



**ENGINEERING  
SPECIFICATION**

|            |                      |
|------------|----------------------|
| Part No.   | 800-098-SUF 92 TO 95 |
| Ref. Code  | 403                  |
| U.O.M.     | EA                   |
| Engg. Ref. | CAC/ CHILLER         |

Part Description : 3 POLE THERMAL OVERLOAD RELAY

FF1-1

**BASIC REQUIREMENTS**

|                                   |   |
|-----------------------------------|---|
| No OF POLE                        | : 3   |
| MOUNTING                          | : DIRECT TO CONTACTOR                           |
| MAXIMUM OPERATING VOLTAGE         | : 690VAC  |
| OPERATING TEMPERATURE RANGE       | : -5°C TO 55°C                                  |
| No. OF BUILT-IN CONTACT (MINIMUM) | : 1No + 1 NC                                    |
| RESET TYPE                        | : MANUAL/ AUTO                                  |
| CERTIFICATION                     | : IEC   |
| MARKING                           | : PART MUST BE MARKED WITH VENDOR P/N & ZAC P/N |

| SUF. No. | REV. No. | CURRENT SETTING AMPS |
|----------|----------|----------------------|
| 92       | 01       | 20-33                |
| 93       | 01       | 30-50                |
| 94       | 01       | 45-75                |
| 95       | 01       | 66-110               |

**QUALIFIED**

QA: *[Signature]* DATE: 040905

|  |   |  |  |              |                 |               |                                |
|--|---|--|--|--------------|-----------------|---------------|--------------------------------|
| ALL DIMENSIONS ARE IN mm   |   |  |  | SHEET 1 of 3 |                 | SCALE : N.T.S |                                |
| Tolerance: : Unless noted ( ± ) : fraction 1/32" ; Decimal 0.031 |   |  |  | WRITER       | AL-ALI. HUSAIN  |               |                                |
|  |   |  |  | INITIATOR    | IBRAHIM         |               |                                |
|  |   |  |  | ENG. CHECK   | AHMAD <i>F</i>  |               |                                |
|  |   |  |  | VERIFIED     | Moh'd Al Sayyed |               |                                |
|  |   |  |  | APPROVED     | MATHEW          |               |                                |
| 01   | MOVED SUF 92-91 TO SEPARATE SPECS & ADDED D.W.G |  |  | HUSAIN       | 20-08-05        | Issue Date    | 21-03-2005                     |
| REV  | Revision Details                                |  |  | Designer     | Rev.Date        | File Ref.     | Ziicnas\Eng-Specs\800\09892-95 |



**ENGINEERING  
SPECIFICATION**

|            |                      |
|------------|----------------------|
| Part No.   | 800-098-SUF 92 TO 95 |
| Ref. Code  | 403                  |
| U.O.M.     | EA                   |
| Engg. Ref. | CAC/ CHILLER         |

**Part Description : 3 POLE THERMAL OVERLOAD RELAY**


FF1-2

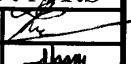
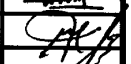

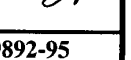

**REFERENCE DATA**

|                                   |                              |
|-----------------------------------|------------------------------|
| <b>VENDOR</b>                     | <b>: L &amp; T, INDIA</b>    |
| <b>No. OF BUILT-IN CONTACT</b>    | <b>: 2 NO + 1 NC</b>         |
| <b>END TERMINALS (TYPE/ SIZE)</b> | <b>: 10 SQ.MM</b>            |
| <b>PACKING DETAILS</b>            | <b>: INDIVIDUALLY PACKED</b> |

| SUF. No. | REV. No. | VENDOR MODEL # | CURRENT SETTING AMPS |
|----------|----------|----------------|----------------------|
| 92       | 01       | MNX R4         | 20-33                |
| 93       | 01       | MNX R4         | 30-50                |
| 94       | 01       | MNX R4         | 45-75                |
| 95       | 01       | MNX R4         | 66-110               |

