





APPLICABLE STANDARD		UL approved (E52653).			
RATING	OPERATING TEMPERATURE RANGE	-25℃ TO +85℃	STORAGE TEMPERATURE RANGE	-10℃ TO +60℃	
	VOLTAGE 	AC 125 V , DC 175 V AC 175 V , DC 175 V (UL)	WIRE SIZE	MAX AWG#20	
	CURRENT	5 A	APPLICABLE CABLE	φ5±0.2	
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	CONTACT SHALL BE MEASURED AT DC 1 A		15 mΩ MAX.	X	X
	CONTACT SHALL BE MEASURED AT DC — A		— mΩ MAX.	—	—
INSULATION RESISTANCE	500 V DC.		1000 MΩ MIN.	X	X
VOLTAGE PROOF	1250 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	X	X
MECHANICAL CHARACTERISTICS					
CONTACT INSERTION AND WITHDRAWAL FORCES	φ0.68 <sup>+0.003</sup> <sub>0</sub> BY STEEL GAUGE.		INSERTION AND WITHDRAWAL FORCES : 0.2 N MIN.	X	—
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR WITHOUT LOCKING DEVICE.		INSERTION AND WITHDRAWAL FORCES : 25 N MAX.	X	—
MECHANICAL OPERATION	1000 TIMES INSERTIONS AND EXTRACTIONS.		CONTACT RESISTANCE: 30 mΩ MAX.	X	—
			— RESISTANCE: — mΩ MAX.	—	—
VIBRATION	FREQUENCY 10 → 55 → 10 (Hz) (1CYC, 5min), SINGLE AMPLITUDE 0.75 mm, AT 10 CYC, FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	—
SHOCK	IN OPPOSITE DIRECTIONS OF EATH 3 DIMENSION AXIS FOR 3 TIMES AT 490 m/s <sup>2</sup> DURATIONS OF PULSE 11 ms.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	—
BREAKING STRENGTH	MAX 100 N SHALL BE APPLIED TO CABLE IN UP AND DOWN, LEFT AND RIGHT DIRECTIONS WHEN MATED.		NO BREAKAGE MAX 100 N.	X	—
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ℃, 90 TO 95 %, 96 h.		① INSULATION RESISTANCE: 10 MΩ MIN (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 100 MΩ MIN (AT DRY). ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → R/T <sup>(1)</sup> → +85 → R/T ℃ TIME 30 → 2 TO 3 → 30 → 2 TO 3 min UNDER 5 CYCLES.		① INSULATION RESISTANCE: 100 MΩ MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		NO HEAVY CORROSION RUIN THE FUNCTION.	X	—
DRY HEAT	EXPOSED AT +85 ℃ , 96 h.		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
COLD	EXPOSED AT -55 ℃ , 96 h.		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, +350±10 ℃, FOR IMMERSION DURATION, 5±1 s.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, +350±10 ℃ FOR IMMERSION DURATION, 2 TO 3 s.		SOLDER SURFACE TO BE FREE FROM PIN-HOLE. NO WETTING AND OTHER DEFECTS.	X	—
SEALING	EXPOSED AT A DEPTH OF 1.8 m FOR 48 h.		NO WATER PENETRATION INSIDE CONNECTOR.	X	—
AIR TIGHTNESS	APPLY AIR PRESSURE 17.6 kPa FOR 0.5 min TO INSIDE CONNECTOR.		NO AIR BUBBLES INSIDE CONNECTOR.	X	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
	1	DIS-C-00003656	KN. IKEHARA	HN. TANAKA	20191114
REMARK			APPROVED	HY. KOBAYASHI	20180315
NOTE(1) R/T : ROOM TEMPERATURE			CHECKED	HY. KOBAYASHI	20180315
			DESIGNED	TY. SUZUKI	20180315
Unless otherwise specified, refer to IEC 60512.(JIS C 5402)			DRAWN	TY. SUZUKI	20180315
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-114146-31-00	
	SPECIFICATION SHEET		PART NO.	LF07WBP-3S (31)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL136-0003-7-31	 1/1