CONSTRUCTION		COUNT	DESCRIPTION OF	REVIS	SIONS	BY	CHKD	DA	TE	COUNT		r DESCF		RIPTION OF REVISIONS			BY	CHKD	D/	\TE
Operating   Properties   Prop								-												
Operating   Properties   Prop		△																		
Temperature Range	APF	LICAE		<del>ر</del>							-	C:			ı					
Parting   Part																	°C to	60°C (I	Note3	3)
Range	D.1-7110				9+															
Voltage					I ZU% TO BU% (NOTEZ)								_							
AWG 32 : 0.8A   AWG 30 : 1.0A   Applicable Contact   KW303-0332PCFA(###)   KW303-032PCFA(###)   KW303-032PCFA(###)   KW303-032PCFA(###)   KW303-232PCFA(###)   KW303-232PCFA(###)   KW303-233PCFA(###)   KW303-233PCFA(#	RA	TING	Voltage		100V AC/DC Ap							Appl	Applicable Connector							
SPECIFICATIONS   SPECIFICATIONS   TEST METHOD   REQUIREMENTS   QT   AT					AWO 00 004 AWO 00 404															)
SPECIFICATIONS   TEM   TEST METHOD   REQUIREMENTS   QT   A			Current		I An								pplicable Contact							•
TIEM	KW30A-2830PCFA													A(###	<b>‡</b> )					
CONSTRUCTION	SPECIFICATIONS																			
General Examination						TES	ST ME	THO	D					R	REQUIRE	MENTS	<u> </u>		QT	AT
Marking   Confirmed visually.   According to drawing.   O   O																				
Continued visually,   Continued visually,   Contract Resistance	General Examination			According to drawing												0	0			
Contact Resistance   20mV MAX, 10mA (DC or 1000Hz)   30 mΩ MAX.   0   0   0   0				Confirmed visually.											0	0				
Millivolt Level Method   So   Do   Do   Do   Do   Do   Do   Do	ELE	CTRI	CAL CHARAC	TERISTICS																
Millivoit Level Method	Cont	act Res	istance	20mV MAX, 10mA (DC or 1000Hz).									0 mΩ l	MAX.					_	
Voltage Proof   S00 V AC for 1 min.   No flashover or breakdown.   O   MECHANICAL CHARACTERISTICS																			Ľ	Ĺ
MECHANICAL CHARACTERISTICS  Mechanical Operation  30 times insertion and extraction.  2No damage, crack or looseness of parts.  0 □  Mating and unmating force  It takes out and inserts with a conformity connect 0 (Dinsertion Force: 23.5N MAX 2Extraction Force: 23.5N MAX 3Extraction Force: 23.5N MAX 3Ext				250 V DC. 100 MΩ MIN.													0	_		
Methanical Operation  30 times insertion and extraction.  □ Contact resistance: 50m □ MAX ②No damage, crack or looseness of parts.  □ Contact extraction force  □ Contact extraction force □ Pull out the cable after housing fixation.  □ Frequency 10 to 55 Hz, single amplitude 1.52 mm. at 2 hours for 3 direction.  □ No electrical discontinuity of 1 μ s. ②No damage, crack or looseness of parts.  □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Volta	ge Prod	of	500 V AC for 1 min. No flashover or breakdown.												0	_			
②No damage, crack or looseness of parts.   ○   □	ME	CHAN	ICAL CHARAC	CTERI	<u>IS</u> TIC	S														
Section   Se	Mech	nanical (	Operation	30 time	es inse	rtion ar	nd extra	action	١.			(1	1)Conta	act resi	stance : 5	0mΩ MA	X			_
Contact extraction force    Pull out the cable after housing fixation.   TN MIN   O   O   O													_				of par	ts.	Ľ	Ĺ
Contact extraction Force   Pull out the cable after housing fixation.   7N MIN   O   Pull out the cable after housing fixation of long term storage for unused products before PCB on board. After PCB on board, operating temperature and humidity range is applied for interim storage during transportation.   Pull out the cable after housing fixation of long term storage during transportation.   Pull out the cable after housing fixation of long term storage during transportation.   Pull out the cable after housing fixation of long term storage during transportation.   Pull out the cable after housing fixation of long term storage during transportation.   Pull out the cable after housing fixation of long term storage during transportation.   Pull out the cable a	Matir	ng and ι	ınmating	It takes out and inserts with a conformity connector									①Insertion Force : 23.5N MAX						0	
Vibration   Frequency 10 to 55 Hz, single amplitude 1.52 mm, at 2 hours for 3 direction.   2No almage, crack or looseness of parts.   0   −													②Extraction Force : 2.8N MIN							
