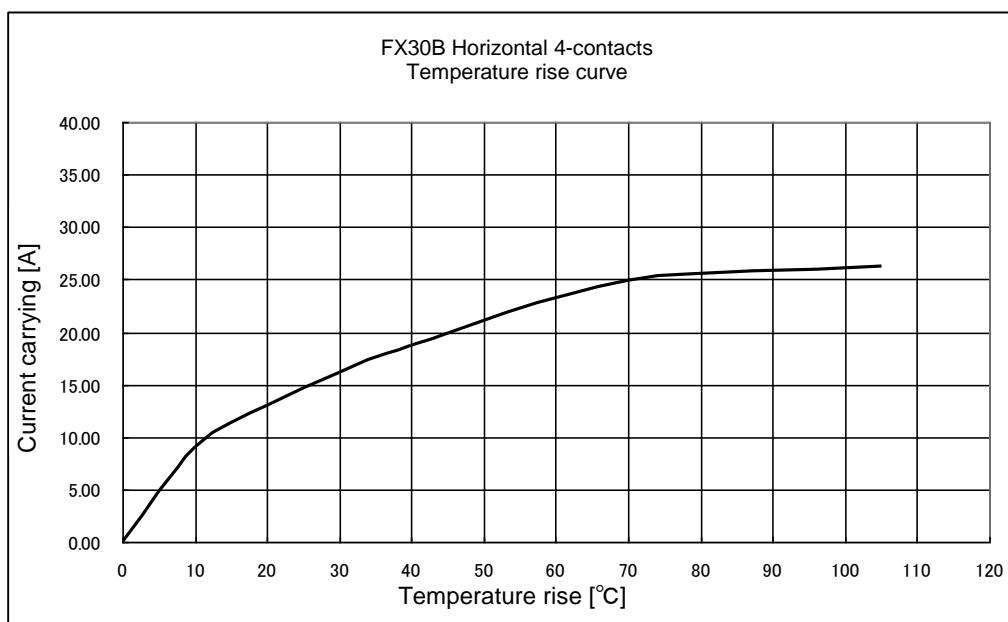
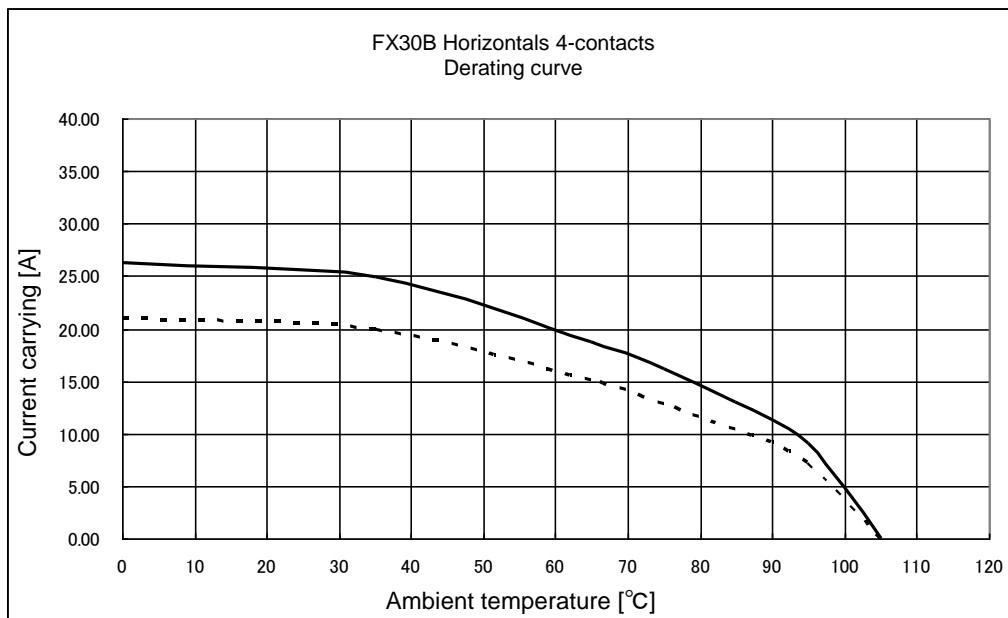


Applicable standard 		UL : UL1977, C-UL : CSA22.2 No.182.3-M1987, TÜV : EN61984:2009 ⁽³⁾					
RATING	Voltage  	250 V AC/DC(UL/C-UL) 150V AC/DC(TÜV)		Operating Temperature Range	-55 °C to 105 °C ⁽¹⁾		
				Operating Humidity Range	Relative Humidity 85% max (Not dewed)		
	Current  	20 A (AMBIENT TEPM 25°C) 13 A (UL/C-UL) 15 A (TÜV)		Storage Temperature Range	-10 °C to 60 °C ⁽²⁾		
				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.		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
Marking	Confirmed visually.				<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
ELECTRIC CHARACTERISTICS							
Contact Resistance	10 mA(DC or 1000Hz)		2 mΩ MAX.		<input checked="" type="checkbox"/> <input type="checkbox"/>		
Insulation Resistance 	250 V DC.		1000 MΩ MIN.		<input checked="" type="checkbox"/> <input type="checkbox"/>		
Voltage Proof 	750 V AC for 1 min.		No flashover or breakdown.		<input checked="" type="checkbox"/> <input type="checkbox"/>		
MECHANICAL CHARACTERISTICS							
Insertion and Withdrawal Forces	Measured by applicable connector.		Insertion Force: 20 N MAX. Withdrawal Force: 0.8 N MIN.		<input checked="" type="checkbox"/> <input type="checkbox"/>		
Mechanical Operation	100 times insertions and extractions.		^① Contact Resistance: 5 mΩ MAX. ^② No damage, crack and looseness of parts.		<input checked="" type="checkbox"/> <input type="checkbox"/>		
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.		<input checked="" type="checkbox"/> <input type="checkbox"/>		
Shock	490 m/s ² , duration of pulse 11 ms, 3 times to both directions in 3 axial directions.				<input checked="" type="checkbox"/> <input type="checkbox"/>		
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. ^③ No damage, crack and looseness of parts.		<input checked="" type="checkbox"/> <input type="checkbox"/>		
