request

W cl. 1.5

Amperometri a bobina mobile per CC scala 90° intercambiabile
DC moving coil ammeters, 90° interchangeable scale

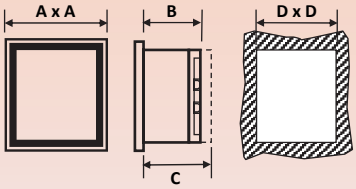
Dati Tecnici

- Precisione	± 1.5 % del valore di fondo scala
- Autoconsumo	150 mV (50 µA); 60 mV(10 mA a 40 A)
- Tensione di riferimento per isolamento	0,6 kV
- Tensione di prova	2 kV (1' a 50 Hz)
- Sovraccarico permanente	1,2 In
- Sovraccarico Istantaneo	10 In
- Temperatura di funzionamento	-25°C ÷ +50°C
- Temperatura di magazzinaggio	-40°C ÷ +80°C
- Grado di protezione custodia	IP52
- Grado di protezione morsetti	IP00 senza coprimorsetti / IP20 con coprimorsetti
- Costruzione a norme	CEI, IEC, DIN, VDE

Technical Data

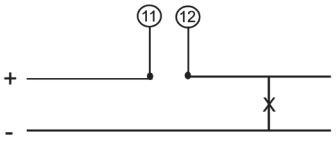
- Accuracy	*± 1.5 % of full scale value*
- Self-consumption	*150 mV (50 µA); 60 mV(10 mA a 40 A)*
- Insulation reference voltage	*0.6 kV*
- Test voltage	*2 kV (1' at 50 Hz)*
- Continuous overload	*1,2 In*
- Istantaneous overload	*10 In*
- Operating temperature	*-25°C ÷ +50°C*
- Storage temperature	*-40°C ÷ +80°C*
- Protection for housing	*IP52*
- Protection for terminals	*IP00 without terminals cover / IP20 with terminals cover*
- Manufactured according to	*CEI, IEC, DIN, VDE*

Dimensioni di ingombro e foratura pannello (mm)
Dimensions and panel cut-out (mm)



Codice *code*	A x A	B	C	D x D
W48	48x48	54	63	45x45
W72	72x72	54	63	68x68
W96	96x96	54	63	92x92
W144	144x144	54	63	138x138

