

Basic Meters

EMS-11/EMS-11a / EMS-11y / EMS-11s

Features

- High brightness red LED display.
- Programmed values of parameters are protected against unintentional / unauthorised changes.
- Entering program mode is possible by means of short links or buttons.
- Measurement of current parameters (L-N)..
- CT primary & secondary programmable.

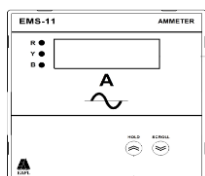


Ordering Information

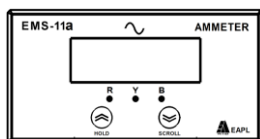
Models	Function	Source Voltage	Display Parameters
EMS-11	Ammeter	240V AC	A(R,Y,B)
EMS-11a			A(R,Y,B)
EMS-11y		85-270V AC/ DC	A(R,Y,B)
EMS-11s		240V AC	A(R)

Note:EMS-11 available in 110V AC also.

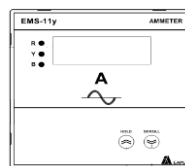
Front View EMS-11



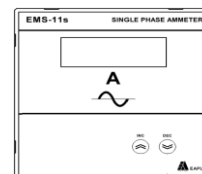
EMS-11a



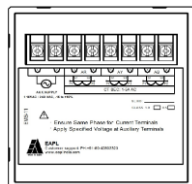
EMS-11y



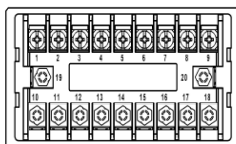
EMS-11s



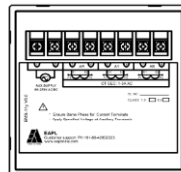
Rear View EMS-11



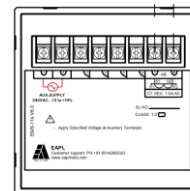
EMS-11a



EMS-11y



EMS-11s




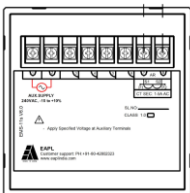
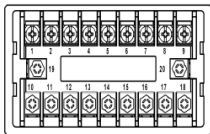

Over-all Dimension

Models	Dimension Details in mm			Cutout Dimension in mm	
	W	H	D	W	H
EMS-11/EMS-11s/EMS-11y	96	96	95.5	92	92
EMS-11a	98	50	79	92	46

■ Specifications

Parameters	Models	EMS-11	EMS-11s	EMS-11a	EMS-11y
Function		Ammeter			
Rated supply Voltage		240V AC(-15% to +10%)			85-270V AC/ DC
Rated Frequency		50 Hz \pm 5%			
Power consumption		AC Approx. 5 VA			AC Approx. 5 VA DC Approx- 2W
Burden		< 0.2 VA per Volts/Amps input			
Input Current		Current inputs (AR,AY,AB) 0.1A to 5A (up to 200 % Ib Max)	Current input 0.1A to 5A (up to 200 % Ib Max)	Current inputs (AR, AY, AB) 0.1A to 5A (up to 200 % Ib Max)	
Current		Class 1 / Class 0.5 for IB only	Class 1 for Ib only	Class 1 / Class 0.5 for IB only	Class 1 for Ib only
Recovery Time		500msec minimum			1sec minimum.
CT Ratio Selectable		Primary: 1A to 6KA max. Secondary:1A to 5A.	-	-	Primary: 1A to 6KA max. Secondary:1A to 5A.
Ambient Temperature		Operation : -10°C to + 55°C(14°F to 131°F) : -25°C to + 80°C(-13°F to 176°F)			
Humidity		Up to 95% RH @ 40°C			
Dielectric Strength		2.5 KV AC, 50Hz for 1 minute (Between current carrying & non-current carrying parts)			
Insulation resistance		>100M ohms @ 500V DC			
Electrical connection		Screw type terminals with self lifting clamps			
Dimension (W x H x D)		96 X 96 X 95.5 mm		98 x 50 x 79 mm	96 X 96 X 95.5 mm
Cut-out Dimension(W x H)		92 x 92mm		92 x 46mm	92 x 92mm

Connection and Terminal Details

	EMS-11	EMS-11s	EMS-11a	EMS-11y
Connection Details				
Terminal Details	For three phase 1, 2 : Auxiliary Supply (240 VAC,-15to+10%) 3,4 : S1, S2 (R Phase) 5,6 : S1, S2 (Y Phase) 7,8 : S1, S2 (B Phase)	1,2: Auxiliary supply (240V AC, -15% to 10%) 7,8: S1, S2 current input	For three phase 1, 2 : Auxiliary Supply (240 VAC,-15% to+10%) 4,5 : S1, S2 (R Phase) 6,7 : S1, S2 (Y Phase) 8,9 : S1, S2 (B Phase)	For three phase 1, 2 : Auxiliary Supply (85-270V AC/ DC) 3,4 : S1, S2 (R Phase) 5,6 : S1, S2 (B Phase) 7,8 : S1, S2 (Y Phase)
	For single phase 1, 2 : Auxiliary Supply (240 VAC,-15% to+10%) 3,4 : S1, S2 (R Phase) shall be used		For single phase 1, 2 : Auxiliary Supply (240 VAC,-15% to+10%) 4,5 : S1, S2 (R Phase) shall be used	For single phase 1, 2 : Auxiliary Supply (85-270V AC/ DC) 3,4 : S1, S2 (R Phase) shall be used