Rapid Change of Temperature	Temperature -55 → +105 °C Time 30 → 30 min. under 5 cycles. (Relocation time to chamber: within 2~3 MIN)				<input checked="" type="checkbox"/> <input type="checkbox"/>		
Dry heat	Exposed at +105±2°C for 96±4h.				<input checked="" type="checkbox"/> <input type="checkbox"/>		
Cold	Exposed at -55±2°C for 96±4h.				<input checked="" type="checkbox"/> <input type="checkbox"/>		
Sulfur Dioxide	Exposed at 25±2°C, 75±5%RH, 25 PPM for 96h±4h.				<input checked="" type="checkbox"/> <input type="checkbox"/>		
Resistance to Soldering Heat 	Solder bath : Solder temperature 260±5°C for immersion, duration 10±1sec.		No deformation of case of excessive looseness of the terminal.		<input checked="" type="checkbox"/> <input type="checkbox"/>		
	Soldering irons : 380°C MAX. for 10 sec.				<input checked="" type="checkbox"/> <input type="checkbox"/>		
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.		<input checked="" type="checkbox"/> <input type="checkbox"/>		
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED		
	2	DIS-F-00002346		TS. 00N0	HT. YAMAGUCHI		
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			
			CHECKED	KI. HIROKAWA			
			DESIGNED	DK. AIMOTO			
			DRAWN	DK. AIMOTO			
Unless otherwise specified, refer to JIS-C-5402,IEC60512.			DRAWING NO.				
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			ELC4-347261-00				
	SPECIFICATION SHEET		PART NO.	FX30B-4P-3. 81DSA25			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL570-3202-3-00	 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-4P-3.81DS.
 used FX30B-4S-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.	ELC4-347261-00
HS	SPECIFICATION SHEET		PART NO.	FX30B-4P-3.81DSA25	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL570-3202-3-00	4 2/2