

APPLICABLE STANDARD		UL approved (E52653).				
RATING	OPERATING TEMPERATURE RANGE	-25°C TO +85°C		STORAGE TEMPERATURE RANGE	-10°C TO +60°C	
	VOLTAGE $\Delta$	AC 125 V , DC 175 V AC 175 V , DC 175 V (UL)		WIRE SIZE	MAX AWG#20	
	CURRENT	5 A		APPLICABLE CABLE	$\phi 5 \pm 0.2$	
<b>SPECIFICATIONS</b>						
ITEM		TEST METHOD		REQUIREMENTS	QT	AT
<b>CONSTRUCTION</b>						
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	X	X
MARKING		CONFIRMED VISUALLY.			X	X
<b>ELECTRIC CHARACTERISTICS</b>						
CONTACT RESISTANCE		CONTACT SHALL BE MEASURED AT DC 1 A		15 m $\Omega$ MAX.	X	X
		CONTACT SHALL BE MEASURED AT DC — A		— m $\Omega$ MAX.	—	—
INSULATION RESISTANCE		500 V DC.		1000 M $\Omega$ MIN.	X	X
VOLTAGE PROOF		1250 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	X	X
<b>MECHANICAL CHARACTERISTICS</b>						
CONTACT INSERTION AND WITHDRAWAL FORCES		$\phi 0.68 \begin{smallmatrix} +0.003 \\ 0 \end{smallmatrix}$ 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 m $\Omega$ MAX. — RESISTANCE: — m $\Omega$ MAX.	X	—
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 $\mu$ s. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	—
SHOCK		IN OPPOSITE DIRECTIONS OF EACH 3 DIMENSION AXIS FOR 3 TIMES AT 490 m/s <sup>2</sup> DURATIONS OF PULSE 11 ms.		① NO ELECTRICAL DISCONTINUITY OF 10 $\mu$ s. 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	—
<b>ENVIRONMENTAL CHARACTERISTICS</b>						
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 °C, 90 TO 95 %, 96 h.		① INSULATION RESISTANCE: 10 M $\Omega$ MIN (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 100 M $\Omega$ 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 °C TIME 30 → 2 TO 3 → 30 → 2 TO 3 min UNDER 5 CYCLES.		① INSULATION RESISTANCE: 100 M $\Omega$ 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 °C , 96 h.		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
COLD		EXPOSED AT -55 °C , 96 h.		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
RESISTANCE TO SOLDERING HEAT		SOLDER TEMPERATURE, +350 $\pm$ 10 °C, FOR IMMERSION DURATION, 5 $\pm$ 1 s.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, +350 $\pm$ 10 °C 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	
$\Delta$	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		
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	LF07WBP-3S(31)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL136-0003-7-31	$\Delta$	1/1