

DETAILS OF LONG DESCRIPTION FOR INDENT NO. : D82890002

| Item Sino | Material Code | Short Description | Long Description | Unit | Cleared Qty. | Dely. Dt. |
|-----------|---------------|--------------------------------------|---|------|--------------|-----------|
| 1 | IM9103321012 | FEEDER PROTECTION RELAY WITH BREAKER | FEEDER PROTECTION RELAY WITH BREAKER CONTROL. APPLICATION- FEEDER PROTECTION AND CONTROL. PROTECTION- NON-DIRECTIONAL OVERCURRENT PROTECTION, LOW, HIGH, INSTANTANEOUS-SET STAG, GROUND-FAULT PROTECTION, LOW- HIGH-SET STAG, 3PHASE TRANSFORMER INRUSH DETECTOR, 3PHASE THERMAL OVERLOAD PROTECTION FOR FEEDERS, CABLES AND DISTRIBUTION TRANSFORMERS PHASE DISCONTINUITY PROTECTION, CIRCUIT BREAKER FAILURE PROTECTION, MASTER TRIP, TWO SETTING GROUPS, CONTROL- BREAKER CONTROL FUNCTIONALITY, TRIP CIRCUIT SUPERVISION, MEASUREMENT- 3PHASE CURRENT MEASUREMENT, RESIDUAL CURRENT MEASUREMENT, NEGATIVE PHASE SEQUENCE CURRENT, THERMAL LEVEL, OPERATION COUNTER, POWER SUPPLY- 24 & 240V AC/DC ANALOG INPUT/ OUTPUT- PHASE AND GROUND CURRENT INPUT 1A OR 5A (USER SELECTABLE) BINARY INPUT/OUTPUT- 4 BI + 4BO, RATED VOLTAGE, 24- 240V AC, COMMUNICATION & MODBUS RTU WITH RS485 TWO WIRE FOR SCADA COMMUNICATION METER SHOULD BE GIVEN WITH SUITABLE PROGRAMMING SOFTWARE WHICH CAN BE USED IN WINDOWS OS, DEGREE OF PROTECTION: IP 54 & ABOVE, TYPE: REF 601, MAKE: ABB. NOTE- THE DIAMENSION OF THE RELAY MUST NOT EXCEED THE FOLLOWING LIMITS, 1. LENGTH- 160MM, 2. HEIGHT & 160MM. | NO | 5.000 | |

| Technical Specification For Feeder Protection Relay with Breaker Control | | |
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| SL NO | MAKE | DESCRIPTION |
| 1 | APPLICATION | Feeder protection and control Non-directional overcurrent protection, low, high, instantaneous -set stag Ground-fault protection, low, high-set stage Three-phase transformer inrush detector Three-phase thermal overload protection for feeders, cables and distribution transformers Phase discontinuity protection Circuit breaker failure protection Master trip Two setting groups Breaker control functionality Trip circuit supervision Three-phase current measurement Residual current measurement Negative phase sequence current Thermal level Operation counter |
| 2 | PROTECTION | |
| 3 | CONTROL | |
| 4 | MEASUREMENT | |
| 5 | POWER SUPPLY | 24...240V AC / DC |
| 6 | ANALOG INPUT / OUTPUT | Phase and Ground current input 1A or 5A(User selectable) |
| 7 | BINARY INPUT / OUTPUT | 4 BI +4 BO Rated voltage, 24...240 V AC, With continuous current carry of 6A |
| 8 | COMMUNICATION | MODBUS RTU with RS485 two wire For SCADA communication Meter should be given with suitable programming software which can be used in windows OS |
| 9 | DEGREE OF PROTECTION | IP 54 and above |

PRE QUALIFICATION REQUIREMENT FOR THE INDENT NO. D828 9 0002

1. SUPPLIER MAY BE MANUFACTURER / AUTHORIZED DISTRIBUTOR
2. AUTHORIZED DISTRIBUTOR MUST ENCLOSE A COPY OF DEALERSHIP CERTIFICATE FOR THE CURRENT YEAR.
3. IF SUPPLIER IS A AUTHORIZED DISTRIBUTOR HE MUST ENCLOSE ATLEAST ONE PURCHASE ORDER COPY FOR SUPPLY OF MATERIALS FOR ABB MAKE DRIVES TO THEIR CUSTOMERS IN LAST TWO YEARS AS ON THE DATE OF TENDER OPENING ALONG WITH THEIR TECHNICAL BID.

PURCHASE ORDER COPY NOT ACCOMPANIED WITH TECHNICAL BID FOR AUTHORIZED DISTRIBUTOR WILL NOT BE CONSIDERED.

A handwritten signature in black ink, consisting of a stylized 'J' followed by a horizontal line and a small loop.