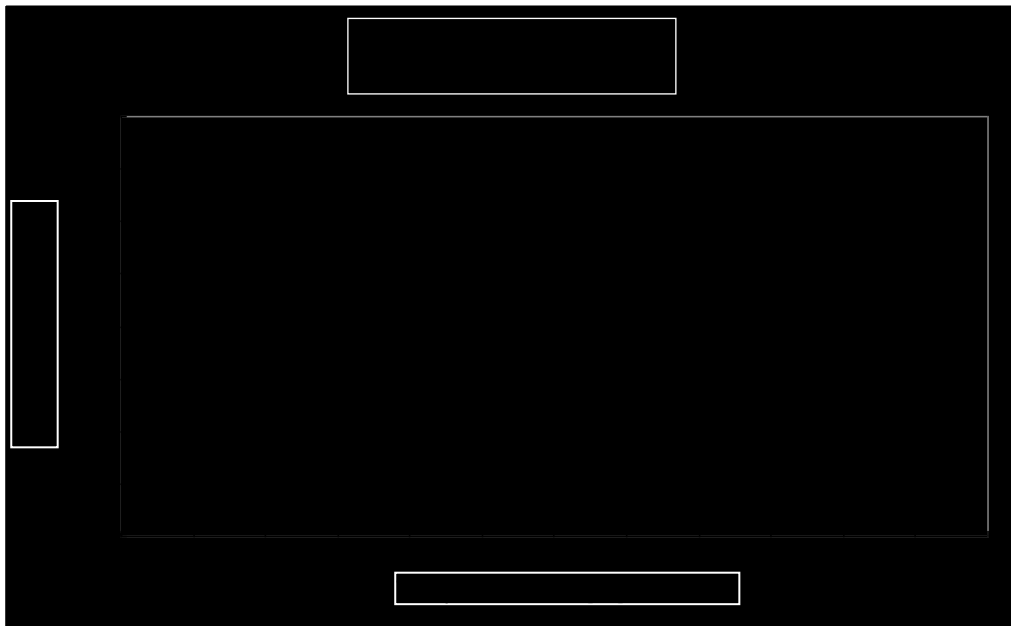
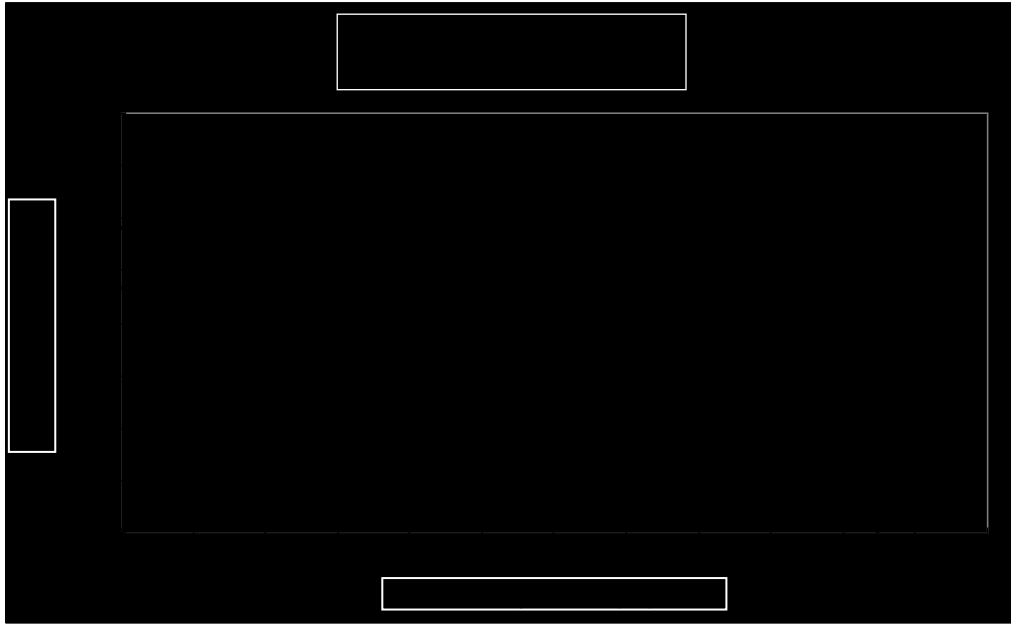


