

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	1 -55 °C TO 85 °C	STORAGE TEMPERATURE RANGE	2 -55 TO 60 °C			
	VOLTAGE	300V AC , 420V DC	OPERATING HUMIDITY RANGE	95 % max			
	CURRENT	3 A	APPLICABLE CABLE	—			
SPECIFICATIONS							
ITEM		TEST METHOD		REQUIREMENTS			
CONSTRUCTION							
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.			
MARKING		CONFIRMED VISUALLY.					
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE		1 A MAX (DC OR 1000 Hz).		7 mΩ MAX.	X X		
INSULATION RESISTANCE		500 V DC.		1000 MΩ MIN.	X X		
VOLTAGE PROOF		1000 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	X X		
MECHANICAL CHARACTERISTICS							
CONTACT INSERTION AND EXTRACTION FORCES	MAX ϕ 1.041mm BY STEEL GAUGE		INSERTION OR EXTRACTION FORCE 3.33 N MAX		X —		
	MIN ϕ 0.991mm BY STEEL GAUGE		INSERTION OR EXTRACTION FORCE 0.28 N MIN				
MECHANICAL OPERATION		1000 TIMES INSERTIONS AND EXTRACTIONS.		1)CONTACT RESISTANCE : 10 mΩ MAX. 2)NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X —		
VIBRATION		FREQUENCY 10 TO 55 Hz, TOTAL AMPLITUDE 1.5mm, AT 2 h, FOR 3 DIRECTIONS.		1)NO ELECTRICAL DISCONTINUITY OF 10 μs. 2)NO DAMAGE, CRACK AND LOOSENESS OF PARTS	X —		
SHOCK		490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.					
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR		44 N MAX	X —		
ENVIRONMENTAL CHARACTERISTICS							
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -65 → 5~35 → 125 → 5~35 °C TIME 30 → 2~3 → 30 → 2~3 min UNDER 5 CYCLES		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X —		
DAMP HEAT (STEADY STATE)		EXPOSED AT 25 ~ 65 °C, 90 ~ 98 %RH, FOR 240 h.		1)INSULATION RESISTANCE 1 MΩ MIN.(AT HIGH HUMIDITY) 1000 MΩ MIN. (AT DRY) 2)NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X —		
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		NO HEAVY CORROSION.	X —		
1 THE OPERATION TEMPERATURE INCLUDES THE TEMPERATURE RISE BY CURRENT CARRYING.							
2 STORAGE TEMPERATURE RANGE SHOWS STORAGE CONDITION FOR UNUSED PRODUCTS INCLUDING PACKING MATERIALS. FOLLOW THE OPERATING TEMPERATURE RANGE FOR STORAGE CONDITION AFTER MOUNTING.							
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE		
△							
REMARK			APPROVED	EJ.WAKATSUKI	13.09.24		
			CHECKED	EJ.WAKATSUKI	13.09.24		
			DESIGNED	TS.ITO	13.09.24		
			DRAWN	TS.ITO	13.09.24		
Unless otherwise specified, refer to JIS C 5402.							
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-007706-01		
HRS	SPECIFICATION SHEET		PART NO.	SD-1616A(09)			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL216-0381-8-09	△ 1/1		