		RD	TUV approved (J503853						
	Operating Temperature		-40 °C to +105 °C (5) Range Power Contact : AC/DC 1500 V		Storage Temperature Range		-10°C to +60°C		
D-+!	Temperature Range							_	
Rating	Voltage		Signal Contact : AC/DC	250 V			100		
	Current		Power Contact : 200 A (3) Signal Contact : 1 A		Applica	Applicable Cable 100 mm <sup>2</sup> min (AWG#4/0 mi		`	
		l	5				(AWG#4/011111)	)	
	TEM	TEST METHOD			REQUIREMENTS		QT	A٦	
CONSTRU		<u> </u>						1.11	
General Exam	nination	Examined visually and with a measuring instrument.			Accord	ling to the drawing	g.	Х	Х
Marking		Confirmed	, ,					Х	Х
ELECTRIC	CAL CHARAC	TERISTIC	CS					Х	
Contact Resis	stance(2)	Measured a	Measured at DC 1A.(Power contact)			0.5 mΩ MAX.			X
	• .	Measured at DC 1A.(Signal contact include GT8E-2S-2C)			-	90 mΩ MAX.			X
Insulation Res Voltage Proof		Measured at 500 V DC. 4500 V AC applied for 1 min. (Power contact)				5000 MΩ MIN. No breakdown.			X
		750 V AC applied for 1 min. (Signal contact)							X
	CAL CHARA							Х	
					Mating	and unmating for		Х	I _
Mating and Unmating Forces		Measured with an applicable connector.				Mating and unmating forces: 100 N MAX. (Between EM30MSD-A Plug and Receptacle)			1
		Without locking device.				Contact resistance: $0.75 \text{ m}\Omega \text{ MAX}$ . (Power contact)			<u> </u>
		Mated and unmated 200 times.				Contact resistance: $0.75 \text{ m}\Omega$ MAX. (Power contact) Contact resistance: $150 \text{ m}\Omega$ MAX.			
Mechanical Operation		(Between EM30MSD-A Plug and Receptacle)				(Signal contact inclede GT8E-2S-2C)			1
		Mated and unmated 30 times.			, ,	Contact resistance : 150 mΩ MAX			1 –
		(Between EM30MSD-A Receptacle and GT8E-2S-2C)			(Signal	(Signal contact inclede GT8E-2S-2C)			
Vibration 1		Frequency: 10 Hz to 55 to 10 Hz every cycle (5 min per cycle)			ycle) 1) No	electrical discontir	nuity of more than 10 $\mu$ s.		
		Single amplitude: 0.75 mm			2) No	damage, cracks o	r looseness of parts.	Х	_
			over 10 cycles in each of three	mutually					
Viberations O (		perpendicular directions.					<u>'i ( ii io</u>	_	
Vibration 2 ( (ISO16750-3 / J	· /	Frequency : 10 TO 2000 (Hz),				) No electrical discontinuity of more than 10 μs.			_
		Acceleration spectrum density : 57.9 m/s <sup>2</sup> , At 8 h, for 3 directions.			2) NO	damage, cracks o	r looseness of parts.		
Shock		Acceleration: 490 m/s <sup>2</sup> , Half sine wave pulses of 11 ms.			1) No	electrical discontir	nuity of more than 10 µs.		
			Performed 3 times in each of three mutually perpendicular			2) No damage, cracks or looseness of parts.			-
		directions.							
ENVIRON	MENTAL CH	ARACTEF	RISTICS						
Rapid Change	e of Temperature	Temperatu	$\text{ re: -40 } \rightarrow \text{ R/T}^{(1)} \rightarrow \text{ +125} \rightarrow \text{ R}$	/T °C	1) Insu	lation resistance:	5000 MΩ MIN.	Х	-
		Time: 30 -	$\rightarrow$ 2 to 3 $\rightarrow$ 30 $\rightarrow$ 2 to 3 min		2) No	2) No damage, cracks or looseness of parts.			
		for 5 cycles	δ.						
