APPLICA	BLE STAN	DARD	IEC 61076-3-124								
Dating	Operating Temperature Range		-40°C to +85°C(95%RH ma. (note1,2)		Storage Te Range	mperature	-30 (note	°C to +60°C(95%RH m 1)			
Rating	Voltage		50.1/40/001/18		Cu	rrent		1.5 A/pin (all pin	)		
			50 V AC / 60 V DC			II OII C		3 A/pin (pin No.1,2,	6,7)		
			SPECI	FICAT	IONS	3					
IT	EM		TEST METHOD			R	EQU	REMENTS	QT	АТ	
CONSTR	RUCTION	•			•				•		
General Examination Examine			visually and with a measuring ins	strument.	Acc	According to drawing.				Х	
Marking Confi			confirmed visually.			According to drawing.				Х	
ELECTR	IC CHARA	CTERI	STICS								
Contact Resis	tance	Measured at 100 mA max (DC or 1000 Hz).				Contact : $30 \text{ m}\Omega$ max. (note3) Shield : $100 \text{ m}\Omega$ max. (note3)					
Insulation Res	istance	Measured	Measured at 500 V DC.			500 MΩ min.					
Voltage Proof		500 V DC	500 V DC applied for 1 min. Current leakage 2mA max.			breakdown.		Â	Х	1-	
Insertion Loss		Measured in the range of 1 to 500 MHz.			(Wh	0.02 $$ (f) dB max. (Whenever the formula results in a value less than				_	
Return Loss		Measured in the range of 1 to 500 MHz.			68 - (Wh	0.1 dB, the requirement shall revert to 0.1 dB.)  68 – 20log(f) dB min.  (Whenever the formula results in a value greater than 30 dB, the requirement shall revert to 30 dB.)			x X	_	
Near end Crosstalk		Measured	Measured in the range of 1 to 500 MHz.			94 – 20log(f) dB min. (1MHz to 250MHz) 46.04 – 30log(f/250) dB min. (250MHz to 500MHz) (Whenever the formula results in a value greater than 75 dB, the requirement shall revert to 75 dB.)				_	
Far end crosst	بالم	Magazirad	in the range of 1 to 500 MHz.			dB, the required in the desired in t		shall revert to 75 dB.)		-	
i ai eiu ciossi	air	Measured	in the range of 1 to 300 MHz.		(Wh	nenever the fo	ormula	results in a value greater than shall revert to 75 dB.)	X	-	
Transverse Conversion Loss Measu			easured in the range of 1 to 500 MHz.			68 – 20log(f) dB min. (Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)				_	
Transverse Conversion M Transfer Loss		Measured in the range of 1 to 500 MHz.			(Wh	68 – 20log(f) dB min.  (Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)				_	
MECHAN	ICAL CHAR	ACTER	ISTICS						<u> </u>		
Insertion and \			A maximum rate of 50 mm/min.			Insertion force 25 N max. Withdrawal force 25 N max.				_	
			by applicable connector.								
Mechanical Operation		5000 times insertions and extractions.  Mating speed : 10 mm/s max.  Rest : 5s, min.(unmated)			Co	1) Resistance: Contact: 80 mΩ max. (note3)			X	_	
						Shield: 100 mΩ max. (note3) 2) No damage, cracks or looseness of parts.					
3. The cable	conductor resista	operation te	mperature includes the temperatu	·	rrent carry	ring		·	1	1	
COUN	IT DES	CRIPTIC	ON OF REVISIONS	DE	SIGNE	SIGNED		CHECKED	DA	ΤE	
<u>^</u> 7		DIS-I	E-00014710	МТ	T.YASUE	DA .		KI.KAGOTANI	2024	0119	
REMARK						APPROVED		RI.TAKAYASU	2017	'0328	
						CHECK		KI.NAGANUMA	2017		
l Inless oth	narwica cna	cified, refer to IEC 60512.				DESIGN				70328	
			surance Test X:Applicable Te	est	DRAV	VING NO.		HT.SATO ELC-129485-0	2017  1 <b>–</b> 00		
			FICATION SHEET					G-A-10S-CV (7. 0)			
HS.	HIR	OSE E	LECTRIC CO., LTD.	С	ODE NO			1-0023-0-01		1/3	

