





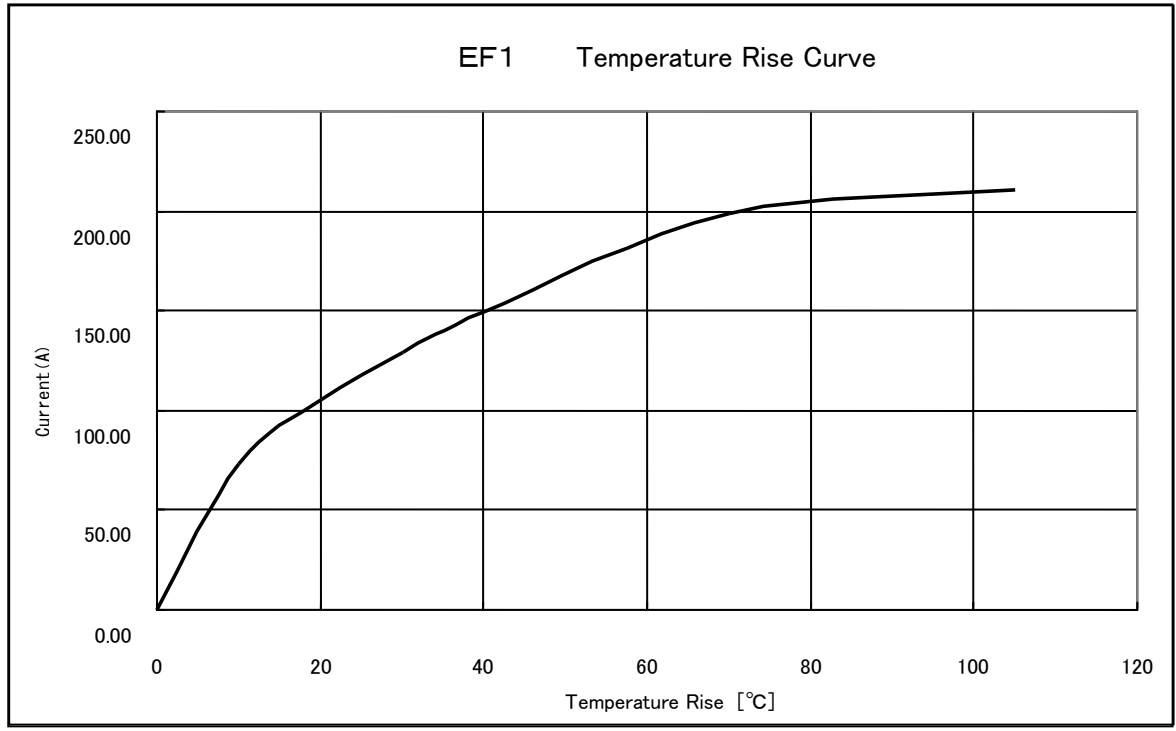
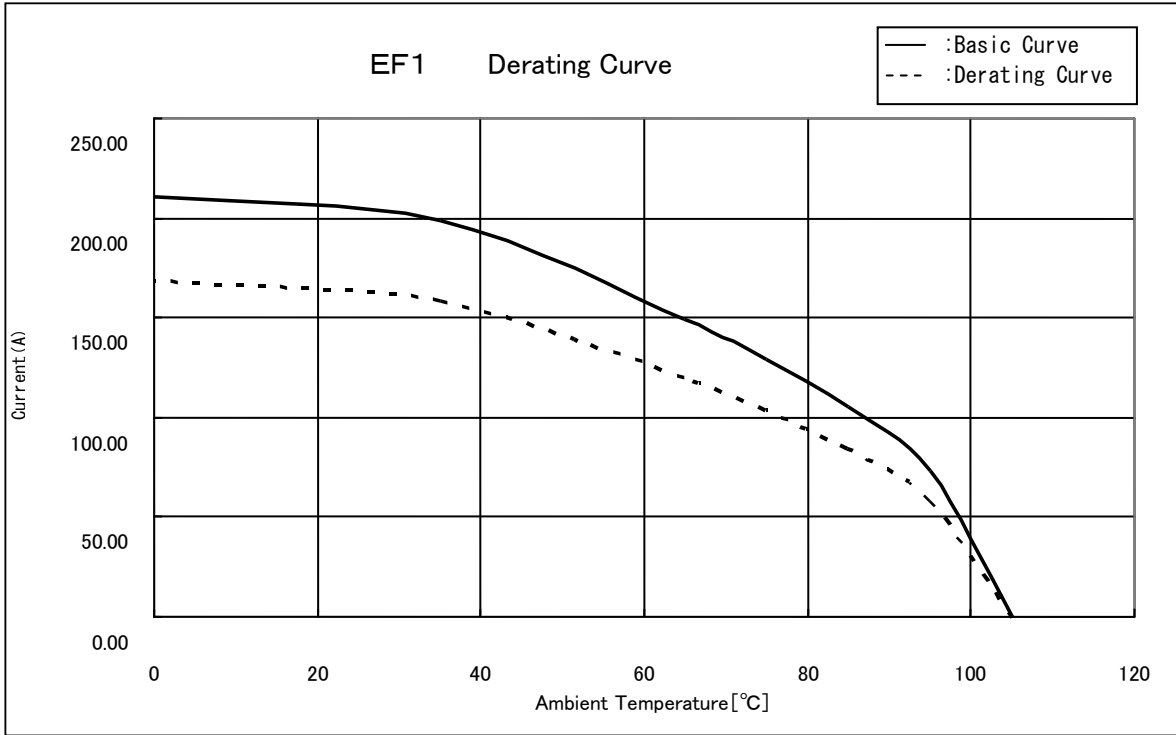