at 2 hours for 3 direction.  Shock  Acceleration 490 m/s² duration of pulse 11 ms at 3 directions.  ENVIRONMENTAL CHARACTERISTICS  Damp Heat  (Steady State)  Exposed at 40 ± 2 °C , humidity 90 to 95 %, 240 h. (2) Insulation resistance : 50 mΩ MAX. (2) Insulation resistance : 100 MΩ MIN. (3) No damage, crack or looseness of parts.  Rapid Change of Temperature −55 °C → 105 °C (1) Insulation resistance : 100 MΩ MIN. (2) Insulation resistance : 100 MΩ MIN. (3) No damage, crack or looseness of parts.  Temperature  Time 30 min → 30 min (2) Insulation resistance : 100 MΩ MIN. (3) After Voltage proof test No flashover or 0 breakdown. (4) Oracle description of the tank is 2 to 3 MIN) (After leaving the room temperature for 1 to 2h.)  Dry Heat  Exposed at 105±2 °C , 250 h (4) Oracle description of the tank is 2 to 3 MIN) (After leaving the room temperature for 1 to 2h.) (4) Oracle description of the tank is 2 to 3 MIN) (4) Oracle description of the tank is 2 to 3 MIN) (5) Oracle description of the tank is 2 to 3 MIN) (5) Oracle description of the tank is 2 to 3 MIN) (6) Oracle description of the tank is 2 to 3 MIN) (6) Oracle description of the tank is 2 to 3 MIN) (6) Oracle description of the tank is 2 to 3 MIN) (7) Oracle description of the tank is 2 to 3 MIN) (7) Oracle description of the tank is 2 to 3 MIN) (7) Oracle description of the tank is 2 to 3 MIN) (8) Oracle description of the tank is 2 to 3 MIN) (8) Oracle description of the tank is 2 to 3 MIN) (8) Oracle description of the tank is 2 to 3 MIN) (8) Oracle description of the tank is 2 to 3 MIN) (8) Oracle description of the tank is 2 to 3 MIN) (8) Oracle description of the tank is 2 to 3 MIN) (8) Oracle description of the tank is 2 to 3 MIN) (8) Oracle description of the tank is 2 to 3 MIN) (8) Oracle description of the tank is 2 to 3 MIN) (8) Oracle description of the tank is 2 to 3 MIN) (8) Oracle description of the tank is 2 to 3 MIN) (8) Oracle description of the tank is 2 to 3 MIN) (8) Oracle description of the tank is 2 to 3 MIN) (8) Oracle description			raction force										7N MIN						0	_
Shock  Acceleration 490 m/s² duration of pulse 11 ms at 3times for 3 directions.  ENVIRONMENTAL CHARACTERISTICS  Damp Heat  (Steady State)  (Steady State)  Exposed at 40 ± 2 °C, humidity 90 to 95 %, 240 h.  (Steady State)  (Steady State)  (Steady State)  Temperature −55 °C → 105 °C  Time 30min → 30min 25 Cycles.  (The transferring time of the tank is 2 to 3 MIN) (After leaving the room temperature for 1 to 2h.)  Dry Heat  Exposed at 105±2 °C, 250h  Corrosion, Salt Mist  Exposed in 35±2 % salt water spray for 48h.  Hydrogen Sulfide  Exposed in 40±2 °C, humidity 80±5% 3±1 ppm for 96h.  Note 1: Include the temperature rising by current.  Note 2: No condensing Note 3: Apply to the condition of long term storage during transportation.  PRAWN  DRAWN  DESIGNED  CHECKED  APPROVED  RELEASED  NOTE  Q1: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST	Vibra	ition											12						0	_
Stemark   Ste	0'																			
ENVIRONMENTAL CHARACTERISTICS  Damp Heat  (Steady State)  Exposed at 40 ± 2 °C , humidity 90 to 95 %, 240 h.  (Steady State)  Contact resistance : 50 mΩ MAX.  ②Insulation resistance : 100MΩ MIN.  ③No damage, crack or looseness of parts.  Time 30min → 30min  25 Cycles.  (The transferring time of the tank is 2 to 3 MIN)  (After leaving the room temperature for 1 to 2h.)  Dry Heat  Exposed at 105±2 °C, 250h  Cold  Exposed at -55±3 °C, 250h  Corrosion, Salt Mist  Exposed in 35±2 % salt water spray for 48h.  Hydrogen Sulfide  Exposed in 40±2 °C, humidity 80±5%  3±1 ppm for 96h.  Contact resistance : 50 mΩ MAX.  ②Insulation resistance : 100MΩ MIN.  ③After Voltage proof test No flashover or breakdown.  ④No damage, crack or looseness of parts.  Contact resistance : 50 mΩ MAX.  O □  O□  O□  O□  O□  O□  O□  O□  O□  O	Shoc	K																	0	-
Exposed at 40 ± 2 °C , humidity 90 to 95 %, 240 h.   (Steady State)	EVI/	/IBUN	IMENTAL CHA																	L
(Steady State)  (Temperature −55 °C → 105 °C			THE TAL OTT					nidity	90 ta	95	%. 24N	h. (1	1)Conta	act resi	stance · 5	0 mΩ M	AX			I
Sign			(Steady State)				- , man				,								0	_
