Mar.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-40 ℃ TO +105 ℃ INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING	STORAGE TEMPERATURE RANGE	1 -40 ℃ TO +60 ℃
	VOLTAGE	300 V AC DC	CURRENT	5 A/1pin
	APPLICABLE CABLE	AWG 18 TO 28		

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
ELECTRICAL CHARACTERISTICS				
CONTACT RESISTANCE	100 mA(DC OR 1000 Hz)	35 mΩ MAX.	X	X
INSULATION RESISTANCE	250 V DC.	5000 MΩ MIN.	X	—
VOLTAGE PROOF	1000 V AC, FOR 60 sec.	NO FLASHOVER OR BREAKDOWN.	X	—
MECHANICAL CHARACTERISTICS				
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE : 250 N MAX. EXTRACTION FORCE : 250 N MAX.	X	—
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS AT THE SPEED OF LESS THAN 600 TIMES PER 1 HOUR.	1) CONTACT RESISTANCE 40 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
VIBRATION	FREQUENCY 10 TO 55 Hz SINGLE AMPLITUDE 0.75 mm, FREQUENCY PACE OF CHANGE 5 OCTAVE/min, AT 10 CYCLES FOR 3 DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF 10 μs. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
SHOCK	490 m/s2 DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		X	—
ENVIRONMENTAL CHARACTERISTICS				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -40 → +105 ℃ TIME 30 → 30 min. UNDER 5 CYCLES. AFTER : 1TO2 hours AT AMBIENT TEMPERATURES AND HUMIDITY.	1) CONTACT RESISTANCE 40 mΩ MAX. 2) INSULATION RESISTANCE: 1000 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 ℃, 90TO95 %RH, FOR 96 hours . AFTER : 1TO2 hours AT AMBIENT TEMPERATURES AND HUMIDITY. (COMBINE THE APPLICABLE CONNECTORS)		X	—
DRY HEAT	EXPOSED AT 105±2 ℃ FOR 96 hours. AFTER : 1TO2 hours AT AMBIENT TEMPERATURES AND HUMIDITY. (COMBINE THE APPLICABLE CONNECTORS)		X	—
COLD	EXPOSED AT -40±2 ℃ FOR 96 hours. AFTER : 1TO2 hours AT AMBIENT TEMPERATURES AND HUMIDITY. (COMBINE THE APPLICABLE CONNECTORS)		X	—
CORROSION SALT MIST	EXPOSED IN 5±1 % SALT WATER , 35±2 ℃ FOR 72±4 hours. AFTER : WET-CLEAN, 24 hours AT AMBIENT TEMPERATURES AND HUMIDITY. (COMBINE THE APPLICABLE CONNECTORS)	NO HEAVY CORROSION INCLUDING DAMAGE OF CONNECTOR FUNCTION.	X	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
⚠0					

REMARK 1 STORAGE TEMPERATURE RANGE SHOWS STORAGE CONDITION FOR UNUSED PRODUCTS INCLUDING PACKING MATERIALS. FOLLOW THE OPERATING TEMPERATURE RANGE FOR STORAGE CONDITION AFTER MOUNTING.

Unless otherwise specified, refer to JIS C 5402.

APPROVED	RI.TAKAYASU	12.10.30
CHECKED	EJ.WAKATSUKI	12.10.30
DESIGNED	TS.ITO	12.10.27
DRAWN	TS.ITO	12.10.27

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-128115-00

HRS	SPECIFICATION SHEET	PART NO.	PS2-18SC	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL236-1050-0-00 ⚠0	1/1

FORM HD0011-2-1