	SPECIFIC/	ATIO	NS					
ITEM	TEST METHOD			REQU	IREMENTS		QT	АТ
Vibration ,sinusoidal	Frequency 10 to 500 Hz		1) No electrical discontinuity of 1µs. (note4)					
	0.35 mm, 50 m/s <sup>2</sup>			amage, cracks o	r looseness of parts.		Х	_
	2hrs in each of 3 mutually perpendicular axis.							
Fretting Corrosion	490 m/s <sup>2</sup> , 30 times/min at 1000 times.		-		nuity of 1µs. (note4)		Х	_
			2) No da	amage, cracks o	r looseness of parts.		^	
Mechanical Shock	Subject mated specimens to 300 m/s² half-sine shoot		1) No electrical discontinuity of 1µs. (note4)			V		
	of 11 milliseconds duration, 3 shocks in both direction mutually perpendicular directions (totally 18 shocks)		2) Resis				Х	
	mutually perpendicular directions (totally 10 shocks)			act : 80 mΩ max				
				ld: 100 mΩ ma				
			3) INO U	amage, cracks o	r looseness of parts.			
Effectiveness of the connector coupling device	Applying 80 N force 60 s for the mating axis direction in state in fitted with applicable connector.			cking, damage, o	cracks or looseness o	f parts.	Χ	
Locking device mechanical	10000 cycles 20 cycles/min max			1) Insertion and Withdrawal Forces				
operations				rtion force 2	25 N max.		X	_
				Withdrawal force 25 N max.				
				No damage, cracks or looseness of parts.				
Wrenching Strength	Applying 25times of 30 N 1s for 2 axis direction on ticase in state in fitted with applicable connector.				Х	_		
ENVIRONMENTAL	. CHARACTERISTICS							
Rapid Change of Temperature	Subject mated specimens to 10 cycles between -55	°C and	1) Volta	ge proof : 500 V	DC applied for 1 min.		Х	
	85°C with 30 minutes dwell at temp. extremes and 2	? to 3	Current leakage 2mA max.					_
	minutes transition between temperatures.		No breakdown.					
			2) Resis					
				act : 80 mΩ max				
				ld : 100 mΩ ma	* *			
				<ul><li>3) Insulation resistance: 500 MΩ min. (at dry)</li><li>4) No damage, cracks or looseness of parts.</li></ul>				
			4) NO 08	amage, cracks o	nooseness of parts.			
Humidity / Temperature	Low temperature 25 °C;		1) Volta	ge proof : 500 V	DC applied for 1 min.		Х	
Cycling	High temperature 65 °C;			nt leakage 2mA	• •			
	Cold sub-cycle - 10 °C;			eakdown.		$\triangle$		
	Relative humidity 93 %		2) Resis	stance:		<b>∕</b> 3\		
	Duration 10 / each 24 h		Cont	act : 80 mΩ max	c. (note3)			
	(IEC 60068-2-38,test Z / AD)		Shie	ld : 100 mΩ ma	ax. (note3)			
			,		500 M $\Omega$ min. (at dry)			
				tion and Withdra	wal Forces 25 N max.			
				Withdrawal force 25 N max.  5) No damage, cracks or looseness of parts.				
			0) 140 ac	arriago, cracks o	nooseness of parts.			
Damp Heat, Steady State	Subject mated specimens to a relative humidity of 93 % at a		1) Voltage proof : 500 V DC applied for 1 min.				Χ	
	temperature of 40°C during 21 days.			Current leakage 2mA max.				
			No br	eakdown.		201		
			2) Resis	tance:				
				Contact : 80 mΩ max. (note3)				
			Shield : 100 mΩ max. (note3)					
			3) Insulation resistance: 500 MΩ min. (at dry)					
			Insertion and Withdrawal Forces     Insertion force					
				Withdrawal force 25 N max.				
					r looseness of parts.			
Note QT:Qualification Te	AT:Assurance Test X:Applicable Test D		RAWING NO. ELC-129485-0		·85-0	1-00	)	
<b>HS</b> s	PECIFICATION SHEET	PART	NO.	IX310	G-A-10S-CV (7	7. 0) (	01)	
	OSE ELECTRIC CO., LTD.	CODE	E NO	CL025	1-0023-0-01	/	\$ 2	2/3
OPM HD0011 2 2	ROSE ELECTRIC CO., LTD.	CODE	E NO	UL025	1-0023-0-01		3/	_

	SPECIFICATIO			
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
ENVIRONMENTAL	CHARACTERISTICS	,		
Ory Heat	Subject to +85 ± 2 °C, 21 days.  (mating applicable connector)	1) Voltage proof: 500 V DC applied for 1 min.  Current leakage 2mA max.  No breakdown.  2) Resistance:  Contact: 80 mΩ max. (note3)  Shield: 100 mΩ max. (note3)  3) Insulation resistance: 500 MΩ min. (at dry)  4) Insertion and Withdrawal Forces  Insertion force 25 N max.  Withdrawal force 25 N max.  5) No damage, cracks or looseness of parts.	X	
Cold	Subject to -55 ± 3 °C, 10 days. (mating applicable connector)	1) Voltage proof: 500 V DC applied for 1 min.  Current leakage 2mA max.  No breakdown.  2) Resistance:  Contact: 80 mΩ max. (note3)  Shield: 100 mΩ max. (note3)  3) Insulation resistance: 500 MΩ min. (at dry)  4) Insertion and Withdrawal Forces  Insertion force 25 N max.  Withdrawal force 25 N max.  5) No damage, cracks or looseness of parts.	X	1
Corrosion Salt Mist	Subject to 5 % salt water, 35 ± 2 °C, 48h.  (leave under unmated condition.)	No heavy corrosion of contacts.	Х	_
Mixed Flowing Gas Corrosion	Test temperature: $\pm 25\pm 1$ °C, Relative humidity: $\pm 75\pm 3$ % H <sub>2</sub> S: $\pm 10\pm 5$ ppb, NO <sub>2</sub> : $\pm 200\pm 50$ ppb Cl <sub>2</sub> : $\pm 10\pm 5$ ppb, SO <sub>2</sub> : $\pm 200\pm 20$ ppb Leave the samples for 4 days with mated. The same is performed with unmated samples. (IEC 60512, method 4)	<ol> <li>Resistance:         Contact: 80 mΩ max. (note3)         Shield: 100 mΩ max. (note3)</li> <li>No damage, cracks or looseness of parts.</li> </ol>	Х	_

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-129485-01-00			
HS	<b>LRG</b> SPECIFICATION SHEET		IX31G-A-10S-CV (7. 0) (01)				
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL025	1-0023-0-01	<u>\$</u>	3/3	