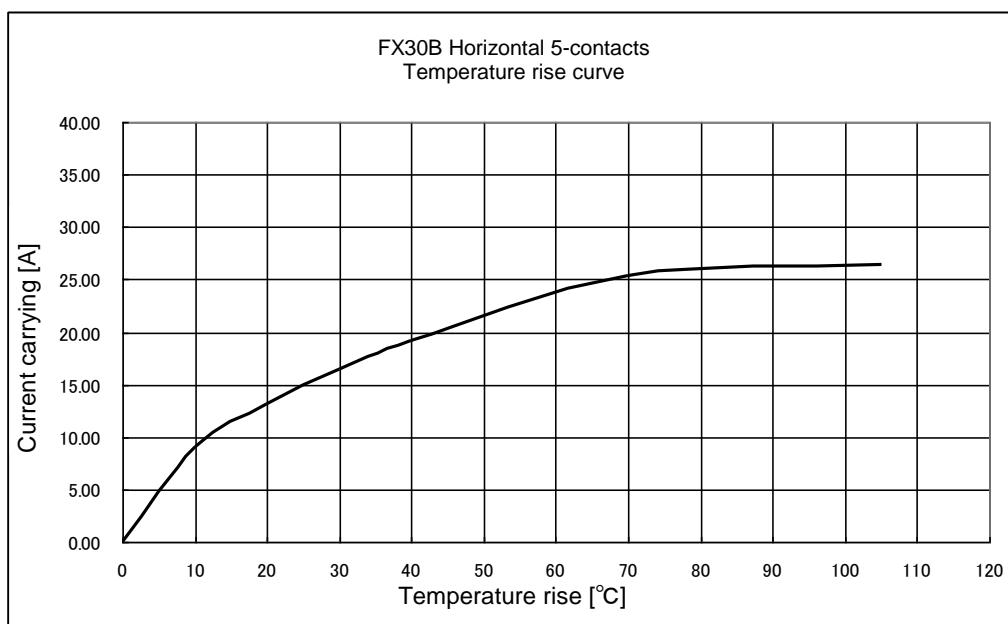
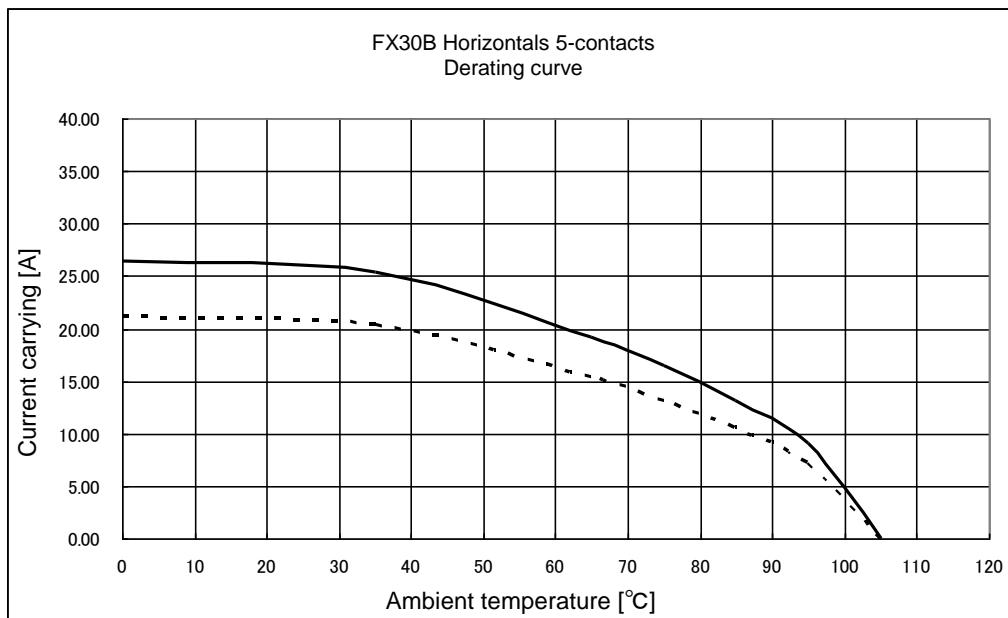


Applicable standard 		UL : UL1977, C-UL : CSA22.2 No.182.3-M1987, TÜV : EN61984:2009 <sup>(3)</sup>					
RATING	Voltage  	250 V AC/DC(UL/C-UL) 150V AC/DC(TÜV)		Operating Temperature Range	-55 °C to 105 °C <sup>(1)</sup>		
				Operating Humidity Range	Relative Humidity 85% max (Not dewed)		
	Current  	20 A (AMBIENT TEMPERATURE 25°C) 13 A (UL/C-UL) 15 A (TÜV)		Storage Temperature Range	-10 °C to 60 °C <sup>(2)</sup>		
				Storage Humidity Range	40 % to 70 % <sup>(2)</sup>		
<b>SPECIFICATIONS</b>							
ITEM	TEST METHOD		REQUIREMENTS		QT AT		
<b>CONSTRUCTION</b>							
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"/>		
<b>ELECTRIC CHARACTERISTICS</b>							
Contact Resistance	10 mA(DC or 1000Hz)		2 mΩ MAX.		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
Insulation Resistance 	250 V DC.		1000 MΩ MIN.		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
Voltage Proof 	750 V AC for 1 min.		No flashover or breakdown.		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
<b>MECHANICAL CHARACTERISTICS</b>							
Insertion and Withdrawal Forces	Measured by applicable connector.		Insertion Force: 25 N MAX. Withdrawal Force: 1.0 N MIN.		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
Mechanical Operation	100 times insertions and extractions.		<sup>①</sup> Contact Resistance: 5 mΩ MAX. <sup>②</sup> No damage, crack and looseness of parts.		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
Vibration	Frequency 10 to 55 to 10Hz, approx 5min Single amplitude : 0.75 mm, 10 cycles for 3 axial directions.		<sup>①</sup> No electrical discontinuity of 1 μs. <sup>②</sup> No damage, crack and looseness of parts.		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
Shock	490 m/s <sup>2</sup> , duration of pulse 11 ms, 3 times to both directions in 3 axial directions.				<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
