	le standard											
	Operating temperature range		-55 °C to	+105°C (Note1)		Contact	AWG16	AWG18	AWG 20		VG 22
Rating	Operating humidity range		20% to 80% (Note2)			Current	1	15A	13A	11A		9A
	Storage temper	rature range	-10 °C to +60°C (Note3)		:3)		2	14A	12A	10A		8A
	Storage humidity range		40% to 70% (Note3)		3)		3					
	Applicable connector		DF63-*S-3.96C				 ∧	12A	10A 8A	8A		7A
	Voltage		AC/DC 630V				1					
		Voltage Rated Current AC/DC See above			Ove	vervoltage Category IP-Degr			e			
TÜV		600V AC/DC See abo 300V AC/DC See abo				<u> </u>						
				Specific	ations	\$						
	Item		Test met	•		-	Re	quiremen	ts		QT	A
Construct			restmet	nou				quiremen	13		QI	~
General examination		Visually and by measuring instrument.				According to drawing.					Х	
Marking		Confirmed visually.									X)
Electric (characterist	tics										
Contact resi			A (DC or 1000Hz).			10 mΩ M	AX.				Х	1-
Insulation resistance		500 V DC.				1000 MΩ MIN.					X	-
Voltage proof		1500 V AC for 1 min.				No flashover or breakdown.					X	-
• •	cal charact					1						<u> </u>
Mechanical			on and extraction.			(1)Contac	t resistance:	20 m Q M	AX.		Х	- 1
						①Contact resistance: 20 m Ω MAX. ②No damage, crack or looseness of parts.						
Vibration		Frequency 10 to 55 Hz, single amplitude				(1)No electrical discontinuity of 1 μ s.				Х	-	
Shock		 0.75 mm, at 10 cycles for 3 direction. 490 m/s² duration of pulse 11 ms at 3 times each for 3 both 			or 3 both	ONo damage, crack or looseness of parts. \textcircled{O} No electrical discontinuity of 1 μ s.				v		
		axial directions.				() No electrical discontinuity of 1 μ s. (2) No damage, crack or looseness of parts.					Х	-
Environm	ental charac	teristics				-	0					
Damp heat		Exposed at 40 ± 2°C , 90 to 95 %, 96 h.				 Contact 	t resistance:	20 m Ω M/	AX.		Х	-
(Steady state)		(After leaving the room temperature for 1-2h.)			(2) Insulation resistance: 500 M Ω MIN.							
Rapid change of temperature		Temperature -55°C→ +85°C				(3)No damage, crack or looseness of parts. (1)Contact resistance: 20 m Ω MAX.					Х	- 1
		Time 30min→ 30min				(2) Insulation resistance: 1000 M Ω MIN.						
		Under 5 cycles.	ng time of the tank	ic 2 to 3 min)		③No da	mage, cracl	k or loosen	ess of part	s.		
			room temperature									
Resistance to		1) Automatic soldering (Flow)				No deformation of case of excessive looseness					v	1
soldering heat		Soldered at solder temperature 260°c for in immersing duration 10s.				of the terminals.					Х	
		2)Manual soldering										
		-	on temperature :3	300°C								
		Soldering tin										
	Solderability		No strength on contact. Soldered at solder temperature				A new uniform coating of solder shall cover					+
Solderability			245°c for in immersing duration 5 s.			minimum of 95 % of the surface being immersed.					Х	<u> </u>
,			°.									
Remarks	le the tomporation											
Remarks Note 1: Includ Note 2: No co	ondensing	e rising by current.										
Remarks Note 1: Includ Note 2: No co Note 3: Apply	ondensing to the condition o	e rising by current. of long term storag	ge for unused prod				nsportation					
Remarks Note 1: Includ Note 2: No co Note 3: Apply	ondensing to the condition o	e rising by current. of long term storag					nsportation.					
Remarks Note 1: Includ Note 2: No co Note 3: Apply	ndensing to the condition c d on PCB, operati	e rising by current. of long term storag	ge for unused prod nd humidity range			during tra	nsportation.	Ch	ecked		Da	ate
Remarks Note 1: Includ Note 2: No co Note 3: Apply After mounted	ndensing to the condition c d on PCB, operati	e rising by current. of long term storag on temperature ar	, ge for unused prod nd humidity range ff revisions		rim storage	during tra	nsportation.	SZ	z. ono		2018	092
Remarks Note 1: Includ Note 2: No co Note 3: Apply After mounted	ndensing to the condition c d on PCB, operati	e rising by current. of long term storag on temperature ar Description o	, ge for unused prod nd humidity range ff revisions		rim storage Desig	during tra	Approved	SZ	Z. ONO HS. OKAWA		2018 2017	092 091
Remarks Note 1: Includ Note 2: No co Note 3: Apply After mounted	ndensing to the condition c d on PCB, operati	e rising by current. of long term storag on temperature ar Description o	, ge for unused prod nd humidity range ff revisions		rim storage Desig	during tra		SZ	Z. ONO HS. OKAWA 5. FUKUSHIN	1A	2018 2017 2017	092 091 091
Remarks Note 1: Includ Note 2: No co Note 3: Apply After mounted Cour 1 1	ondensing to the condition of d on PCB, operation nt	e rising by current. of long term storag on temperature ar Description o DIS-H-00	e for unused prod nd humidity range of revisions 004240		rim storage Desig	during tra	Approved Checked Designed	SZ TS	Z. ONO HS. OKAWA 5. FUKUSHIN HT. SATO		2018 2017 2017 2017	092 091 091
Remarks Note 1: Includ Note 2: No co Note 3: Apply After mounted Cour 1 1	ondensing to the condition of d on PCB, operation nt	e rising by current. of long term storag on temperature ar Description o	e for unused prod nd humidity range of revisions 004240		rim storage Desig	during tra	Approved Checked	SZ TS	Z. ONO HS. OKAWA FUKUSHIN HT. SATO I. SAKIMUR	A	2018 2017 2017 2017 2017	092 091 091 091 091
Remarks Note 1: Includ Note 2: No co Note 3: Apply After mounted Cour 1 Unless oth	ondensing to the condition of d on PCB, operation nt	e rising by current. of long term storag on temperature ar Description o DIS-H-000	e for unused prod nd humidity range of revisions 004240	is applied for inte	rim storage Desig TS. KUM/	during tra	Approved Checked Designed Drawn	SZ TS	Z. ONO HS. OKAWA 5. FUKUSHIN HT. SATO	A	2018 2017 2017 2017 2017	092 091 091 091 091
Remarks Note 1: Includ Note 2: No co Note 3: Apply After mounted Cour 1 Unless oth	ondensing to the condition of d on PCB, operation nt	e rising by current of long term storag on temperature ar Description o DIS-H-000 fied, refer to IE st AT:Assurar	e for unused prod nd humidity range of revisions 004240 EC 60512.	is applied for inte	rim storage Desig TS. KUM/	Auring tra	Approved Checked Designed Drawn	SZ TS M EL	Z. ONO HS. OKAWA FUKUSHIN HT. SATO I. SAKIMUR	^A 594–00	2018 2017 2017 2017 2017	092 091 091 091 091

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