	Damp Heat, Steady State		to a temperature of +40°C, at a	humidity of 90	.0	1) Insulation resistance: 50 M $\Omega$ MIN.			-
Damp Heat, S			95% for 96 hours.			(At high humidity)			
Damp Heat, S	,	95% for 96	hours.		2) Inc.	2) Insulation resistance: 500 M $\Omega$ MIN. (When dry)			
Damp Heat, S	,	95% for 96	hours.		ŕ				
					3) No	damage, cracks o	r looseness of parts.	x	_
Corrosion Salt		Subjected 1	to 5% salt spray for 48 hours.		3) No No hea	damage, cracks o avy corrosion whic	r looseness of parts. ch impairs functionality.	x	-
		Subjected t	to 5% salt spray for 48 hours. to a depth of 2 m for 14 days.		3) No No hea	damage, cracks o	r looseness of parts. ch impairs functionality.		
Corrosion Salt Sealing(4)	t Mist(4)	Subjected t Subjected t (IPX8 Wate	to 5% salt spray for 48 hours. to a depth of 2 m for 14 days. erproof)(JIS C 0920:2003)	de of the mate	3) No No hea No wa	damage, cracks o avy corrosion whic ter penetration int	r looseness of parts. ch impairs functionality. o the connector.		
Corrosion Salt Sealing(4)	t Mist(4)	Subjected 1 Subjected 1 (IPX8 Wate 17.6 kPa of	to 5% salt spray for 48 hours. to a depth of 2 m for 14 days. erproof)(JIS C 0920:2003) f air pressure applied to the insi	de of the mater	3) No No hea No wa d No air	damage, cracks o avy corrosion whic ter penetration int bubbles emitted f	r looseness of parts. ch impairs functionality.		
Corrosion Salt	t Mist(4)	Subjected 1 Subjected 1 (IPX8 Wate 17.6 kPa of	to 5% salt spray for 48 hours. to a depth of 2 m for 14 days. erproof)(JIS C 0920:2003)	de of the mater	3) No No hea No wa	damage, cracks o avy corrosion whic ter penetration int bubbles emitted f	r looseness of parts. ch impairs functionality. o the connector.	x	-
Corrosion Salt Sealing(4)	t Mist(4) (4)	Subjected f Subjected f (IPX8 Wate 17.6 kPa of connector f	to 5% salt spray for 48 hours. to a depth of 2 m for 14 days. erproof)(JIS C 0920:2003) f air pressure applied to the insi	1	3) No No hea No wa d No air	damage, cracks o avy corrosion whic ter penetration int bubbles emitted f	r looseness of parts. ch impairs functionality. o the connector.	x	-
Corrosion Salt Sealing(4) Air Tightness(	t Mist(4) (4)	Subjected f Subjected f (IPX8 Wate 17.6 kPa o connector f	to 5% salt spray for 48 hours. to a depth of 2 m for 14 days. erproof)(JIS C 0920:2003) f air pressure applied to the insi for 30 seconds.	1	3) No No hei No wa d No air conne	damage, cracks o avy corrosion whic ter penetration int bubbles emitted f	r looseness of parts. ch impairs functionality. o the connector. rom the inside of the	x	_
Corrosion Salt Sealing(4) Air Tightness( COUN	t Mist(4) (4)	Subjected f Subjected f (IPX8 Wate 17.6 kPa o connector f	to 5% salt spray for 48 hours. to a depth of 2 m for 14 days. erproof)(JIS C 0920:2003) f air pressure applied to the insi for 30 seconds.	1	3) No No hei No wa d No air conne	damage, cracks o avy corrosion which ter penetration int bubbles emitted f ctor.	r looseness of parts. ch impairs functionality. o the connector. rom the inside of the CHECKED	X X DA	- .TE
