

AC analogue ammeters

Indicators and transducers



Compliance with standards

- IEC 60051-1
- IEC 60414
- NF EN 60051-1
- DIN 43780
- NF C 42-010
- VDE 0410
- BS 5448
- BS 89

Function

SOCOMEC **ferromagnetic ammeters** measure the alternating current of any electrical circuit. They are embedded in the front panel of cabinets, enclosures or other equipment.

Characteristics

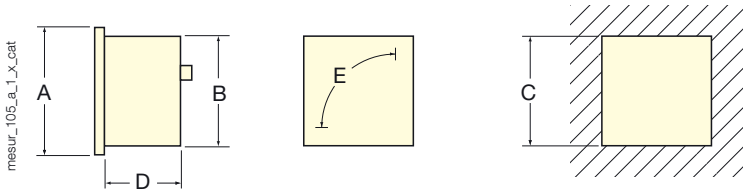
- Pointer deflection: 90°.
- DIN and ROTEX indicators.
- Insulation voltage 660 V.
- Dielectric quality: 2 kV - 50 Hz - 1 mn.
- Consumption: 1.1 VA.
- Operating frequency: 45/65 Hz.
- Motor rating 5 I_n: use on motor circuits up to 8 I_n.
- Connection:
  - Screw mounted,
  - With fast-on lugs for any rating ≤ 15 A.
- Rotary switch: interchangeable, driven (protected face).

Composition of the range

	Case	DIN 48-72-96		ROTEX 72-96	
	Pointer deflection	90°		90°	
	Connection	direct	5 A CT	direct	5 A CT
Normal indication (I_n)	Motor indication (5 I_n)				
Rating	Rating				
0 - 5 A	0 - 5 A - 25 A	•	•	•	•
0 - 10 A	0 - 10 A - 50 A	•	•	•	•
0 - 15 A	0 - 15 A - 75 A	•	•	•	•
0 - 20 A	0 - 20 A - 100 A		•		
0 - 25 A	0 - 25 A - 125 A	•	•	•	•
0 - 40 A	0 - 40 A - 200 A	•	•	•	•
0 - 60 A	0 - 60 A - 300 A	•	•	•	•
0 - 100 A	0 - 100 A - 500 A	•	•		•

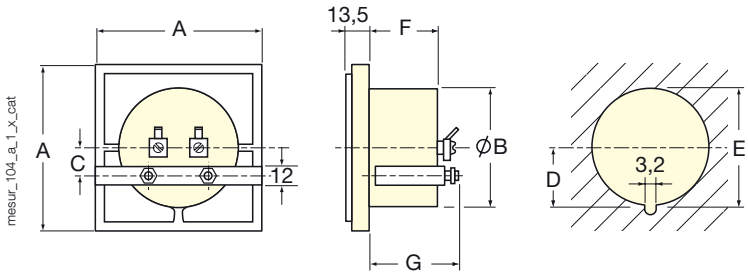
Case

DIN



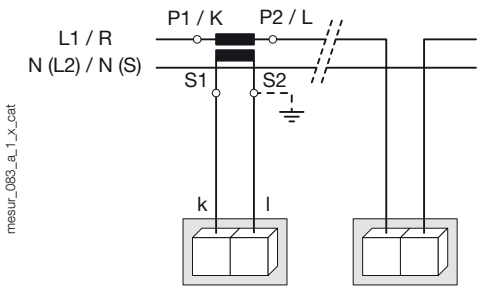
Pointer deflection: 90°				
A	**B**	**C**	**D**	**E**
48 x 48	44.5 x 44.5	$45^{+0.6}$	59	38
72 x 72	66.5 x 66.5	$68^{-0.7}$	58	65
96 x 96	89 x 89	$92^{-0.8}$	58	100

ROTEX



Pointer deflection: 90°						
A	**B**	**C**	**D**	**E**	**F**	**G**
72 x 72	54.5	11	28.5	$56^{\pm0.5}$	34.5	50.8
96 x 96	68	21.6	35.5	$70^{\pm0.5}$	34.5	50.8

