


APPLICABLE STANDARD		TÜV, and UL certification planned		
Rating	Operating Temperature Range	-25°C to +105°C ⁽²⁾	Storage Temperature Range	-10°C to +60°C
	Voltage	AC 600V, DC 600V		
	Current 	94A (22mm ² , AWG4 cable) 132A (38mm ² , AWG2 cable) 175A/155 A ⁽⁴⁾ (60mm ² , AWG1/0 cable)	Applicable Cable	22mm ² (AWG4) 38mm ² (AWG2) 60mm ² (AWG1/0)

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 DC 1A.	0.1mΩ 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 2640A applied for 1s. (22mm ² cable) Measured at 4560A applied for 1s. (38mm ² cable) Measured at 7200A applied for 1s. (60mm ² cable) (JIS C 8201)	Contact Resistance: 0.15 mΩ MAX.	X	—


MECHANICAL CHARACTERISTICS

Crimp Contact Insertion and Extraction Forces	Measured with an applicable connector.	Insertion Force: 280N MAX. Extraction Force: 250N MAX.	X	—
Mechanical Operation	Contact Inserted and Extracted 50 times.	1) No function impairing damage, cracks, or looseness of parts. 2) Contact Resistance: 0.15mΩ MAX. 3) Insertion Force: 280N MAX. 4) Extraction Force: 250N MAX.	X	—
Vibration	Frequency: 10 Hz to 500 Hz Single amplitude: 0.75 mm Performed three hours in each of three mutually 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 ² 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	Apply 250N pulling force from cable side. (NECA C 2811)	No damage.	X	—

ENVIRONMENTAL CHARACTERISTICS



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	94A (22mm ² cable), 132A (38mm ² cable), 175A (60mm ² 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: 0.15mΩ MAX. 2) No damage, cracks, or looseness of parts.	X	—

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
 2	DIS-C-00002564	TP. KOMATSU	YH. YAMADA	20181114

Notes (1) Above specifications show the values in assembled condition with applicable crimp contacts. (2) Including temperature rise caused by current carrying. (3) An arbitrary number from 1 to 5 goes into * of Part No.  (4) 155A : TE Connectivity 321868 , UL	APPROVED	YH. YAMADA	20180509
	CHECKED	TP. KOMATSU	20180509
	DESIGNED	WR. AJIRO	20180509
	DRAWN	EK. KIDO	20180509

Unless otherwise specified, refer to IEC 60512 (JIS C 5402).

Note	QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC-119825-00-00
------	---	-------------	------------------

	SPECIFICATION SHEET	PART NO.	EF2-D150-*
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL142  1/1