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	Φ9.2±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 FI30-20S 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℃, HUMIDITY 85% FOR 1000h. (LEAVE AT ROOM TEMPERATURE FOR 2h AFTER TESTING) (WITH FI30-20S INSTALLED)			
DRY HEAT/ CURRENT CARRYING	MATED CONNECTOR WITH CONTACTS CONNECTED IN SERIES. EXPOSED WITH CURRENT CARRYING AT TEMPERATURE 105℃, FOR 1000h. (LEAVE AT ROOM TEMPERATURE FOR 2h AFTER TESTING) (WITH FI30-20S INSTALLED)			
COLD RESISTANCE	LEAVE AT -40 ℃, FOR 500h LEAVE AT 5 TO 30℃ FOR 1 TO 2HOURS AFTER TESTING.			
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 ℃ HUMIDITY : 70 – 80 % EXPOSED FOR 96 h			
MACHINING OIL	SOAK IN MACINING OIL AT TEMPERATURE 85 ℃, 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
A					

REMARK

Unless otherwise specified, refer to JIS C 5402.

APPROVED	YH. ENAMI	10. 02. 26
CHECKED	HO. MIWA	10. 02. 26
DESIGNED	YH. MAMADA	10. 02. 25
DRAWN	YH. MAMADA	10. 02. 25

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-122397-01

HRS	SPECIFICATION SHEET	PART NO.	FI-20-CVS5(50)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL230-0532-8-50	A 1/1

FORM HD0011-2-1