



ISO 9001

# VISHAWKARMA SCIENTIFIC WORKS

AN ISO 9001 : 2015 Certified Company

761, Dina Mandi, Ambala Cantt

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## SHUNT

### DESCRIPTION:

The shunts are designed & manufactured to comply with the requirements of IS1248 / DIN43703 & DIN43780. The shunt provides an accurate d.c. millivolt signal, exactly proportional to the measuring current.

### FEATURES:

- Rating 1A to 15000A
- Riveted and soldered construction
- In-line bus bar mounting
- Very low temperature coefficient
- High overload withstand
- Shock and vibration tested
- Long term stability



### ELECTRICAL SPECIFICATIONS:

- Type : Ranges ↓
  - 1) Insulated mounting : 1, 1.5, 2, 2.5, 3, 4, 5, 6, 10, 15, 20, 25, 30Amp.
  - 2) "I" Section : 30, 40, 50, 60, 75, 80, 100, 120, 150Amp.
  - 3) "L" Section : 200, 250, 300, 400, 500, 600, 750, 800, 1000, 1200, 1500, 2000, 2500, 3000Amp.
  - 4) "T" Section : 4000, 5000, 6000, 7500, 8000, 10000, 12000, 15000Amp.
- Accuracy :  $\pm 0.5\%$
- Continuous Over Load : 120 % of rated current.
- Temp. Coefficient : 0.002% per °C.
- Ambient Temp. : Calibration at 23°C.
- Operating Temp. : -10°C to 55°C
- Storage Temp. : -20°C to 70°C
- Maximum Load : The load should not exceed 0.1 % of the nominal current rating for specified accuracy.
- Millivolt : 50mV, 60mV, 75mV, 100mV, 150mV, 300mV (standard) Other mV drop



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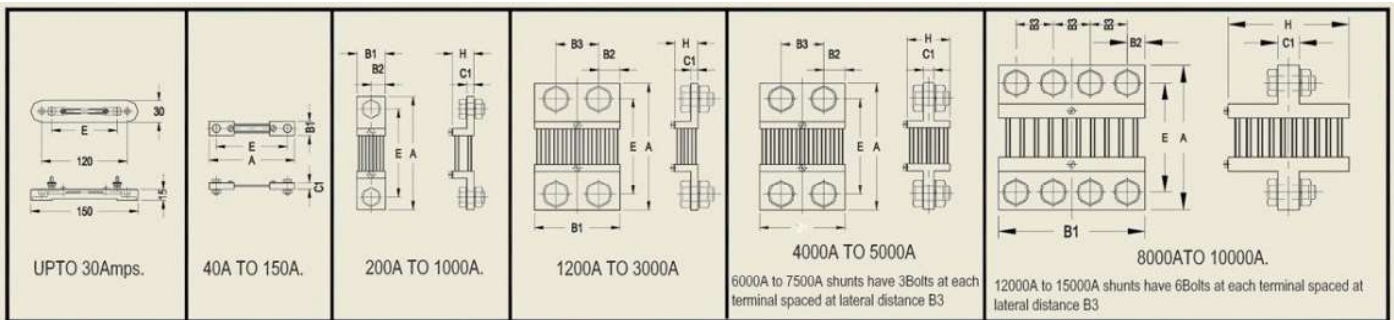
## INSTALLATION :

The best performance is guaranteed if the following points are observed.

- 1) Shunts may be mounted horizontally or vertically. Horizontal mounting gives the best heat dissipation.
- 2) Utilize the full end block surface area.
- 3) Ample ventilation should be provided.
- 4) Busbar should be adequately rated, cleaned & coated with a thin layer of silicon grease between the contact surfaces.
- 5) Bolts and nuts must be carefully tightened.

## ORDERING INFORMATION:

- 1) Current rating
- 2) Millivolt
- 3) Length of the cable



Rated Current Amps.	Dim 'A' Max.					Dim 'B1'	Dim 'B2'	Dim 'B3'	Dim 'C1'	Dim 'E'					Dim 'H'		Current Terminal Dim.	No. of Current Terminals	Minimum length of contacting part with Busbar	
	(mV)									(mV)					(mV)					
	60	75	100	150	300					60	75	100	150	300	60/75	100 ~ 300				
1 ~ 30	90	90	90	90	90	20	—	—	—	8	80	80	80	80	80	8	8	M5 x 12	2 x 1	—
40 ~ 150	100	120	145	225	285	* 20	—	—	8	80	80	100	125	205	265	8	8	M8 x 12	2 x 1	15
200 ~ 300	145	165	190	270	430	30	15	—	10	105	125	150	230	390	30	30	M12 x 40	2 x 1	20	
400 ~ 750	145	165	190	270	430	40	20	—	10	105	125	150	230	390	30	30	M16 x 45	2 x 1	25	
800 ~ 1000	165	185	210	290	450	* 60	30	—	10	115	135	160	240	400	30	30	M20 x 50	2 x 1	40	
1200 ~ 1500	165	185	210	290	450	90	21	48	10	115	135	160	240	400	30	30	M16 x 45	2 x 2	40	
1600 ~ 3000	165	185	210	290	450	120	30	60	10	115	135	160	240	400	30	60	M20 x 50	2 x 2	40	
4000 ~ 5000	165	185	220	300	460	120	30	60	15	115	135	170	250	410	60	60	M20 x 50	2 x 2	40	
6000 ~ 7500	175	195	220	300	460	154	25	52	25	125	145	170	250	410	60	60	M20 x 75	2 x 3	40	
8000 ~ 10000	185	205	—	—	—	206	25	52	25	135	155	180	260	420	60	—	M20 x 85	2 x 4	40	
12000 ~ 15000	185	205	—	—	—	310	25	52	25	135	155	180	260	420	60	—	M20 x 85	2 x 6	40	

**Note:** 1) Dimensions A, E, H are the same for 50mV shunt & 60mV shunt. 2) Unless specified, tolerance for mounting dimensions (Dim 'E') shall be ±1.5mm upto 1500A rating & ±2.0mm for the ratings above 1500A. 3) Maximum value of 'H' is specified, Minimum value is equal to corresponding value of 'Ct. 4)\* Dimension 20 & 60mm is for 60/75mV and 25 & 70mm respectively for 100-300mV. 5) The power consumption of measuring instruments should not exceed 500microwatts for interchangeable shunts.(All dimensions are in mm )