

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-40°C TO +85°C	STORAGE TEMPERATURE RANGE	- 40°C TO 60 °C	
	VOLTAGE	-	OPERATING HUMIDITY RANGE	85 % MAX.	
	CURRENT	-	APPLICABLE CABLE	Φ8.5±0.3	
SPECIFICATIONS					
ITEM		TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION					
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING		CONFIRMED VISUALLY.		X	X
MECHANICAL CHARACTERISTICS					
MECHANICAL OPERATION		500 TIMES INSERTIONS AND EXTRACTIONS. [WITH FI40B-2015S(※※) INSTALLED]	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
VIBRATION		FREQUENCY 10 TO 500 Hz SINGLE AMPLITUDE 0.75 mm, - m/s ² AT 3h FOR 6 DIRECTIONS.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
SHOCK		490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.		X	-
ENVIRONMENTAL CHARACTERISTICS					
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -40 → 5~35 → 105 → 5~35 °C TIME 30 → 2~3 → 30 → 2~3 min. UNDER 10 CYCLES.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
DAMP HEAT/ CURRENT CARRYING		MATED CONNECTOR WITH CONTACTS CONNECTED IN SERIES. EXPOSED WITH CURRENT CARRYING AT TEMPERATURE 85°C, HUMIDITY 85% FOR 1000h. (LEAVE AT ROOM TEMPERATURE FOR 2h AFTER TESTING) [WITH FI40B-2015S(※※) INSTALLED]	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
DRY HEAT/ CURRENT CARRYING		MATED CONNECTOR WITH CONTACTS CONNECTED IN SERIES. EXPOSED WITH CURRENT CARRYING AT TEMPERATURE 105°C, FOR 1000h. (LEAVE AT ROOM TEMPERATURE FOR 2h AFTER TESTING) [WITH FI40B-2015S(※※) INSTALLED]	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
COLD RESISTANCE		LEAVE AT -40 °C, FOR 500h LEAVE AT 5 TO 30°C FOR 1 TO 2HOURS AFTER TESTING.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
CORROSION SALT MIST		EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.	NO HEAVY CORROSION.	X	-
MIXED GAS		SULFUR DIOXIDE : 10 PPM HYDROGEN SULFIDE : 3 PPM TEMPERATURE : 40±2 °C HUMIDITY : 70 - 80 % EXPOSED FOR 96 h	NO HEAVY CORROSION.	X	-
MACHINING OIL		SOAK IN MACINING OIL AT TEMPERATURE 85 °C, FOR 100h TESTED WITH 3 DIFFERENT OILS SEPARATELY : UNISOLUBLE HD, UNISOLUBLE CC ANDUNICUT, TB15	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
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REMARK			APPROVED	YH. ENAMI	10. 04. 12
			CHECKED	YH. ENAMI	10. 04. 12
			DESIGNED	K.I. NAGANUMA	10. 04. 12
			DRAWN	K.I. NAGANUMA	10. 04. 12
Unless otherwise specified, refer to JIS C 5402.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-122395-01
HRS	SPECIFICATION SHEET		PART NO.	FI-2015-CVS (50)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL230-0530-2-50	△ 1/1