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| | | | | | |
|---|--|---|--|---------------------------------------|------------|
| Applicable standard | | UL : UL1977, C-UL : CSA22.2 No.182.3-M1987, TÜV : EN61984:2009 ⁽³⁾ | | | |
| RATING | Voltage | 250 V AC/DC(UL/C-UL) | Operating Temperature Range | -55 °C to 105 °C ⁽¹⁾ | |
| | | 150V AC/DC(TÜV) | Operating Humidity Range | Relative Humidity 85% max (Not dewed) | |
| | Current | 22 A (AMBIENT TEM 25°C) | Storage Temperature Range | -10 °C to 60 °C ⁽²⁾ | |
| | | 15 A (UL/C-UL) 16 A (TÜV) | Storage Humidity Range | 40 % to 70 % ⁽²⁾ | |
| SPECIFICATIONS | | | | | |
| ITEM | TEST METHOD | | REQUIREMENTS | QT | AT |
| CONSTRUCTION | | | | | |
| General Examination | Visually and by measuring instrument. | | According to drawing. | x | x |
| Marking | Confirmed visually. | | | x | x |
| ELECTRIC CHARACTERISTICS | | | | | |
| Contact Resistance | 10 mA(DC or 1000Hz) | | 2 mΩ MAX. | x | — |
| Insulation Resistance | 250 V DC. | | 1000 MΩ MIN. | x | — |
| Voltage Proof | 750 V AC for 1 min. | | No flashover or breakdown. | x | — |
| MECHANICAL CHARACTERISTICS | | | | | |
| Insertion and Withdrawal Forces | Measured by applicable connector. | | Insertion Force: 15 N MAX. Withdrawal Force: 0.6 N MIN. | x | — |
| Mechanical Operation | 100 times insertions and extractions. | | ① Contact Resistance: 5 mΩ MAX. ② No damage, crack and looseness of parts. | x | — |
| Vibration | Frequency 10 to 55 to 10Hz, approx 5min Single amplitude : 0.75 mm, 10 cycles for 3 axial directions. | | ① No electrical discontinuity of 1 μs. ② No damage, crack and looseness of parts. | x | — |
| Shock | 490 m/s ² , duration of pulse 11 ms, 3 times to both directions in 3 axial directions. | | | x | — |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| Damp Heat (Steady State) | Exposed at 40±2 °C, 90 ~ 95 %, 96 ±4h. | | ① Contact Resistance: 5mΩ MAX. ② Insulation Resistance: 1000 MΩ MIN. | x | — |
| Rapid Change of Temperature | Temperature -55 → +105 °C Time 30 → 30 min. under 5 cycles. (Relocation time to chamber: within 2~3 MIN) | | ③ No damage, crack and looseness of parts. | x | — |
| Dry heat | Exposed at +105±2°C for 96±4h. | | | x | — |
| Cold | Exposed at -55±2°C for 96±4h. | | | x | — |
| Sulfur Dioxide | Exposed at 25±2°C, 75±5%RH, 25 PPM for 96h±4h. | | ① Contact Resistance: 5mΩ MAX. ② No defect such as corrosion which impairs the function of connector. | x | — |
| Resistance to Soldering Heat | Solder bath : Solder temperature 260±5°C for immersion, duration 10±1sec. Soldering irons : 380°C MAX. for 10 sec. | | No deformation of case of excessive looseness of the terminal. | x | — |
| Solderability | Soldered at solder temperature 240±3°C for immersion, duration 3 sec. | | A new uniform coating of solder shall cover a minimum of 95 % of the surface being immersed. | x | — |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| | 2 | DIS-F-00002346 | TS. 00N0 | HT. YAMAGUCHI | 17. 05. 12 |
| REMARKS ⁽¹⁾ Include temperature rise caused by current-carrying. ⁽²⁾ "Storage" means a long-term storage state for the unused product before assembly to PCB. ⁽³⁾ Pollution degree:2 type of terminals :dip solder contacts. | | | APPROVED | HS. OKAWA | 13. 03. 07 |
| | | | CHECKED | KI. HIROKAWA | 13. 03. 07 |
| | | | DESIGNED | DK. AIMOTO | 13. 03. 07 |
| | | | DRAWN | DK. AIMOTO | 13. 03. 07 |
| Unless otherwise specified, refer to JIS-C-5402,IEC60512. | | | | | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | ELC4-347256-00 | |
| | SPECIFICATION SHEET | | PART NO. | FX30B-3P-3. 81DSA20 | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL570-3101-6-00 | 1/2 |



[REFERENCE]




(note 4) Derating curve takes manufacturing tolerances into consideration as well as uncertainties in temperature measurement and the measuring set up and is derived from the base curve multiplied by 0.8 calculation.

(note 5) The value of rated current differs depending on the ambient temperature. it is recommended to use the product within the derating curve zone. if used under UL or TUV standard, please use within the standard specification.

(note 6) Measurement method of derating curve is shown below.

- Test Specimen : used FX30B-3P-3.81DS.
used FX30B-3S-3.81DS.
- Test condition : Turn on electricity under the static state and measure.
(Test report # TR570E-20627)

| | | | | | |
|--|---------------------------|-------------|----------|--------------------|---|
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | DRAWING NO. | | ELC4-347256-00 | |
| HRS | SPECIFICATION SHEET | | PART NO. | FX30B-3P-3.81DSA20 | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL570-3101-6-00 |  2/2 |

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