

Specification of Power Pack for DC supply requirement in HT switchgears

1. Application :-

110 V DC Power Pack shall be suitable for Closing/tripping operation of breaker along with providing aux. supply to Numerical, Electromechanical & Auxiliary relays & aux. contactors with back up time of 30 minutes. The power pack shall be housed in LT chamber of switchgear panel.

2. Scope of supply :-

Item S.No.	Item Description	Qty
01	110 V DC Power Pack with back up for 30 minutes	-

3. Technical Parameters

S.No.	TECHNICAL PARAMETER		BIDDERS CONFIRMATION
1	Input supply :- 230 V +/-10 % AC,50 Hz,1-Phase 2-wire		YES / NO
2	DC Output supply :- 110 V DC (+/-10 %)		YES / NO
3	Connected burden:-	Following devices shall be connected in circuit	YES / NO
		a. 1 no. Closing coil/Tripping coil (46.8 Ω) momentarily	
		b. 1 no.Numerical relay -15 Watts max.	
		c. 2 nos Electromechanical relays -20 VA	
		d. 1 no.Aux.contactors (1.35 k Ω)	
		e. 1 no.Plug-in relay (600 Ω)	
		f. 7 no.Indicating lamps (LEDs)- 8 Watts max.	YES / NO
4	Battery Back up time	30 minutes	YES / NO
4	Terminals	Stud type suitable for 2.5 sq.mm PVC cable	YES / NO
5	H.V.withstand	2kV,50 Hz for 1 minute	YES / NO
6	Max.dimension	600 (l) x 200 (w) x 250 (d)	YES / NO
7	Housing	Pre-treated, powder coated metal cabinet suitable for base mounting	YES / NO
8	Ambient temp.	50 deg.Centigrade	YES / NO

4. Acceptance Criteria

(i)	Visual checks for cracks & surface finish
(ii)	Availability of routine test certificate, equipment catalogue and O& M manual
(iii)	Power pack must provide atleast 5 closing & 5 tripping commands in the event of Aux. supply failure
(iv)	Compliance to Technical Parameters Clause No.3

5. Performance Guarantee

The supplier shall furnish guarantee for satisfactory operation of power pack for 24 months from date of supply or 18 months from the date of commissioning whichever ,is earlier.

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