

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-30°C TO + 85°C (NOTE 1)	STORAGE TEMPERATURE RANGE	-10°C TO + 60°C
	VOLTAGE	100V AC	APPLICABLE CONNECTOR	DF20A-*DS-1C
	CURRENT	AWG28 : 1A AWG30 : 0.9A	APPLICABLE CABLE	AWG28~AWG30 JACKET DIAMETER 0.6MAX

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
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	MAX20mV, 1mA (DC OR 1000 Hz).	30mΩ MAX.	X	-
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND EXTRACTION FORCE	□0.5±0.002 BY STEEL GAUGE.	INSERTION FORCE 2N MAX EXTRACTION FORCE 0.2N MIN	X	-
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 30mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
CLIMP TENSILE STRENGTH	APPLY WIRE TENSILE STRENGTH TO CAULKING AREA AXIALLY UNTIL WIRE BECOME LOOSEN OR BREAKDOWN.	AWG28 10N MIN AWG30 8N MIN	X	-
ENVIRONMENTAL CHARACTERISTICS				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→ 5 TO 35→ 85→ 5 TO 35 °C TIME 30→10 TO 15→30→10 TO 15 min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 30mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.	① CONTACT RESISTANCE: 30mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48h.	NO HEAVY CORROSION.	X	-
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96h (TEST STANDARD:JEIDA-39)	NO HEAVY CORROSION.	X	-

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE

REMARKS NOTE 1:INCLUDING THE TEMPERATURE RISE BY CURRENT Unless otherwise specifid , refer to JIS C 5402.	APPROVED	TS. SAKATA	08.06.12
	CHECKED	TS. KUMAZAWA	08.06.12
	DESIGNED	TH. YOSHI ZAWA	08.06.12
	DRAWN	TH. YOSHI ZAWA	08.06.12

Note QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC4-164278-01
--	-------------	----------------

HRS	SPECIFICATION SHEET	PART NO.	DF20F-2830SCFA (04)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL686-0042-6-04	1/1