

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-30°C TO +80°C	VOLTAGE		AC 100 V
	STORAGE TEMPERATURE RANGE	-40°C TO +85°C	CURRENT	SIGNAL CONTACT	0.5 A
	OPERATING HUMIDITY RANGE	5% TO 95%		POWER CONTACT	1 A (UNSELECTED 4 CONTACTS)
	APPLICABLE CABLE	OUTER DIAMETER OF CABLE ϕ 5.8 MAX			
SPECIFICATIONS					
ITEM	TEST METHOD		REQUIREMENTS		QT AT
CONSTRUCTION					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		X X
MARKING	CONFIRMED VISUALLY.				
ELECTRICAL CHARACTERISTICS					
CONTACT RESISTANCE	100 mA MAX (DC OR 1000 Hz).		60 m Ω MAX.		X —
INSULATION RESISTANCE	250 V DC.		1000 M Ω MIN.		X —
VOLTAGE PROOF	350 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		X X
MECHANICAL CHARACTERISTICS					
LOCK STRENGTH	APPLYING A PULL FORCE 49 N MAX, TO THE CABLE AXIALLY		①DURING APPLYING, MATING COMPLETELY. ②AFTER APPLYING, NO DEFECT OF MATING PART.		X —
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR. (NOT INCLUDE LOCK)		1.9 ~ 29.4 N RECEPTACLE : ST60-18P(50)		X —
MECHANICAL OPERATION	10000 TIMES INSERTIONS AND EXTRACTIONS.		①CONTACT RESISTANCE : 100m Ω MAX ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X —
VIBRATION	FREQUENCY 10 TO 55 Hz SINGLE AMPLITUDE 0.75 mm AT 2 h FOR 3 DIRECTIONS.		①NO ELECTRICAL DISCONTINUITY OF 10 μ s ②CONTACT RESISTANCE : 100m Ω MAX ③NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X —
SHOCK	490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.		①NO ELECTRICAL DISCONTINUITY OF 10 μ s ②CONTACT RESISTANCE : 100m Ω MAX ③NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X —
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 \pm 3 °C, 90~95 %, 96 h		①CONTACT RESISTANCE : 100m Ω MAX ②INSULATION RESISTANCE : 10 M Ω MIN ③NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X —
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 \rightarrow 5~35 \rightarrow +85 \rightarrow 5~35 °C TIME 30 \rightarrow 5 \rightarrow 30 \rightarrow 5 min. UNDER 5 CYCLES.		①CONTACT RESISTANCE : 100m Ω MAX ②INSULATION RESISTANCE : 10 M Ω MIN ③NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X —
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		NO HEAVY CORROSION.		X —
RESISTANCE TO SOLDERING HEAT (MANNAL SOLDERING)	SOLDERING POINT OF CONTACTS SOLDERING IRON HEAT OF 350 \pm 10°C,3 \pm 1 sec.		NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		X —
SOLDERBILITY (MANNAL SOLDERING)	SOLDERING POINT OF CONTACTS IMMERSION IN SOLDER BATH OF 280 \pm 10°C,3 \pm 1 sec.		SOLDERING POINT OF CONTACTS IMMERSION IN SOLDER,95% MIN.		X —
REVISIONS					
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
Δ					
REMARK			APPROVED	NM. NISHIMATSU	15. 10. 27
			CHECKED	KN. ICHIKAWA	15. 10. 27
			DESIGNED	TS. IT0	15. 10. 27
			DRAWN	AK. AKIYAMA	15. 10. 27
Unless otherwise specified, refer to IEC 60512.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-126195-30-00
HRS	SPECIFICATION SHEET		PART NO.	ST40X-18S-CV1 (30)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL241-0062-0-30	Δ 1/1