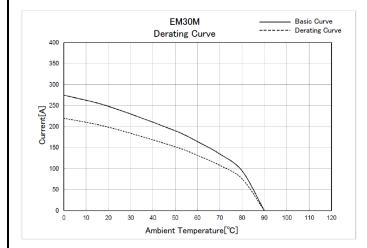
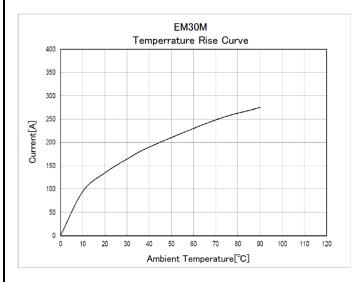
APPLICA	BLE STAN	IDARD	⚠ UL approved (E	E4813	44)								
OPERATING TEM		IPERATURE −20 °C TO +90		°C	STORAG		AGE TEMPERATURE		−10 °C TO +6	0 °C			
RATING	RANGE VOLTAG		(Including temperature rise due to conduction) AC. DC 1000V		ion)	RANGE		_					
	CURRENT		,		PPLICABLE CABLE			42. 42 TO 60. 57 mm					
			SPECIFICATION:				AWG I						
ITEM TEST METHOD REQUIREMENTS QT A													
CONSTRUCTION									Qı	Λ1			
GENERAL EXAMI	NATION	VISUALLY AND BY MEASURING INSTRUMENT.								Х	Х		
MARKING		CONFIRMED VISUALLY.				ACCORDING TO DRAWING.				Х	Х		
ELECTRI	C CHARAC	TERISTICS								-	1		
CONTACT RESISTANCE		MEASURED AT THE CONTACT AT DC 1A.				0.6mΩ MAX.				Х	Х		
INSULATION RESISTANCE		MEASURED AT DC 500V.				1000MΩ MIN.				Х			
VOLTAGE PROOF		AC 2200V APPLIED FOR 1min.			NO FLASHOVER OR BREAKDOWN.				Х	_			
	ICAL CHAP		RISTICS WITH AN APPLICABLE CONNECTOR			1					1		
CONNECTOR INSERTION AND WITHDRAWAL FORCES		WITHOUT A LOCKING DEVICE.				INSERTIO	ON AND WI	THDRA	WAL FORCES: 100N MAX.	Х	_		
TERMINAL RETE	NTION FORCE	280N APPLIED AT THE CONNECTION				NO DAMAG				Х	_		
MECHANICAL OPERATION		INSERETED AND EXTRACTED 50 TIMES.			 NO FUNCTION IMPAIRING DAMAGE, CRACKS, OR LOOSENESS IN THE PARTS. CONTACT RESISTANCE: 0.8 mΩ MAX. 				x	-			
VIBRATION		FREQUENCY RANGE: 10 TO 500Hz/CYCLE, SINGLE AMPLITUDE OF 0.75mm, FOR 3 HOURS IN 3 AXIAL DIRECTIONS (MIL-STD-1344 method 2005, condition 2).								х	_		
SHOCK		IN 6 AXIAL DIRECTIONS AT AN ACCELERATION OF 490 m/A PULSE DURATION OF 11ms AND PERFORMED 3 TIMES.				1) NO ELECTRICAL DISCONUITY OF 10 µs. 2) NO DAMAGE, CRACKS, OR LOOSENESS IN THE PARTS.				Х	_		
ENVIRON	IMENTAL (HARA	CTERISTICS			17.11	10.						
					1) INSULATION RESISTANCE: 10MΩ MIN (WHEN WET).								
DAMP HEAT (STEADY STATE)		TEMPERATURE: 40°C, HUMIDITY 90 TO 95%, LEFT FOR 96 HOURS.			2) INSULATION RESISTANCE: 100MΩ MIN (WHEN				×				
					DRY). 3) NO DAMAGE, CRACKS, OR LOOSENESS IN THE								
						PARTS.							
TEMPERATURE CYCLE		TEMPERATURE: $-40^{\circ} \text{ C} \rightarrow \text{R/T}^{(3)} \rightarrow +105^{\circ} \text{ C} \rightarrow \text{R/T}$ TIME: $30 \rightarrow 2 \text{ TO } 3 \rightarrow 30 \rightarrow 2 \text{ TO } 3 \text{ min}$			 INSULATION RESISTANCE: 1000M Ω MIN. NO DAMAGE, CRACKS, OR LOOSENESS IN THE 				X	1_			
	TEMI ENATORE GIGLE		TESTED OVER 5 CYCLES.			PARTS.							
RESISTANCE TO	RESISTANCE TO HEAT		EXPOSED AT A TEMPERATURE OF +105 °C FOR 96 HOURS.			NO DAMAGE, CRACKS, OR LOOSENESS IN THE PARTS.					_		
RESISTANCE TO COLD		EXPOSED AT A TEMPERATURE OF -40°C FOR 96 HOURS.			NO DAMAGE, CRACKS, OR LOOSENESS IN THE PARTS.								
SEAL I NG (2)		CONNECTED TO AN APPLICABLE CONTACT AT A WATER DEPTH OF 1m FOR 30 MINUTES.			NO WATER PENETRATION INSIDE THE CONNECTOR.					-			
AIR TIGHTNESS (2)		CONNECTED TO AN APPLICABLE CONTACT, 17.6kPa OF A PRESSURE WAS APPLIED FOR 30 SECONDS.			OF AIR	R NO AIR BUBBLES EMITTED FROM THE CONNECTOR.					_		
COUNT DES		SCRIPTION OF REVISIONS			DESIGNED		CHECKED		DA	ATE			
1		DIS-C-00013440			TY. TAKAHASH				EJ. KUNI I	2022	20221130		
REMARKS							APPRO'	VFD	TP. KOMATSU	2023	20520		
	Above specifica applicable crim	tions show the values in assembled condition with up contacts.				CHECK		EJ. KUNI I					
		tightness were tested under mated condition with an						25.116.117		20220518			
	applicable confined $R/T = room temp$	nector, and SANKEI CO.,LTD KEIGLAND E2KD 2428 installed. Derature			DESIGNED		NED	HR. SATO	ATO 2022051				
For unspecified specifications, refer to IEC 60512 (JIS C 5402).						DRAWN HR. SATO		20220516					
Note QT:Q	Note QT:Qualification Test AT:Assurance Test X:Applicable Test D						RAWING NO. ELC-119508-8			81-0	0		
жs	SF	SPECIFICATION SHEET			PART	PART NO.		EM30M-WBP-1PCA-K (81					
HIROSE ELECTRIC			LECTRIC CO., LTD.	D., LTD. COD		NO.	CL0138-0074-0-81			Δ	1/2		

SPECIFICATIONS





Notes:

- 4) The derating curve is derived from the basic curve multiplied by the derating factor of 0.8.
- 5) The value of rated current varies with the ambient temperature. It is recommended to use the product within the derating curve zone. When using a UL approved product, please use the product within the specified range as well as the derating curve area.
- The measurement method of the derating curve is shown below.
 - •Test specimen: This product, unused prior to testing.
 - •Test cable conductor cross sectional area: 50mm²
 - Test condition: Power supplied while the specimen is in a stationary state and then measured.

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-119508-81-00		
HS	SPECIFICATION SHEET	PART NO.	EM30M-WBP-1PCA-K (81)			
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL0138	-0074-0-81	<u>^</u> 2/2	