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APPLICABLE STANDARD		TÜV approved(J 50240903), UL approved(E52653)				
RATING	Operating Temperature Range	-25°C TO +105°C (1)		Storage Temperature Range	-10°C TO +60°C	
	Voltage 	AC, DC 600 V (UL, TÜV) AC, DC 1000 V		—	—	
	Current 	130 A (UL, TÜV) (6) 160 A (Ambient Temperature 25°C)		Applicable Cable	 38 (26.66 TO 42.42) mm ² AWG #2 Outer diameter : Φ11 TO 12.4	
SPECIFICATIONS						
ITEM	TEST METHOD			REQUIREMENTS	QT	AT
CONSTRUCTION						
General Examination	Examined visually and with a measuring instrument.			According to the drawing.	X	X
Marking	Confirmed visually.				X	X
ELECTRICAL CHARACTERISTICS						
Contact Resistance	Measured at 1 A DC.			0.5 mΩ MAX.	X	X
Insuration Resistance	Measured at 500 V DC.			1000 MΩ MIN.	X	X
Voltage Proof	3310 V AC applied for 1 min. Current leakage 2 mA MAX.			No flashover or breakdown.	X	X
MECHANICAL CHARACTERISTICS						
Mating and Unmating Forces	Measured with an applicable connector without locking device.			Mating and unmating force : 100 N MAX. (Initial measurement)	X	—
Contact Retention Forces	Subjected to a tensile force of 150N MAX.			No damage.	X	—
Mechanical Operation	Mated and unmated 30 times.			① No damage, cracks or looseness of parts. ② Contact resistance : 1 mΩ MAX. ③ Mating and unmating force : 150 N MAX.	X	—
Vibration	Frequency : 10 Hz to 55 Hz, Single amplitude : 0.75 mm, Acceleration : 98 m/s ² Performed over 10 cycles in each of three mutually perpendicular directions.			① No electrical discontinuity of more than 10 μs. ② No damage, cracks or looseness of parts.	X	—
Shock	Acceleration : 490 m/s ² Half sine wave pulses of 11 ms. Performed 3 times in each of 6 mutually perpendicular directions.				X	—
ENVIRONMENTAL CHARACTERISTICS						
Rapid Change of Temperature	Temperature : -55 → R/T ⁽²⁾ → +105 → R/T °C Time : 30 → 2 TO 3 → 30 → 2 TO 3 min for 5 cycles.			① Insuration resistance : 1000 MΩ MIN. ② No damage, cracks or looseness of parts.	X	—
Damp Heat (Steady State)	Subjected to +40 °C, at a humidity of 90% TO 95% for 96 h.			① Insuration resistance : 10 MΩ MIN. (At high humidity) ② Insuration resistance : 100 MΩ MIN. (When dry) ③ No damage, cracks or looseness of parts.	X	—
Corrosion Salt Mist	Subjected to 5% salt spray for 48 h.			No heavy corrosion which impairs functionality.	X	—
Dry Heat	Subjected to +105°C for 96 h.			No damage, cracks or looseness of parts.	X	—
Cold	Subjected to -55°C for 96 h.			No damage, cracks or looseness of parts.	X	—
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE
	5	DIS-C-00001410		TH. KAMEYA	HY. KOBAYASHI	17.01.30
Notes 				APPROVED	EJ. KUNII	15.10.05
1) Operating temperature range includes the temperature rise by current carrying.				CHECKED	EJ. KUNII	15.10.05
2) R/T :Room temperature				DESIGNED	TP. KOMATSU	15.10.05
3) Above specifications shows the values in assembled condition with applicable crimp contacts.				DRAWN	SY. KONDO	15.10.05
4) This product is designed to be used under stationary conditions. Please avoid applications that vibration is applied.						
Unless otherwise specified, refer to IEC 60512.						
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.	ELC-117802-21-00	
SPECIFICATION SHEET				PART NO.	EF1-38R-1SCA (21)	
HIROSE ELECTRIC CO., LTD.				CODE NO.	CL142-0001-3-21	 1/2



- 5) The derating curve is derived from the basic curve multiplied by the derating factor of 0.8.
- 6) The value of rated current varies with the ambient temperature. It is recommended to use the product within the derating curve zone. When using a UL or TÜV approved product, please use the product within the specified range as well as the derating curve area.
- 7) The measurement method of the derating curve is shown below.
 - Test specimen: This product, unused prior to testing.
 - Test cable conductor cross sectional area: AWG #2 (38mm²)
 - Test condition: Power supplied while the specimen is in a stationary state and then measured.

Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO. ELC-117802-21-00	
HRS	SPECIFICATION SHEET		PART NO. EF1-38R-1SCA (21)
	HIROSE ELECTRIC CO., LTD.		CODE NO. CL142-0001-3-21
			△ 2/2

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