


APPLICABLE STANDARD				
Rating	Operating Temperature Range <sup>(3)</sup>	-40 °C TO +125 °C	Storage Temperature Range	-10 °C TO +60 °C
	Voltage	_____	_____	_____
	Current <sup>(2)</sup> 	50A (UL, TÜV) 70A (Ambient Temperature 25°C)	Applicable Cable <sup>(5)</sup>	① Conductor area: 8.44 TO 8.92 mm <sup>2</sup> (AWG#8 equivalent) ② Conductor Diameter: $\phi$ 4.4MAX. ③ Jacket Diameter: $\phi$ 11.5MAX.

## SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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## CONSTRUCTION

General Examination	Examined visually and with a measuring instrument.	According to the drawing.	X	X
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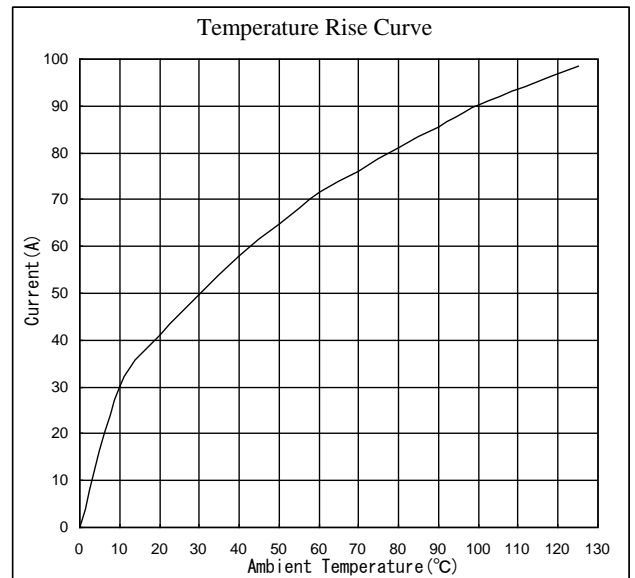
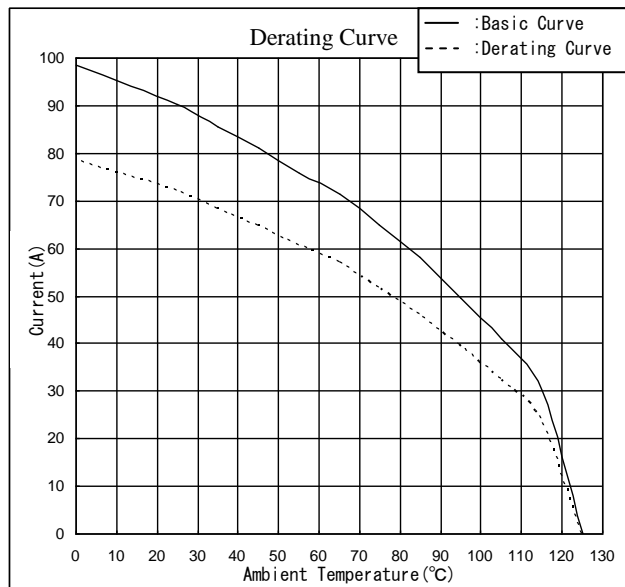
## ELECTRIC CHARACTERISTICS

Contact Resistance	Measured at DC 1A.	1 m $\Omega$ MAX.	X	—
Contact Insertion and Extraction Forces	Measured with a $\phi 4.5_0^{+0.003}$ steel gauge.	Insertion and extraction forces: 1.4 N ~10N .	X	—

## ENVIRONMENTAL CHARACTERISTICS


CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	NO HEAVY CORROSION RUIN THE FUNCTION.	X	—
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[Reference]



Measurement method:


Assemble three crimped contacts with (8.44 TO 8.92) mm<sup>2</sup> wire into each plug EM35MP-4SC and the receptacle EM35MR-4PC except for the grounding contact position, and then serially connect and measure. Plug is sealed for water tightness.

Notes: 

(1) Derating curve is derived from current value of basic curve multiplied by 0.8.

(2) 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.

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
	2	DIS-C-00001386	HY. KISHI	HY. KOBAYASHI	17. 01. 26

NOTES

(3) Includes temperature rise due to current carrying.



(4) RoHS COMPLIANT

(5) The applicable cable should satisfy both conditions ① to ③.

APPROVED	EJ. KUNII	12. 04. 24
CHECKED	HY. KISHI	12. 04. 23
DESIGNED	HK. NAMA I	12. 04. 23
DRAWN	HK. NAMA I	12. 04. 23

Unless otherwise specified, refer to JIS C 5402.

Note	QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC4-117064-01
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	SPECIFICATION SHEET	PART NO.	EM-SC-143 (01)		
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL138-0024-0-01		1/1