APPLIC	ABLE STAN		TÜV approved/R 5036267	8) 1	LII approved	(E52653)	<u>/2</u>				
	OPERATING TEN	IPERATURE	-20 °C T0 +90	<u>°C</u>			:				
PATING	VOLTAGE		(Including temperature rise due to conduction)		RA	RAGE TEMPERATURE -10 °C T RANGE -10 °C T		0 °C TO +	60 °C		
NAT ING			AC, DC 1, 000V								
	CURREN	11			Applica	ble Cable		/1\ []>			
			SPEC	CIFICA	TIONS						
1	TEM		TEST METHOD			RE	QUIREMEN	TS	QT	AT	
CONSTR	RUCTION	1			1					-1	
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORD				Х	Х	
MARKING		CONFIRMED VISUALLY.			NOOOND	Accoluting to brawing.			Х	Х	
ELECTR	IC CHARAC	TERIS	FICS							1	
CONTACT RESISTANCE		MEASURED AT THE CONTACT AT DC 1A.			0.5m Ω	0.5m Ω MAX.			х	х	
INSULATION R	ESISTANCE	MEASURED AT DC 500V.			1000M 9	1000MΩ MIN.				Х	
VOLTAGE PROO	F	AC 2200V APPLIED FOR 1min.			NO FLA	NO FLASHOVER OR BREAKDOWN.				Х	
MECHAN	JICAL CHA	RACTER	RISTICS								
CONNECTOR IN	SERTION AND	MEASURED V	VITH AN APPLICABLE CONNECTOR		INSERT	ION AND WITH	HDRAWAL FORCE	S: 200N MAX.	х	_	
WITHDRAWAL F	ORCES	WITHOUT A	LOCKING DEVICE.		NO DAN			2001 11.00	×		
IERMINAL REI	ENTION FURCE	280N APPLIED AT THE CONNECTION						GE CDACKS OD	X	-	
MECHANICAL O	MECHANICAL OPERATION		INSERETED AND EXTRACTED 50 TIMES.			 NU FUNCTION IMPAIRING DAMAGE, CRACKS, OR LOOSENESS IN THE PARTS. CONTACT RESISTANCE: 1 mΩ MAX. 			х	—	
VIBRATION		FREQUENCY RANGE: 10 TO 500Hz/CYCLE, SINGLE AMPLITUDE 0 0.75mm, FOR 3 HOURS IN 3 AXIAL DIRECTIONS (MIL-STD-1344 method 2005, condition 2).			TUDE OF 1) NO 2) NO PA) ELECTRICAL DISCONUITY OF 10 μ s.) DAMAGE, CRACKS, OR LOOSENESS IN THE ARTS.				_	
SHOCK		IN 6 AXIAL DIRECTIONS AT AN ACCELERATION OF 490 $\mbox{m/s}^2$ A PULSE DURATION OF 11ms AND PERFORMED 3 TIMES.			m/s², 1) NO 2) NO PA	ELECTRICAL DISCONUITY OF 10 μ s. DAMAGE, CRACKS, OR LOOSENESS IN THE RTS X				_	
ENVIRO			CTERISTICS							1	
					1) IN	SULATION RES	SISTANCE: 10M	Ω MIN (WHEN			
DAMP HEAT (STEADY STATE)		TEMPERATURE: 40°C, HUMIDITY 90 TO 95%, LEFT FOR 96 HOURS.			WE 2) IN DR 3) NO PA	 WET). 2) INSULATION RESISTANCE: 100M Ω MIN (WHEN DRY). 3) NO DAMAGE, CRACKS, OR LOOSENESS IN THE PARTS. 			x	_	
TEMPERATURE CYCLE		TEMPERATURE : -40° C → R/T ⁽³⁾ → $+105^{\circ}$ C → R/T TIME : $30 \rightarrow 2$ TO $3 \rightarrow 30 \rightarrow 2$ TO 3 min TESTED OVER 5 CYCLES.			1) IN 2) NO PA	 INSULATION RESISTANCE: 1000MΩ MIN. NO DAMAGE, CRACKS, OR LOOSENESS IN THE PARTS. 				-	
RESISTANCE TO HEAT		EXPOSED AT A TEMPERATURE OF +105 ° C FOR 96 HOURS.			S. NO DAM	NO DAMAGE, CRACKS, OR LOOSENESS IN THE PARTS. X					
RESISTANCE T		EXPOSED AT A TEMPERATURE OF -40° C FOR 96 HOURS			NO DAM	NO DAMAGE CRACKS OR LOOSENESS IN THE PARTS X				_	
		CONNECTED TO AN APPLICABLE CONTACT AT A WATER DEPTH OF 1m FOR 30 MINUTES.			DEPTH OF NO WAT	NO WATER PENETRATION INSIDE THE CONNECTOR.				_	
AIR TIGHTNESS ⁽²⁾		CONNECTED TO AN APPLICABLE CONTACT, 17.6kPa OF AIR PRESSURE WAS APPLIED FOR 30 SECONDS.			OF AIR NO AIR	NO AIR BUBBLES EMITTED FROM THE CONNECTOR.				-	
CORROSION SA	LT MIST 3	CONCENTRATION 5% SALT WATER, LEFT FOR 48 HOURS.			NO FUN	NO FUNCTION IMPAIRING CORROSION.				—	
							CUE				
								00100005			
		D1S-C-00002977		L	WK. AJIKU		IP. K	UMA I SU	2019	20190305	
REMARKS Notes: (1) Above specifications sh			ns show the values in assembled condition with		th	APPROV	ED ;	su. Obara	201	51217	
applicable crimp (2) Sealing and air applicable conn E2KD 3636 insta		mp contacts. r tightness were tested under mated condition with an nnector, and SANKEI CO.,LTD KEIGLAND E2KD 2836 ,E2KD 323 talled.			th an	CHECKE	ED Y	'H. YAMADA	201	51217	
					E2KD 3236 or	36 or DESIGNED		'S. SAKODA	20151217		
(3) R/T = room temperature For unspecified specifications, refer to H			afar to IEC GOELA (U.C.C.	IEC 60512 (US C 5402)		DRAW	N TH	THOMAS FORAN		20151217	
Note QT:C	Qualification Tes	st AT:Ass	surance Test X:Applicable T	est	DRAW/II		FI	C-118665-	-00-0	0	
100				PART NO.	г NO. EM52M-WBR-4SC/						
HS HIROSI		OSE EL	SE ELECTRIC CO., LTD.		CODE NO.	ENO. CL138-0036-9-00		Å	1/3		

FORM HD0011-2-1



Table 1 shows the current rating and applicate cable.

Current (7)	100A (TÜV.UL), 2 130A(Ambient Temperature 25°C)	80A (TÜV.UL), 🖄
Applicable Cable	$\begin{array}{c} 38(26.66 \ \text{to} \ 42.42)\text{mm}^2 \\ \text{AWG 2} \end{array}$	22(16.78 to 26.66)mm ² AWG 4

Current rating depends on ambient temperature. Please refer to the derating curve shown below.



Note C	QT:Qu	alification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-118665-00-00		
Ъ		SPECIFICATION SHEET	PART NO.	EM52M-WBR-4SCA			
╽┓┎╺╸		HIROSE ELECTRIC CO., LTD.	CODE NO.	CL138	8-0036-9-00		2/3



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