Applica	able s	tandar	d									
	Operating temperature rai		range	-55°C to + 105°C (Note 1) 20% to 80% (Note 2)		tempera	Storage temperature range		-10°C to + 60°C (Note			3)
Rating			ge			Storage humidit			40% to 70%		Note 3)	
	Ap	oplicable co	onnector 2				Current(*1)		45 A			
					DF60-*SCFA Voltage		1000V AC		AC/DC	C/DC		
Rat			ated volta	ge	Rated current		Overvoltage category I		IP-	- degree		
			600V AC/DO		65A(At ambient temp. 25°C)(No					_		
			600V AC/DO		See above (*1) (Temp. rise up 30		O°CMAX)				<u></u>	
TU	ÜV		600V AC/DO	;	See above (*				Ш	I	P00	
			1		Specifica	ations	3					1
	Item				Test method			Re	equirements		QT	AT
Constru			\r				14	ing to drawi				
General examination				Visually and by measuring instrument.  Confirmed visually.					ng.		X	X
Marking		4: - 4:		visually.							Χ	Χ
Electric Contact re				MAY 1	Δ		2m0	MAY				1
Millivolt level method			DCGV	DC6V MAX, 1A					2mΩ MAX.			
Insulation	n resist	ance	1000V	1000V DC.				MΩ MIN.			Х	_
Voltage p	Voltage proof			3000V AC for 1 min.				No flashover or breakdown.				_
Mechar	nical c	haracte	eristics				ı				l	
Mechanical operation			30 time	30 times insertions and extractions.				Contact resistance: 2mΩ MAX.     No damage, crack or looseness of parts.			Х	_
Vibration				Frequency 10 to 500 Hz, total amplitude 1.5 mm, acceleration					No electrical discontinuity of 1µs.     No damage, crack or looseness of parts.			
Shock				of 98 m/s <sup>2</sup> , at 2 h, for 3 directions.  490 m/s <sup>2</sup> duration of pulse 11 ms at 3 times for 3 directions.					① No electrical discontinuity of 1μs.			
3110CK 1490 II			450 11/5	o m/s duration of pulse 11 ms at 3 times for 3 directions.			② N o damage, crack or looseness of parts.			Х	_	
Environ	nment	al chara	acteristics									
Damp he			Exposed	posed at 40 ± 2 °c, 90 to 95 %, 96 h.			① Contact resistance: 2mΩ MAX.				Х	
(Steady state)								<ul> <li>Insulation resistance: 1000MΩ MIN.</li> <li>No damage, crack or looseness of parts.</li> </ul>				_
Rapid change of				Temperature -55°C→ +85°C				① Contact resistance: 2mΩ MAX.				
temperat	ture		_	Time 30min→ 30min Under 25 cycles.					<ul> <li>Insulation resistance: 1000MΩ MIN.</li> <li>No damage, crack or looseness of parts</li> </ul>			
			(The transf	erring tim	e of the tank is 2-3 min)		<b>3</b> c	amago, oracn	or reconnect or parts			
Dry heat			<del>- 1</del>		om temperature for 1-2h.)		① Con	tast resistan	2mo MAY		Х	
Dry neat			1 -	Exposed at 105 ± 2°C, 250h (After leaving the room temperature for 1-2h.)					① Contact resistance: $2m\Omega$ MAX. ② Insulation resistance: $1000M\Omega$ MIN. ③ No damage, crack or looseness of parts			
Resistance to soldering			①Solder b	①Solder bath method 2					Such as impaired function ,no deformation of			
heat				Solder temperature : 260°C for Immersion,duration : 10 sec .					case of excessive looseness of the terminals.			
			Immers 2Manual	,						<u>/2\</u>		
			Solderin	g iron te	mperature : 350±10°C							
				g time:								
				No strength on contact.  bldered at solder temperature,			Solder shall cover a minimum of				Х	_
			245°c1	or insertion duration, 5sec.			95 % of the surface being immersed.					
		temperatu	re rising by cu	rrent.								
	ply to the	e condition	-	_	r unused products before mount and humidity range is applied fo	-	torage du	ring transporta	ation.			
, c	Count		Descript	ion of re	evisions	Desig	gned		Checked		Da	ate
Δ	4			H-0000		TS. MI			SZ. ONO		2019	1022
Unless of	otherw	ise spec	cifid , refer t	o IEC	60512.			Approved	KI. AKIYAMA	A	2016	0407
								Checked	cked TS. FUKUSHIMA			0407
1								Designed	TS KUMAZAW	IA T	2016	0407

TS. KUMAZAWA

DF60-3P-10. 16DSA (27)

CL680-3001-7-27

ELC-336564-27-00

Drawn

Drawing no.

Part no.

Code no.

20160407

1/2

◬

QT:Qualification Test AT:Assurance Test X:Applicable Test

Specification sheet

Hirose electric co., ltd.

(Note 4)Derating curve takes manufacturing tolerances into consideration as well as uncertainties in temperature measurement and the measuring set up and is derived from the basic curve multiplied by 0.8 calculation.

(Note 5) Indicates the current that corresponds to the RTI value (temperature at which performance is halved) of the resin when the ambient temperature is 25°C. /2\

The value of rated current differs depending on the ambient temperature.

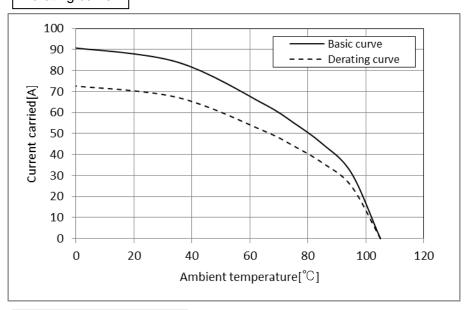
It is recommended to use the product within the derating curve zone.

(Note 6) Measurement method of derating curve is shown below.

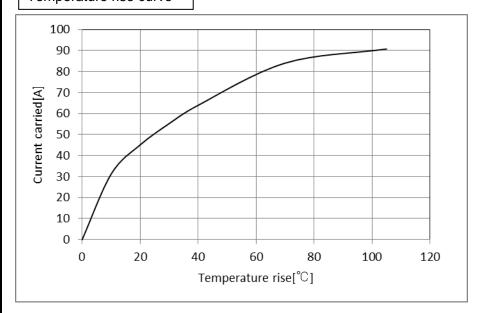
- Test specimen:Unused DF60-2P-10.16DS(27).
  - Unused DF60-2S-10.16C Unused DF60-8SCFA
- Test cable spec:AWG 8
- Test condition: Turn on electricity under the static state and measure.
   (Test report # TR680E-20766)

## [Reference]

## Derating curve



## Temperature rise curve



Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	Drawing	g no.	ELC-336564-27-00		
HS.	Specification sheet	Part no.	DF60-3P-10. 16DSA(27)			
	Hirose electric co., ltd.	Code no.	CL680	0-3001-7-27	A	2/2