Corrosion Salt Sealing(4) Air Tightness( COUN COUN REMARK	t Mist(4) (4) NT DE	Subjected f Subjected f (IPX8 Wate 17.6 kPa o connector f ESCRIPTIC DIS-A	to 5% salt spray for 48 hours. to a depth of 2 m for 14 days. erproof)(JIS C 0920:2003) f air pressure applied to the insi for 30 seconds.	1	3) No No hei No wa d No air conne	damage, cracks o avy corrosion whic ter penetration int bubbles emitted f	r looseness of parts. ch impairs functionality. o the connector. rom the inside of the	x	- .TE
Corrosion Salt Sealing(4) Air Tightness( COUN A REMARK Notes (1) R/T	t Mist(4) (4) (4) IT DI EXPLOSE Second Temperative	Subjected f Subjected f (IPX8 Wate 17.6 kPa of connector f ESCRIPTIC DIS-A	to 5% salt spray for 48 hours. to a depth of 2 m for 14 days. erproof)(JIS C 0920:2003) f air pressure applied to the insi for 30 seconds. DN OF REVISIONS A-00071617	DI	3) No No hei No wa d No air conne	damage, cracks o avy corrosion which ter penetration int bubbles emitted f ctor.	r looseness of parts. ch impairs functionality. o the connector. rom the inside of the CHECKED	X X DA	
Corrosion Salt Sealing(4) Air Tightness( COUN A REMARK Notes (1) R/T (2) Mea	t Mist(4) (4) JT Df : Room Tempera asured contact re	Subjected f Subjected f (IPX8 Wate 17.6 kPa o connector f ESCRIPTIC DIS-A	to 5% salt spray for 48 hours. to a depth of 2 m for 14 days. erproof)(JIS C 0920:2003) f air pressure applied to the insi for 30 seconds. DN OF REVISIONS A-00071617 he points shown in Fig.1 on the	DI	3) No No hei No wa d No air conne	damage, cracks o avy corrosion which ter penetration int bubbles emitted f ctor.	r looseness of parts. ch impairs functionality. o the connector. rom the inside of the CHECKED TP. KOMATSU	X X DA 2022	
Corrosion Salt Sealing(4) Air Tightness( COUN AIR COUN COUN COUN COUN COUN COUN COUN COUN	t Mist(4)  4)  T Df  : Room Tempera asured contact re aying curve show	Subjected f Subjected f (IPX8 Wate 17.6 kPa of connector f ESCRIPTIC DIS-A ature sistance at th n in Fig.2 on	to 5% salt spray for 48 hours. to a depth of 2 m for 14 days. erproof)(JIS C 0920:2003) f air pressure applied to the insi for 30 seconds. DN OF REVISIONS A-00071617 he points shown in Fig.1 on the the next page.	DI	3) No No hea No wa d No air conne ESIGNED	damage, cracks o avy corrosion which ter penetration int bubbles emitted f ctor.	r looseness of parts. ch impairs functionality. o the connector. rom the inside of the CHECKED TP. KOMATSU	X X DA 2022	TE 0808
Corrosion Salt Sealing(4) Air Tightness( COUN Air Tightness( COUN AIR COUN (2) Mea (3) Dela (4) Cor	t Mist(4)  (4)  • Room Tempera asured contact re aying curve show rosion salt mist, §	Subjected ti (IPX8 Wate 17.6 kPa of connector fi ESCRIPTIC DIS-A ature sistance at the n in Fig.2 on Sealing and A	to 5% salt spray for 48 hours. to a depth of 2 m for 14 days. erproof)(JIS C 0920:2003) f air pressure applied to the insi for 30 seconds. DN OF REVISIONS A-00071617 he points shown in Fig.1 on the	DI	3) No No hea No wa d No air conne ESIGNED	damage, cracks o avy corrosion which ter penetration int bubbles emitted f ctor.	r looseness of parts. ch impairs functionality. o the connector. rom the inside of the CHECKED TP. KOMATSU HY. KOBAYASHI	X X DA 2022 2022	TE 0808
