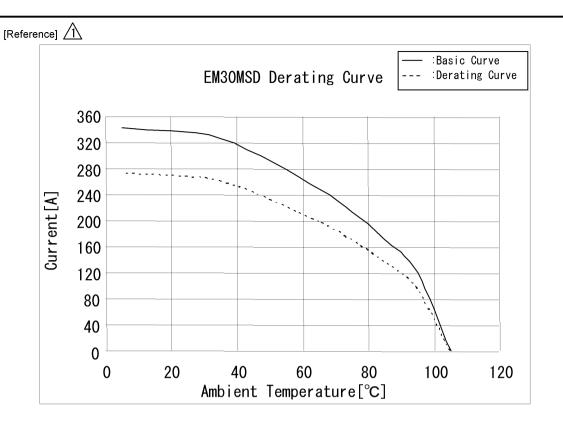
APPLICABLE	STANDAF	RD									
RATING	OPERATING TEMPERATURE RANGE		-40 °C TO +105 °C			EMPERATURE NGE		-10 °C TO +60	°C		
	VOLTAG		POWER CONTACT : AC/DC SIGNAL CONTACT : AC/DC				-	·	_		
	CURREN	IT	POWER CONTACT : 200	A (4)	APPL I CAB	BLE CABLE	\top	100 mm² min			
			SIGNAL CONTACT : 1				(AWG#4/0 min)				
			SPEC	CIFICAT	IONS						
ITE	M		TEST METHOD			RE	EQU	REMENTS	QT	A	
CONSTRUCTION		-									
GENERAL EXAMINA	ATION		AND BY MEASURING INSTRUMENT.		ACCORD	ACCORDING TO DRAWING.				>	
MARKING		CONFIRMED VISUALLY.							X	X	
ELECTRIC CHARACTE CONTACT RESISTANCE(2)		•				N. F O. MAY			X	Ι.,	
		CONTACT SHALL BE MEASURED AT DC 1A. (POWER CONTACT) CONTACT SHALL BE MEASURED AT DC 1A. (SIGNAL CONTACT INCLUDE GT8E-2S-2C)				0.5 mΩ MAX. 90 mΩ MAX.) }	
INSULATION RESISTANCE		(SIGNAL CONTACT INCLUDE GIBE-2S-2C) 500 V DC.				5000 MΩ MIN.				+	
VOLTAGE PROOF		4500 V AC. FOR 1 min. (POWER CONTACT)				NO FLASHOVER OR BREAKDOWN.				×	
		750 V AC. FOR 1 min. (SIGNAL CONTACT)								+	
MECHANICA	AL CHARAC			JIII 17							
CONNECTOR INSER			BY APPLICABLE CONNECTOR		INSERT	ION AND WIT	HDRA	WAL FORCES : 100 N MAX.		T	
WITHDRAWAL FORCES		WITHOUT LOCKING DEVICE.							X	-	
MECHANICAL OPERATION		50 TIMES INSERTIONS AND EXTRACTIONS. (BETWEEN EM30MSD PLUG AND RECEPTACLE)				CONTACT RESISTANCE: 0.75 mΩ MAX. (POWER CONTACT) CONTACT RESISTANCE: 150 mΩ MAX.				_	
		30 TIMES INSERTIONS AND EXTRACTIONS. (BETWEEN EM30MSD RECEPTACLE AND GT8E-2S-2C)				(SIGNAL CONTACT INCLUDE GT8E-2S-2C) CONTACT RESISTANCE: 150 mΩ MAX. (SIGNAL CONTACT INCLUDE GT8E-2S-2C)			X	_	
VIBRATION①		FREQUENCY: 10 \rightarrow 55 \rightarrow 10 (Hz) (1CYC, 5min), SINGLE AMPLITUDE 0.75 mm, AT 10 CYC, FOR 3 DIRECTIONS.				①NO ELECTRICAL DISCONTINUITY OF 10 µs. ②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			Х	_	
VIBRATION(2) (RANDOM) (ISO 16750-3, JASO D 014-3)		FREQUENCY RANGE: 10 TO 2000 (Hz), ACCELERATION SPECTRUM DENSITY: 57.9 m/s ² , AT 8 h, FOR 3 DIRECTIONS.				①NO ELECTRICAL DISCONTINUITY OF 10 μs. ②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			Х	_	
SHOCK		IN OPPOSITE DIRECTIONS OF EACH 3 DEMENSION AXIS FOR 3 TIMES AT 490 m/s ² DURACTIONS OF PULSE 11 ms. ARACTERISTICS				①NO ELECTRICAL DISCONTINUITY OF 10 μs. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			Х	_	