Connections



Normal indication (I_n) with 90° pointer deflection

References

Direct connection					
	DIN 48x48 D48A90-A	**DIN 72x72 D72A90-A**		**ROTEX 72x72 R72A90-A**	
Rating	**Reference**	**Reference**		**Reference**	
0 - 5 A	192A **1200**	192A **1300**		192C **1300**	
0 - 10 A	192A **1201**	192A **1301**		192C **1301**	
0 - 15 A	192A **1202**	192A **1302**		192C **1302**	
0 - 25 A	192A **1203**	192A **1303**		192C **1303**	
0 - 40 A	192A **1204**	192A **1304**		192C **1304**	
0 - 60 A	192A **1205**	192A **1305**			
0 - 100 A		192A **1310**			

Connection to 5 A CT					
	DIN 48x48 D48A90-A	**DIN 72x72 D72A90-A**	**DIN 96x96 D96A90-A**	**ROTEX 72x72 R72A90-A**	**ROTEX 96x96 R96A90-A**
Rating	**Reference**	**Reference**	**Reference**	**Reference**	**Reference**
0 - 5 A		192A **3300**			
0 - 10 A	192A **2201**	192A **3301**	192A **4401**	192C **3301**	
0 - 15 A		192A **3302**		192C **3302**	
0 - 20 A	192A **2235**	192A **3335**			
0 - 25 A	192A **2203**	192A **3303**		192C **3303**	
0 - 30 A				192C **3336**	
0 - 40 A	192A **2204**	192A **3304**		192C **3304**	
0 - 50 A	192A **2222**	192A **3322**	192A **4422**	192C **3322**	
0 - 60 A	192A **2205**	192A **3305**		192C **3305**	
0 - 75 A		192A **3323**			
0 - 100 A	192A **2206**	192A **3306**	192A **4406**	192C **3306**	192C **4406**
0 - 125 A	192A **2224**	192A **3324**			
0 - 150 A		192A **3307**	192A **4407**	192C **3307**	192C **4407**
0 - 200 A	192A **2220**	192A **3320**		192C **3320**	
0 - 250 A	192A **2208**	192A **3308**		192C **3308**	192C **4408**
0 - 300 A	192A **2221**	192A **3321**		192C **3321**	
0 - 400 A	192A **2209**	192A **3309**	192A **4409**	192C **3309**	
0 - 500 A	192A **2225**	192A **3325**	192A **4425**		
0 - 600 A	192A **2210**	192A **3310**	192A **4410**	192C **3310**	
0 - 750 A	192A **2230**		192A **4430**	192C **3330**	
0 - 800 A	192A **2226**	192A **3326**		192C **3326**	
0 - 1000 A		192A **3311**			192C **4411**
0 - 1250 A	192A **2231**	192A **3331**			
0 - 1500 A			192A **4412**		
0 - 2000 A		192A **3328**	192A **4428**	192C **3328**	
0 - 2500 A		192A **3313**	192A **4413**		

Accessories

	DIN 48x48 D48A90-A	**DIN 72x72 D72A90-A**	**DIN 96x96 D96A90-A**	**ROTEX 72x72 R72A90-A**	**ROTEX 96x96 R96A90-A**
	Reference	**Reference**	**Reference**	**Reference**	**Reference**
Terminal protection cover		192Z **1000**	192Z **1011**		
2 safety caps	192Z **1016**	192Z **1016**	192Z **1016**	192Z **1016**	192Z **1016**
Mounting bracket and screws	179Z **5000**	179Z **5010**	179Z **5010**	179Z **5020**	179Z **5022**
Gasket	192Z **0007**	192Z **0008**	192Z **0009**	192Z **0011**	192Z **0012**
Replacement glass	179Z **2000**	179Z **2010**	179Z **2020**	179Z **2030**	179Z **2040**