Schemi di inserzione
Wiring diagrams

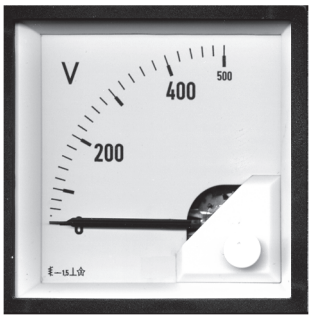


PORTATA *RANGE*	CODICE / *CODE*			
	48 X 48	72 X 72	96 X 96	144 X144
15 µA	W48015UA	W72015UA	W96015UA	W144015UA
25 µA	W48025UA	W72025UA	W96025UA	W144025UA
50 µA	W48050UA	W72050UA	W96050UA	W144050UA
100 µA	W48100UA	W72100UA	W96100UA	W144100UA
150 µA	W48150UA	W72150UA	W96150UA	W144150UA
250 µA	W48250UA	W72250UA	W96250UA	W144250UA
400 µA	W48400UA	W72400UA	W96400UA	W144400UA
600 µA	W48600UA	W72600UA	W96600UA	W144600UA
1 mA	W48001MA	W72001MA	W96001MA	W144001MA
5 mA	W48005MA	W72005MA	W96005MA	W144005MA
10 mA	W48010MA	W72010MA	W96010MA	W144010MA
20 mA	W48020MA	W72020MA	W96020MA	W144020MA
4-20 mA	W48420MA	W72420MA	W96420MA	W144420MA
100 mA	W48100MA	W72100MA	W96100MA	W144100MA
150 mA	W48150MA	W72150MA	W96150MA	W144150MA
250 mA	W48250MA	W72250MA	W96250MA	W144250MA
600 mA	W48600MA	W72600MA	W96600MA	W144600MA
1 A	W48001AD	W72001AD	W96001AD	W144001AD
1,5 A	W48105AD	W72105AD	W96105AD	W144105AD
2,5 A	W48205AD	W72205AD	W96205AD	W144205AD
4 A	W48004AD	W72004AD	W96004AD	W144004AD
5 A	W48005AD	W72005AD	W96005AD	W144005AD
6 A	W48006AD	W72006AD	W96006AD	W144006AD
10 A	W48010AD	W72010AD	W96010AD	W144010AD
15 A	W48015AD	W72015AD	W96015AD	W144015AD
20 A	W48020AD	W72020AD	W96020AD	W144020AD
25 A	W48025AD	W72025AD	W96025AD	W144025AD
30 A	W48030AD	W72030AD	W96030AD	W144030AD
40 A	W48040AD	W72040AD	W96040AD	W144040AD
50 A	W48050AD	W72050AD	W96050AD	W144050AD
60 A	W48060AD	W72060AD	W96060AD	W144060AD
80 A	-	W72080AD	W96080AD	W144080AD
100 A	-	W72100AD	W96100AD	W144100AD
1 A ÷ 15 kA / 60 mV	W48...A60MV	W72...A60MV	W96...A60MV	W144...A60MV
±(1 A÷15 kA) / ±60 mV	W48...A60MVB	W72...A60MVB	W96...A60MVB	W144...A60MVB
1 A ÷ 15 kA / 100 mV	W48...A100MV	W72...A100MV	W96...A100MV	W144...A100MV
1 A ÷ 15 kA / 150 mV	W48...A150MV	W72...A150MV	W96...A150MV	W144...A150MV

"..."= valore portata (Es: 10 A/60 mV= W48**010**A60MV, 2000 A/100 mV= W96**1K0**A100MV, ±500 A/±60 mV = W72**500**A60MVB)
*"..."= range value (Ex: 10 A/60 mV= W48**010**A60MV, 2000 A/100 mV= W96**1K0**A100MV, ±500 A/±60 mV = W72**500**A60MVB)*
Realizzabili altre portate a richiesta
Other ranges available on request

W cl. 1.5

Voltmetri a bobina mobile per CC scala 90° intercambiabile
DC moving coil voltmeters, 90° interchangeable scale



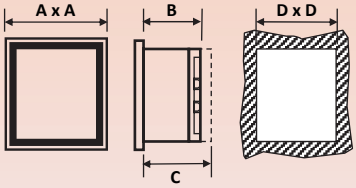
Dati Tecnici

- Precisione	± 1.5 % del valore di fondo scala
- Autoconsumo	1 mA (1000 Ω / V) circa
- Tensione di riferimento per isolamento	0,6 kV
- Tensione di prova	2 kV (1' a 50 Hz)
- Sovraccarico permanente	1,2 Vn
- Sovraccarico Istantaneo	2 Vn
- Temperatura di funzionamento	-25°C ÷ +50°C
- Temperatura di magazzinaggio	-40°C ÷ +80°C
- Grado di protezione custodia	IP52
- Grado di protezione morsetti	IP00 senza coprimorsetti / IP20 con coprimorsetti
- Costruzione a norme	CEI, IEC, DIN, VDE

Technical Data

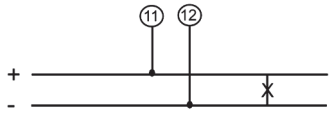
- Accuracy	*± 1.5 % of full scale value*
- Self-consumption	*1 mA (1000 Ω / V) circa*
- Insulation reference voltage	*0.6 kV*
- Test voltage	*2 kV (1' at 50 Hz)*
- Continuous overload	*1,2 Vn*
- Istantaneous overload	*2 Vn*
- Operating temperature	*-25°C ÷ +50°C*
- Storage temperature	*-40°C ÷ +80°C*
- Protection for housing	*IP52*
- Protection for terminals	*IP00 without terminals cover / IP20 with terminals cover*
- Manufactured according to	*CEI, IEC, DIN, VDE*