**QUALIFIED**

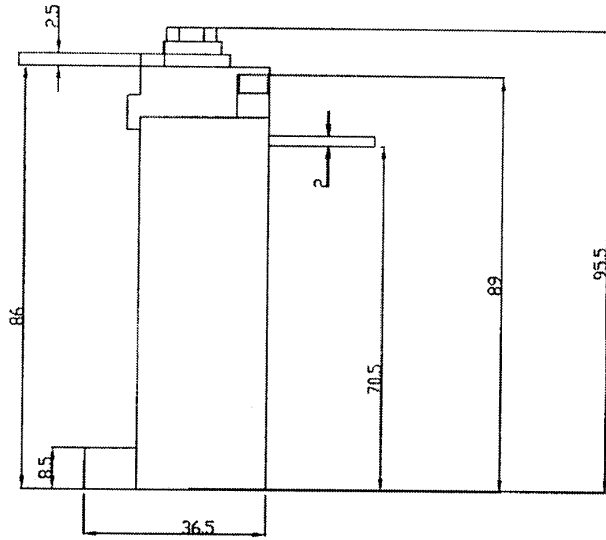
 QA      040905  
 DATE

|   |  |  |  |                     |                        |   |   |
|---|--|--|--|---------------------|------------------------|---|---|
| <b>ALL DIMENSIONS ARE IN mm</b>                                       |  |  |  | <b>SHEET 2 of 3</b> |                        | <b>SCALE : N.T.S</b>  |   |
| <b>Tolerance: : Unless noted (±) : fraction 1/32" ; Decimal 0.031</b> |  |  |  | <b>WRITER</b>       | <b>AL-ALI. HUSAIN</b>  |  |   |
|   |  |  |  | <b>INITIATOR</b>    | <b>IBRAHIM</b>         |  |   |
|   |  |  |  | <b>ENG. CHECK</b>   | <b>AHMAD</b>           | F   |  |
|   |  |  |  | <b>VERIFIED</b>     | <b>Moh'd Al Sayyed</b> |  |   |
|   |  |  |  | <b>APPROVED</b>     | <b>MATHEW</b>          |  |   |
| <b>01</b>   | <b>MOVED SUF 82-91 TO SEPARATE SPECS &amp; ADDED D.W.G</b> |  |  | <b>HUSAIN</b>       | <b>20-08-05</b>        | <b>Issue Date</b>   | <b>21-03-2005</b>   |
| <b>REV</b>  | <b>Revision Details</b>                                    |  |  | <b>Designer</b>     | <b>Rev.Date</b>        | <b>File Ref.</b>  | <b>Ziicnas\Eng-Specs\800\09892-95</b>   |

|            |                      |
|------------|----------------------|
| Part No.   | 800-098-SUF 92 TO 95 |
| Ref. Code  | 403                  |
| U.O.M.     | EA                   |
| Engg. Ref. | CAC/ CHILLER         |

**Part Description : 3 POLE THERMAL OVERLOAD RELAY**

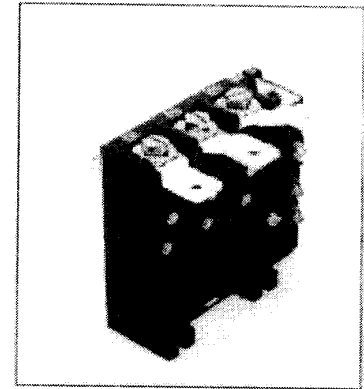
**OVERALL DIMENSION**



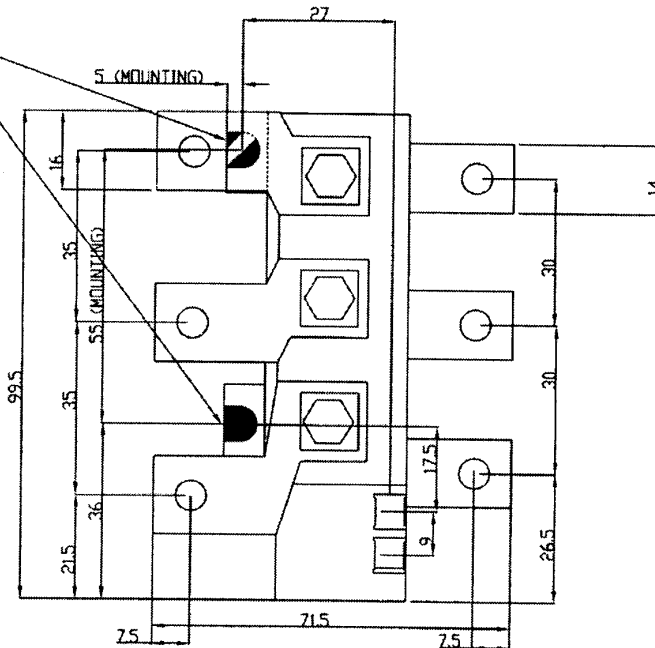
FF1-3



INSTRUCTIONS FOR USE



MOUNTING SCREW: M5



**MNX R4 THERMAL OVERLOAD RELAY**  
WITH SINGLE PHASING PROTECTION  
WITH START & OFF/RESET ACTUATION  
REGD DESIGN NO. 154221

**QUALIFIED**  
040905  
DATE

|  |   |        |          |              |                 |                                |                    |
|--|---|--------|----------|--------------|-----------------|--------------------------------|--------------------|
| ALL DIMENSIONS ARE IN mm   |   |        |          | SHEET 3 of 3 |                 | SCALE : N.T.S                  |                    |
| Tolerance: : Unless noted ( ± ) : fraction 1/32" ; Decimal 0.031 |   |        |          | WRITER       | AL-ALI. HUSAIN  |                                | <i>[Signature]</i> |
|  |   |        |          | INITIATOR    | IBRAHIM         |                                | <i>[Signature]</i> |
|  |   |        |          | ENG. CHECK   | AHMAD           |                                | <i>[Signature]</i> |
|  |   |        |          | VERIFIED     | Moh'd Al Sayyed |                                | <i>[Signature]</i> |
|  |   |        |          | APPROVED     | MATHEW          |                                | <i>[Signature]</i> |
| 01   | MOVED SUF 82-91 TO SEPARATE SPECS & ADDED D.W.G | HUSAIN | 20-08-05 | Issue Date   | 21-03-2005      |                                |                    |
| REV  | Revision Details                                |        | Designer | Rev.Date     | File Ref.       | Ziicnas\Eng-Specs\800\09892-95 |                    |