Rapid Change of Temperature −55 °C → 105 °C Time 30min → 30min → 30min 25 Cycles.  (The transferring time of the tank is 2 to 3 MIN) (After leaving the room temperature for 1 to 2h.)  Dry Heat Exposed at 105±2 °C, 250h  Cold Exposed at −55±3 °C, 250h  Corrosion, Salt Mist Exposed in 35±2 % salt water spray for 48h.  Hydrogen Sulfide Exposed in 40±2 °C, humidity 80±5% 3±1 ppm for 96h.  Note 1: Include the temperature rising by current.  Note 2: No condensing Note 3: Apply to the condition of long term storage for unused products before PCB on board. After PCB on board, operating temperature and humidity range is applied for interim storage during transportation.  Remark  DRAWN DESIGNED CHECKED APPROVED RELEASED  Unless otherwise specified, refer to IEC 60512.  NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST			(																_	
Time 30min → 30min   25 Cycles. (The transferring time of the tank is 2 to 3 MIN) (After leaving the room temperature for 1 to 2h.)  Dry Heat	Rapid Change of Temperature			Tempe	Temperature −55 °C → 105 °C															
(The transferring time of the tank is 2 to 3 MIN) (After leaving the room temperature for 1 to 2h.)  Dry Heat  Exposed at 105±2 °C, 250h  Cold  Exposed at −55±3 °C, 250h  Corrosion, Salt Mist  Exposed in 35±2 % salt water spray for 48h.  Hydrogen Sulfide  Exposed in 40±2 °C, humidity 80±5% 3±1 ppm for 96h.  Note 1: Include the temperature rising by current.  Note 2: No condensing  Note 3: Apply to the condition of long term storage for unused products before PCB on board. After PCB on board, operating temperature and humidity range is applied for interim storage during transportation.  Remark  DRAWN  DESIGNED  CHECKED  APPROVED  RELEASED  Unless otherwise specified, refer to IEC 60512.  NOTE  Q: O = O = O = O = O = O = O = O = O = O				Time 30min → 30min 25 Cycles.								_	$2$ Insulation resistance : $100$ M $\Omega$ MIN. $3$ After Voltage proof test No flashover or						o -	
Cold   Exposed at 105±2 °C, 250h   Corrosion, Salt Mist   Exposed in 35±2 % salt water spray for 48h.   Contact resistance : 50 mΩ MAX.   O   −												(3								-
Dry Heat   Exposed at 105±2 °C, 250h   O   Cold   Exposed at -55±3 °C, 250h   O   Corrosion, Salt Mist   Exposed in 35±2 % salt water spray for 48h.   Contact resistance : 50 mΩ MAX.   O   Contact resistance : 50 mΩ MAX																				
Cold Exposed at -55±3 °C, 250h O -  Corrosion, Salt Mist Exposed in 35±2 % salt water spray for 48h. Contact resistance : 50 mΩ MAX. O -  Hydrogen Sulfide Exposed in 40±2 °C, humidity 80±5% Contact resistance : 50 mΩ MAX. O -  Note 1: Include the temperature rising by current.  Note 2: No condensing  Note 3: Apply to the condition of long term storage for unused products before PCB on board. After PCB on board, operating temperature and humidity range is applied for interim storage during transportation.  Remark DRAWN DESIGNED CHECKED APPROVED RELEASED  J.H.SHIN J.H.SHIN S.M.LIM S.M.LIM S.M.LIM  22.07.29 22.07.29 22.07.29 22.07.29  Unless otherwise specified, refer to IEC 60512.								•	ture f	for 1	to 2h.	) (4	④No damage, crack or looseness of parts.							
Corrosion, Salt Mist  Exposed in 35±2 % salt water spray for 48h.  Contact resistance : 50 mΩ MAX.  O  O  O  O  O  O  O  O  O  O  O  O  O				•															0	_
Hydrogen Sulfide  Exposed in 40±2℃, humidity 80±5% 3±1 ppm for 96h.  Note 1: Include the temperature rising by current. Note 2: No condensing Note 3: Apply to the condition of long term storage for unused products before PCB on board. After PCB on board, operating temperature and humidity range is applied for interim storage during transportation.  Remark  DRAWN  DESIGNED  CHECKED  APPROVED  RELEASED  J.H.SHIN  J.H.SHIN  S.M.LIM  S.M.LIM  22.07.29  22.07.29  22.07.29  22.07.29  Unless otherwise specified, refer to IEC 60512.  NOTE  QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST				•																_
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J.H.SHIN J.H.SHIN S.M.LIM S.M.LIM 22.07.29 22.07.29 22.07.29 22.07.29 22.07.29 20.07.29 20.07.29	Note	Note 1: Include the temperature rising by current.  Note 2: No condensing  Note 3: Apply to the condition of long term storage for unused products before PCB on board. After PCB on board, operating temperature														re				
Unless otherwise specified, refer to IEC 60512.  NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST	Remark								DRAWN		DESIGNED		D T	CHECKE	AF	APPROVED R		ELEASED		
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I HIROSE KOREA CO LTD. I SPECIFICATION SHEET I		HIRC	SE KOREA CO	"LTD.		SF	PECI	CIFICATION SHE					ET PART NO. KW30-7P-1C(800)							
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