APPLIC	CABL	E STANDA	.RD									
OPERATING				-25°C T0 +105°C	C (1)	STOR	RAGE TEM	MPERATURE		-10°C TO +60°		
RATIN		TEMPERATURE	RANGE		, ,	RANG						
	Ī	VOLTAGE		AC 600 V , DC 60	00 V		_			_		
		CURRENT	90A ( WITH 22mm <sup>2</sup> CABLE) APPL					CABLE		_		
				SPEC	CIFICA	TION	S					
	ITE	ΞM		TEST METHOD				R	REQU	IIREMENTS	QT	АТ
CONST	TRUC	TION	•									
GENERAL E	EXAMIN	NATION	VISUALLY AND BY MEASURING INSTRUMENT.				ACCORDING TO DRAWING.				Х	Х
MARKING			CONFIRMED VISUALLY.								Х	X
ELECTI	RIC	CHARACTI	RISTICS									
CONTACT RESISTANCE			CONTACT SHALL BE MEASURED AT DC 1A.				0.5 mΩ MAX				X	X
INSULATIO	INSULATION RESISTANCE			500 V DC.			1000 MΩ MIN.				X	X
VOLTAGE F			3310 V AC. FOR 1 min.			NO FLASHOVER OR BREAKDOWN.				Х	Х	
		AL CHARA					I				1	
CONTACT INSERTION AND WITHDRAWAL FORCES			$\phi 7.98^{+0}_{-0.003}$ by steel auge.			INSERTION AND WITHDRAWAL FORCES : 1.7 N MIN.				_	_	
CONNECTOR INSERTION AND			MEASURED BY APPLICABLE CONNECTOR.			INSERTION AND WITHDRAWAL FORCES : 70 N MAX.				×	_	
	WITHDRAWAL FORCES			WITHOUT LOCKING DEVICE.			(INITIAL MEASUREMENTS)				<u> </u>	
MECHANICAL OPERATION			30 TIMES INSERTIONS AND EXTRACTIONS.				ONO DAMAGE, CRACK AND LOOSENESS OF PARTS.				Х	_
							②CONTACT RESISTANCE :1 mΩ MAX ③INSERTION AND WITHDRAWAL FORCES :100 N MAX.					
VIBRATION			FREQUENCY: 10 → 55 → 10 (Hz) (1CYC, 5min).				(3) NO ELECTRICAL DISCONTINUITY OF 10 µs.					
			SINGLE AMPLITUDE 0.75 mm, AT 10 CYC, FOR 3				②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.				X	_
			DIRECTIONS.									
SHOCK			IN OPPOSITE DIRECTIONS OF EACH 3 DEMENSION AXIS FOR				① NO ELECTRICAL DISCONTINUITY OF 10 μs.				X	
			3 TIMES AT 490 m/s <sup>2</sup> DURACTIONS OF PULSE 11 ms.				② NO D	② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.				
		ENTAL CH					I				ı	
DAMP HEAT (STEADY STATE)			EXPOSED AT 40 °C, 90 TO 95 %, 96 h.			-			ANCE: 10 MΩ MIN	Х	_	
(STEAUT STATE)						(AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 100 MΩ MIN						
							-	DRY).	.01017	110E 100 1111 1111		
							③ NO DAMAGE. CRACK AND LOOSENESS OF PARTS.					
RAPID CHA	IANGE (	)F	TEMPERATURE $-55 \rightarrow R/T^{(2)} \rightarrow +105 \rightarrow R/T$ °C				① INSULATION RESISTANCE: 1000 MΩ MIN.					
TEMPERATURE			TIME 30 -	TIME 30 $\rightarrow$ 2 TO 3 $\rightarrow$ 30 $\rightarrow$ 2 TO 3 min UNDER 5 CYCLES.			② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.				Х	_
CORROSION SALT MIST			EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.			NO HEAVY CORROSION RUIN THE FUNCTION.				X		
DRY HEAT			EXPOSED AT +105°C, 96 h.			NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				X	_	
COLD			EXPOSED AT -55°C, 96 h.			NO DAMAGE, CRACK AND LOOSENESS OF PARTS.						
											X	_
	OUNT		ESCRIPTI	SCRIPTION OF REVISIONS DES		DESIG	GNED			CHECKED	DATE	
<u> </u>												
REMARK						APPROVED			SU. OBARA	14. 0	2. 04	
NOTES(1)			ERATURE RA	NGE INCLUDES THE TEMPERAT	URE RISE	E BY CUR	RENT					
(2)		RYING. ROOM TEMPE	TIONS SHOWS THE VALUES IN ASSEMBLED CONDITION WITH				CHECK	(ED	HY. KOBAYASHI	HY. KOBAYASHI 14. 02		
, ,						Н	DESIGN	VED.	TIC NAMACHIMA	14. 0	2 04	
(-/	•	_ICABLE CRII				H DESIGNED		NLD	HS. KAWASHIMA 14.		2. 04	
(4) THIS CONNECTOR IS DESIGNED TO BE USED UNDER STATIONARY CONDITIONS.												
(4)	•							o. DRAWN		HS.KAWASHIMA	14. 0	2.04
	PLE	ASE AVOID A	PLICATIONS THAT VIBRATION IS APPLIED.				2.3.001		•		0	_, 07
Unless	oth	erwise spe	ecified, re	efer to JIS C 5402(IEC	60512	?).						
Note QT:Qualification Test AT:Assurance Test X:Applicable Te					st	DF	RAWING NO.			ELC4-118306-00		
R	5	SPECIFICATION SHEET			PART NO.		EM12MR-1SCB					
		HIROSE ELECTRIC CO., LTD.				CODE NO.		CL138-0032-8-00				1/1