Corrosion Salt Sealing(4) Air Tightness( COUN Air Tightness( COUN A COUN (2) Mea (3) Dela (4) Cor with	t Mist(4)  4)  • Room Tempera asured contact re aying curve show rrosion salt mist, \$ n an applicable co	Subjected ti (IPX8 Wate 17.6 kPa of connector fi ESCRIPTIC DIS-A ature sistance at th in Fig.2 on Sealing and A onnector.	to 5% salt spray for 48 hours. to a depth of 2 m for 14 days. erproof)(JIS C 0920:2003) if air pressure applied to the insi for 30 seconds. DN OF REVISIONS A-00071617 he points shown in Fig.1 on the the next page. Air tightness shall be tested und	Di next page. ler mated cond	3) No No hea No wa d No air conne ESIGNED	damage, cracks o avy corrosion which ter penetration int bubbles emitted f ctor.	r looseness of parts. ch impairs functionality. o the connector. rom the inside of the CHECKED TP. KOMATSU HY. KOBAYASHI TY. SUZUKI	X X DA 2022 2022 2022	TE 0808 0809
Corrosion Salt Sealing(4) Air Tightness( COUN Air Tightness( COUN Air Tightness( (2) (2) (3) (4) (4) (4) (5) (5) (5) (4)	t Mist(4)  (4)  T Df  : Room Tempera asured contact re aying curve show rrosion salt mist, s n an applicable co erating temperture	Subjected f Subjected f (IPX8 Wate 17.6 kPa of connector f ESCRIPTIC DIS-A ature sistance at th in Fig.2 on Sealing and A onnector.	to 5% salt spray for 48 hours. to a depth of 2 m for 14 days. erproof)(JIS C 0920:2003) if air pressure applied to the insi for 30 seconds. DN OF REVISIONS A-00071617 he points shown in Fig.1 on the of the next page. Air tightness shall be tested und udes the temperature rise by cur	DI next page. ler mated cond	3) No No hea No wa d No air conne ESIGNED	damage, cracks o avy corrosion which ter penetration int bubbles emitted f ctor.	r looseness of parts. ch impairs functionality. o the connector. rom the inside of the CHECKED TP. KOMATSU HY. KOBAYASHI	X X DA 2022 2022	TE 0803 0803
Corrosion Sall Sealing(4) Air Tightness( COUN Air Tightness( COUN Air Tightness( COUN (2) Vith (2) Mez (3) Dela (4) Cor with (5) Ope	t Mist(4)  (4)  T Df  : Room Tempera asured contact re aying curve show rrosion salt mist, s n an applicable co erating temperture	Subjected f Subjected f (IPX8 Wate 17.6 kPa of connector f ESCRIPTIC DIS-A ature sistance at th in Fig.2 on Sealing and A onnector.	to 5% salt spray for 48 hours. to a depth of 2 m for 14 days. erproof)(JIS C 0920:2003) if air pressure applied to the insi for 30 seconds. DN OF REVISIONS A-00071617 he points shown in Fig.1 on the the next page. Air tightness shall be tested und	DI next page. ler mated cond	3) No No hea No wa d No air conne ESIGNED	damage, cracks o avy corrosion which ter penetration int bubbles emitted f ctor.	r looseness of parts. ch impairs functionality. o the connector. rom the inside of the CHECKED TP. KOMATSU HY. KOBAYASHI TY. SUZUKI TY. SUZUKI	X       X       DA       2022       2022       2022       2022       2022       2022	TE 0808 0808 0808