Dimensioni di ingombro e foratura pannello (mm)
Dimensions and panel cut-out (mm)



Codice *code*	A x A	B	C	D x D
W48	48x48	54	63	45x45
W72	72x72	54	63	68x68
W96	96x96	54	63	92x92
W144	144x144	54	63	138x138

Schemi di inserzione
Wiring diagrams



INSERZIONE DIRETTA / ***DIRECT INSERTION***

PORTATA *RANGE*	CODICE / *CODE*			
	48 X 48	72 X 72	96 X 96	144 X144
25 mV	W48025MVD	W72025MVD	W96025MVD	W144025MVD
40 mV	W48040MVD	W72040MVD	W96040MVD	W144040MVD
60 mV	W48060MVD	W72060MVD	W96060MVD	W144060MVD
100 mV	W48100MVD	W72100MVD	W96100MVD	W144100MVD
150 mV	W48150MVD	W72150MVD	W96150MVD	W144150MVD
300 mV	W48300MVD	W72300MVD	W96300MVD	W144300MVD
500 mV	W48500MVD	W72500MVD	W96500MVD	W144500MVD
1 V	W48001VD	W72001VD	W96001VD	W144001VD
2,5 V	W48002VD	W72002VD	W96002VD	W144002VD
5 V	W48005VD	W72005VD	W96005VD	W144005VD
10 V	W48010VD	W72010VD	W96010VD	W144010VD
15 V	W48015VD	W72015VD	W96015VD	W144015VD
25 V	W48025VD	W72025VD	W96025VD	W144025VD
40 V	W48040VD	W72040VD	W96040VD	W144040VD
60 V	W48060VD	W72060VD	W96060VD	W144060VD
100 V	W48100VD	W72100VD	W96100VD	W144100VD
150 V	W48150VD	W72150VD	W96150VD	W144150VD
250 V	W48250VD	W72250VD	W96250VD	W144250VD
400 V	W48400VD	W72400VD	W96400VD	W144400VD
500 V	W48500VD	W72500VD	W96500VD	W144500VD
600 V	W48600VD	W72600VD	W96600VD	W144600VD

INSERZIONE SU DIVISORE / ***INSERTION ON VOLTAGE DIVIDER (100 V - 1 mA)***

PORTATA (scala) *RANGE (scale)*	CODICE / *CODE*			
	48 X 48	72 X 72	96 X 96	144 X144
500/100 V (500 V)	W48500100V	W72500100V	W96500100V	W144500100V
700/100 V (700 V)	W48700100V	W72700100V	W96700100V	W144700100V
1000/100 V (1000 V)	W481K0100V	W721K0100V	W961K0100V	W1441K0100V
1500/100 V (1500 V)	W481K5100V	W721K5100V	W961K5100V	W1441K5100V
2000/100 V (2000V)	W482K0100V	W722K0100V	W962K0100V	W1442K0100V
2500/100 V (2500V)	W482K5100V	W722K5100V	W962K5100V	W1442K5100V
3000/100 V (3000 V)	W483K0100V	W723K0100V	W963K0100V	W1443K0100V
4000/100 V (4000V)	W484K0100V	W724K0100V	W964K0100V	W1444K0100V
5000/100 V (5000V)	W485K0100V	W725K0100V	W965K0100V	W1445K0100V
A richiesta *on request*	W48...100V	W72...100V	W96...100V	W144...100V

"..."= valore portata (Es: 800/100 V= W48**800**100V, 1200/100V= W96**1K2**100V)
*"..."= range value (Ex: 800/100V= W48**800**100V, 1200/100V= W96**1K2**100V)*
Realizzabili altre portate a richiesta
Other ranges available on request