Motor indication (5 I_n) with 90° pointer deflection

References

Direct connection					
	DIN 48x48 D48A90-A	**DIN 72x72 D72A90-A**		**ROTEX 72x72 R72A90-A**	**ROTEX 96x96 R96A90-A**
Rating	**Reference**	**Reference**		**Reference**	**Reference**
0 - 5 A - 25 A	192B **1200**	192B **1300**		192D **1300**	192D **1400**
0 - 10 A - 50 A	192B **1201**	192B **1301**		192D **1301**	192D **1401**
0 - 15 A - 75 A	192B **1202**	192B **1302**		192D **1302**	192D **1402**
0 - 25 A - 125 A	192B **1203**	192B **1303**		192D **1303**	192D **1403**
0 - 40 A - 200 A	192B **1204**	192B **1304**		192D **1304**	
0 - 60 A - 300 A	192B **1205**				

Connection to 5 A CT					
	DIN 48x48 D48A90-A	**DIN 72x72 D72A90-A**	**DIN 96x96 D96A90-A**	**ROTEX 72x72 R72A90-A**	**ROTEX 96x96 R96A90-A**
Rating	**Reference**	**Reference**	**Reference**	**Reference**	**Reference**
0 - 5 A - 25 A	192B **2200**	192B **3300**		192D **3300**	192D **4400**
0 - 10 A - 50 A	192B **2201**	192B **3301**	192B **4401**	192D **3301**	192D **4401**
0 - 15 A - 75 A	192B **2202**	192B **3302**	192B **4402**	192D **3302**	192D **4402**
0 - 20 A - 100 A	192B **2215**	192B **3315**		192D **3315**	
0 - 25 A - 125 A	192B **2203**	192B **3303**		192D **3303**	192D **4403**
0 - 30 A - 150 A	192B **2216**	192B **3316**		192D **3316**	
0 - 40 A - 200 A	192B **2204**	192B **3304**	192B **4404**	192D **3304**	192D **4404**
0 - 50 A - 250 A	192B **2222**	192B **3322**		192D **3322**	192D **4422**
0 - 60 A - 300 A	192B **2205**	192B **3305**		192D **3305**	
0 - 75 A - 375 A	192B **2223**	192B **3323**		192D **3323**	192D **4423**
0 - 100 A - 500 A	192B **2206**	192B **3306**	192B **4406**	192D **3306**	192D **4406**
0 - 125 A - 625 A	192B **2224**	192B **3324**		192D **3324**	
0 - 150 A - 750 A	192B **2207**	192B **3307**	192B **4407**	192D **3307**	192D **4407**
0 - 200 A - 1000 A	192B **2220**	192B **3320**		192D **3320**	192D **4420**
0 - 250 A - 1250 A	192B **2208**	192B **3308**		192D **3308**	
0 - 300 A - 1500 A		192B **3321**		192D **3321**	
0 - 400 A - 2000 A	192B **2209**	192B **3309**	192B **4409**	192D **3309**	
0 - 500 A - 2500 A	192B **2225**		192B **4425**	192D **3325**	
0 - 600 A - 3000 A				192D **3310**	
0 - 750 A - 3750 A		192B **3317**			
0 - 800 A - 4000 A				192D **3326**	

Accessories

	DIN 48x48 D48A90-A	**DIN 72x72 D72A90-A**	**DIN 96x96 D96A90-A**	**ROTEX 72x72 R72A90-A**	**ROTEX 96x96 R96A90-A**
	Reference	**Reference**	**Reference**	**Reference**	**Reference**
Terminal protection cover		192Z **1000**	192Z **1011**		
2 safety caps	192Z **1016**	192Z **1016**	192Z **1016**	192Z **1016**	192Z **1016**
Mounting bracket and screws	179Z **5000**	179Z **5010**	179Z **5010**	179Z **5020**	179Z **5022**
Gasket	192Z **0007**	192Z **0008**	192Z **0009**	192Z **0011**	192Z **0012**
Replacement glass	179Z **2000**	179Z **2010**	179Z **2020**	179Z **2030**	179Z **2040**