<b>ENVIRONMENTAL CHARACTERISTICS</b>							
Damp Heat (Steady State)	Exposed at 40±2 °C, 90 ~ 95 %, 96 ±4h.		<sup>①</sup> Contact Resistance: 5mΩ MAX. <sup>②</sup> Insulation Resistance: 1000 MΩ MIN. <sup>③</sup> No damage, crack and looseness of parts.		<input checked="" type="checkbox"/> <input checked="" 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 checked="" type="checkbox"/>		
Dry heat	Exposed at +105±2°C for 96±4h.				<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
Cold	Exposed at -55±2°C for 96±4h.				<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
Sulfur Dioxide	Exposed at 25±2°C, 75±5%RH, 25 PPM for 96h±4h.				<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
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.		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
					<input checked="" type="checkbox"/> <input checked="" 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 checked="" type="checkbox"/>		
COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE		
 2	DIS-F-00002346		TS. 00N0	HT. YAMAGUCHI	17.05.12		
REMARKS <sup>(1)</sup> Include temperature rise caused by current-carrying. <sup>(2)</sup> "Storage" means a long-term storage state for the unused product before assembly to PCB. <sup>(3)</sup> 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.			DRAWING NO.		ELC4-347271-00		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test							
	SPECIFICATION SHEET		PART NO.	FX30B-5P-3.81DS			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL570-3403-5-00	 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-5P-3.81DS.  
used FX30B-5S-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.	ELC4-347271-00
<b>HS</b>	<b>SPECIFICATION SHEET</b>		PART NO.	<b>FX30B-5P-3.81DS</b>	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL570-3403-5-00	4/2