

APPLICABLE STANDARD							
RATING	Operating Temperature Range ⁽²⁾	-40 °C TO +105 °C		Storage Temperature Range	-10 °C TO +60 °C		
	Voltage			Applicable Cable ⁽¹⁾	① Conductor area: 3.3 to 5.5 mm ² (AWG#10 to #12) ② Conductor diameter : φ 3.1 MAX ③ Jacket diameter : φ 6 MAX		
	Current ⁽⁴⁾	20A(UL, TÜV) 24A(Ambient Temperature 25°C)					
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SPECIFICATIONS							
ITEM		TEST METHOD		REQUIREMENTS		QT	AT
CONSTRUCTION							
General Examination		Examined visually and with a measuring instrument.		According to the drawing.		X	X
Marking		Confirmed visually.				X	X
ELECTRICAL CHARACTERISTICS							
Contact Resistance		Measured at DC 1 A MAX		2 mΩ MAX.		X	X
MECHANICAL CHARACTERISTICS							
Contact Insertion and Extraction Forces		Measured with a φ3.58±0.003 steel gauge.		Insertion and extraction force 0.8 N MIN.		X	—
<div><div><div>HR41-3 contact Derating curve</div><div><div><div>Current [A]</div><div>50.00 45.00 40.00 35.00 30.00 25.00 20.00 15.00 10.00 5.00 0.00</div><div>010203040506070</div><div>Ambient Temperature [°C]</div></div><div><div>Basic Curve</div><div>Darating Curve</div></div></div></div></div>							
<div>Notes</div> <div><div>(3) The derating curve is derived from the basic curve multiplied by the derating factor of 0.8.</div><div>(4) The value of rated current varies with the ambient temperature. It is recommended to use the product within the derating curve zone. When using a UL or TÜV approved product, please use the product within the specified range as well as the derating curve area.</div><div>(5) The measurement method of the derating curve is shown below.<ul style="list-style-type: none">Test specimen: This product, unused prior to testing.Test cable conductor cross sectional area : AWG#10 (5.5mm²)Test condition: Power supplied while the specimen is in a stationary state and then measured.</div></div>							
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE	
<div></div>	2	DIS-C-00001396		TY.SUZUKI	HY.KOBAYASHI	17.01.30	
Notes (1) The applicable cable should satisfy all conditions ① to ③. (2) Includes temperature rise due to current carrying. Unless otherwise specified, refer to IEC 60512(JIS C 5402)				APPROVED	SU.OBARA	12.03.15	
				CHECKED	SU.OBARA	12.03.15	
				DESIGNED	HT.ZENBA	12.03.14	
				DRAWN	HT.ZENBA	12.03.14	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC4-117433-01	
<div>HR</div>	SPECIFICATION SHEET			PART NO.	HR41-SC-111(01)		
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL141-0001-7-01		
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