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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD		TÜV, and UL certification planned				
Rating	Operating Temperature Range	-25°C to +105°C <sup>(2)</sup>		Storage Temperature Range	-10°C to +60°C	
	Voltage	AC 600V, DC 600V				
	Current	40A (5.5mm <sup>2</sup> cable) 50A (8mm <sup>2</sup> cable) 70A (14mm <sup>2</sup> cable)		Applicable Cable	5.5mm <sup>2</sup> (AWG10) 8mm <sup>2</sup> (AWG8) 14mm <sup>2</sup> (AWG6)	
SPECIFICATIONS						
ITEM	TEST METHOD			REQUIREMENTS	QT	AT
<b>CONSTRUCTION</b>						
General Examination	Examined visually and with a measuring instrument.			According to the drawing.	X	X
Marking	Confirmed visually.				X	X
<b>ELECTRICAL CHARACTERISTICS</b>						
Contact Resistance	Measured at DC 1A.			1mΩ MAX.	X	—
Insulation Resistance	Measured at DC 500V.			1000MΩ MIN.	X	—
Voltage Proof	AC 2500V applied for 1min.(NECA C 2811)			No flashover or breakdown.	X	—
Short-Time Withstand Current Test	Measured at 660A applied for 1s. (5.5mm <sup>2</sup> cable) Measured at 960A applied for 1s. (8mm <sup>2</sup> cable) Measured at 1680A applied for 1s. (14mm <sup>2</sup> cable) (JIS C 8201)			Contact Resistance: 1.5 mΩ MAX.	X	—
<b>MECHANICAL CHARACTERISTICS</b>						
Crimp Contact Insertion and Extraction Forces	Measured with an applicable connector.			Insertion Force: 110N MAX.	X	—
Mechanical Operation	Contact Inserted and Extracted 50 times.			1) No function impairing damage, cracks, or looseness of parts. 2) Contact Resistance: 1.5mΩ MAX. 3) Insertion Force: 110N MAX.	X	—
Vibration	Frequency: 10 Hz to 500 Hz Single amplitude: 0.75 mm Performed three hours in each of three mutually $\triangle$ perpendicular directions. (MIL-STD-1344 Method 2005, Condition 2)			1) No electrical discontinuity of 10μs. 2) No damage, cracks, or looseness of parts.	X	—
Shock	Acceleration: 500 m/s <sup>2</sup> Half sine wave pulses of 11 ms. Performed five times both ways in each of three mutually perpendicular directions.			1) No electrical discontinuity of 10μs. 2) No damage, cracks, or looseness of parts.	X	—
Contact Retention Force	A 150N pulling force was applied to the connection side. (5.5mm <sup>2</sup> cable, 8mm <sup>2</sup> cable) A 200N pulling force was applied to the connection side. (14mm <sup>2</sup> cable) (NECA C 2811)			No damage.	X	—
<b>ENVIRONMENTAL CHARACTERISTICS</b>						
Damp Heat (Steady State)	Subjected to 40±2°C, at a humidity 90% to 95%, for 96 hours. Returned to room temperature and normal humidity, and removed of any water. (NECA C 2811)			1) Insulation Resistance: 20MΩ MIN. 2) Voltage Proof: AC 2500V applied for 1min. No flashover or breakdown. 3) No damage, cracks, or looseness of parts.	X	—
Heat and Cold Resistance	Subjected to -25±3°C for 2 hours. Returned to room temperature for 1 hour. Subjected to 70±3°C for 2 hours. (NECA C 2811)			1) Insulation Resistance: 20MΩ MIN. 2) Voltage Proof: AC 2500V applied for 1min. No flashover or breakdown. 3) No damage, cracks, or looseness of parts.	X	—
Ageing Test	40A (5.5mm <sup>2</sup> cable) 50A (8mm <sup>2</sup> cable) 70A (14mm <sup>2</sup> cable) With the rated current shown above applied, subjected to the following cycle 192 times. Subjected to 40±3°C for 10 minutes, cooled to 30°C and left for 10 minutes. (JIS C 8201)			1) Contact Resistance: 1.5mΩ MAX. 2) No damage, cracks, or looseness of parts.	X	—
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE
$\triangle$	1	DIS-C-00002387		TP. KOMATSU	YH. YAMADA	18.06.25
Notes				APPROVED	YH. YAMADA	18.02.26
(1) Above specifications show the values in assembled condition with applicable crimp contacts.				CHECKED	TP. KOMATSU	18.02.26
(2) Including temperature rise caused by current carrying.				DESIGNED	HT. ZENBA	18.02.26
Unless otherwise specified, refer to IEC 60512 (JIS C 5402).				DRAWN	EK. KIDO	18.02.26
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-119729-00-00	
<b>HRS</b>	SPECIFICATION SHEET			PART NO.	EF2-D60-1	
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL142-0104-0-00	$\triangle$