RAPID CHANGE OF			RE $-40 \rightarrow R/T^{(1)} \rightarrow +125 \rightarrow R$!/T ℃	(1) INSI	JIATION RES	ISTA	NCE: 5000 MΩ MIN.	Тх	Τ_	
TEMPERATURE		TIME 30 —	→ 2 TO 3 → 30 → 2 TO 3 min	,	YCLES. 2 NO D	② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.				1	
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 °C, 90 TO 95 %, 96 h.			(AT ② INSU DRY).					-	
CORROSION SALT MIST(3)		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.				③ NO DAMAGE. CRACK AND LOOSENESS OF PARTS. NO HEAVY CORROSIN RUIN THE FUNCTION.				+-	
SEALING (3)	III 01 (0)	EXPOSED AT A DEPTH OF 2 m FOR 14 DAYS.				NO WATER PENETRATION INSIDE CONNECTOR.				†-	
AIR TIGHTNESS (3)		(IP68 WATERPROOF) APPLY AIR PRESSURE 17.6kPa FOR 0.5min TO INSIDE				NO AIR BUBBLES INSIDE CONNECTOR.				X	
	BEVE	FIG. 1 MEASURING POINT OF CONTACT RESIS PLUG EPTACLE CRINE				R1 : POWER CONTACT R2 : SIGNAL CONTACT					
	NTACT SIDE E CONNECTOR		R) R2		CRINP CONTAC		POW	ER CONTACT			
COUNT	_	SCRIPTIO	ON OF REVISIONS		DESIGNED			CHECKED	D/	ATE	
∆ 3		DIS-	-C-003590		TY. SUZUK I			HY. KOBAYASHI	14. (08. 2	
REMARK	•			•		APPROV	ED	SU. OBARA	14. (07. O	
NOTES (1) R/T:ROOM TEMPERATURE (2) MEASURED CONTACT RESISTANCE AT THE POINTS SHOWN IN FIG.1.						CHECKE	ĒD	HY. KOBAYASHI		14. 07. 04	
		ST, SEALING AND AIR TIGHTNESS SHALL BE TESTED UNDER ITH AN APPLICABLE CONNECTOR.				DESIGNED		TY. SUZUK I		07. 0	
(4) OPERATING TEMPERTURE RANGE INCLUDES THE TEMPERATURE RISE BY CUR Unless otherwise specified, refer to JIS C 5402(IEC 60512).								TY. SUZUK I	14. 07. 02		
			urance Test X:Applicable	T T	DRAWIN	NG NO.		ELC4-118302	-00		
HS-	SF	SPECIFICATION SHEET			PART NO.	RT NO. EM30MSD		EM30MSD			
117	HIR	OSE EL	ECTRIC CO., LTD.		CODE NO.	CL ²	138	-0200-0-00	Δ	1/2	

FORM HD0011-2-1



Measurement method:

Mated plug and receptacle with 100 mm² cable.

Note:

Derating curve could vary depending on cable type and each measurement even under the same conditions.

Therefore, above data are guidelines and not connector specifications.

Note QT:Qu	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	G NO.	ELC4-118302-00			
HS.	SPECIFICATION SHEET	PART NO.	EM30MSD				
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL138	3-0200-0-00	Δ	2/2	