Corrosion Salt Sealing(4) Air Tightness( COUN Air Tightness( COUN Air Tightness( COUN (2) Mea (3) Dela (4) Cor with (5) Ope Unless ot	t Mist(4)  (4)  T Df  : Room Tempera asured contact re aying curve show rrosion salt mist, s n an applicable co erating temperture	Subjected ti (IPX8 Wate 17.6 kPa of connector fi ESCRIPTIC DIS-A ature sistance at th in Fig.2 on Sealing and A onnector. te range inclu cified, ref	to 5% salt spray for 48 hours. to a depth of 2 m for 14 days. erproof)(JIS C 0920:2003) if air pressure applied to the insi for 30 seconds. DN OF REVISIONS A-00071617 he points shown in Fig.1 on the the next page. Air tightness shall be tested und udes the temperature rise by cur fer to IEC 60512 (JIS 0	DI next page. ler mated cond rrent carrying. C 5402).	3) No No hea No wa d No air conne ESIGNED	damage, cracks o avy corrosion which ter penetration int bubbles emitted f ctor.	r looseness of parts. ch impairs functionality. o the connector. rom the inside of the CHECKED TP. KOMATSU HY. KOBAYASHI TY. SUZUKI	X       X       DA       2022       2022       2022       2022       2022       2022	TE 0808 0808 0808
Corrosion Salt Sealing(4) Air Tightness( COUN Air Tightness( Air Tightness( COUN Air Tightness( Air Tightness( (2) Mea (3) Dela (4) Cor with (5) Ope Unless ott Note QT:C	t Mist(4)  (4)  (4)  • Room Temperasured contact reaving curve show rosion salt mist, { n an applicable coerating temperture therwise spee Qualification Te	Subjected ti (IPX8 Wate 17.6 kPa of connector f ESCRIPTIC DIS-A ature sistance at th in in Fig.2 on Sealing and A connector. te range inclu cified, ref st AT:Ass	to 5% salt spray for 48 hours. to a depth of 2 m for 14 days. erproof)(JIS C 0920:2003) if air pressure applied to the insi for 30 seconds. DN OF REVISIONS A-00071617 he points shown in Fig.1 on the the next page. Air tightness shall be tested und udes the temperature rise by cur fer to IEC 60512 (JIS of surance Test X:Applicable	DI next page. ler mated cond rrent carrying. C 5402). le Test	3) No No hea No wa d No air conne ESIGNED	damage, cracks of avy corrosion which ter penetration int bubbles emitted f ctor.	r looseness of parts. ch impairs functionality. o the connector. rom the inside of the CHECKED TP. KOMATSU HY. KOBAYASHI TY. SUZUKI TY. SUZUKI ELC-119542-0	X       X       DA       2022       2022       2022       2022       2022       2022	TE 0808 0805 0805
Corrosion Salt Sealing(4) Air Tightness( COUN Air Tightness( COUN Air Tightness( COUN (2) Mea (3) Dela (4) Cor with (5) Ope Unless ot	t Mist(4)  (4)  (4)  • Room Temperasured contact reaving curve show rosion salt mist, { n an applicable coerating temperture therwise spee Qualification Te	Subjected ti (IPX8 Wate 17.6 kPa of connector f ESCRIPTIC DIS-A ature sistance at th in in Fig.2 on Sealing and A connector. te range inclu cified, ref st AT:Ass	to 5% salt spray for 48 hours. to a depth of 2 m for 14 days. erproof)(JIS C 0920:2003) if air pressure applied to the insi for 30 seconds. DN OF REVISIONS A-00071617 he points shown in Fig.1 on the the next page. Air tightness shall be tested und udes the temperature rise by cur fer to IEC 60512 (JIS 0	DI next page. ler mated cond rrent carrying. C 5402). le Test	3) No No hea No wa d No air conne ESIGNED	damage, cracks of avy corrosion which ter penetration int bubbles emitted f ctor.	r looseness of parts. ch impairs functionality. o the connector. rom the inside of the CHECKED TP. KOMATSU HY. KOBAYASHI TY. SUZUKI TY. SUZUKI	X       X       DA       2022       2022       2022       2022       2022       2022	TE 0808 0805

