Applicable	e sta	ndard												
Operating temperature rang		ige	-55°C to + 105°C (NOTE 1)		Storage temperature range			-10°C to + 60°C (NOTE 3)						
Rating	Operating humidity range			20% to 80% (NOTE 2)			Storage humidity			40% to	40% to 70% (NOTE 3)			
	Voltage			1000V AC/DC Applica			Applicat	ble		DF60※-			$\sqrt{2}$	
Curre		ent (*1)		ΔWG8 · 50Δ A		Application cable			P	AWG 8				
Rated volta							Overvoltage category IP-D			P-Degre	е			
UL 600\		OOV AC/DO	/DC AWG8:65A(AT ambient Temp			o. 25°C) (Note 5)			_		_	_		
C-UL 600		OOV AC/DO	OV AC/DC See above (*1) (Temp.			ise up 30°CMAX)			_					
TÜV 600V AC/			OOV AC/DO	See above (*1)				ш			IP00	IP00		
					Spe	cifica	ations	3						
It	em				Test method				REC	QUIREMENTS		QT	АТ	
Constructi														
General exa	minati	ion	,	and by measuring instrument.			According to drawing.				Х	Х		
Marking			Confirme	d visual	ly.							Х	Χ	
Electric c		acterist											1	
millivolt level n	nethod			MAX, 1	Α			2mΩ l	MAX.			X	_	
Mechanic														
Contact inse extraction fo		and	1.0±0.002 by steel gauge.				Insertion force 12.0 N MAX.  Extraction force 2.0 N MIN.				X	-		
Mechanical of	Mechanical operation		30times insertions and extractions.					①Contact resistance: 2 mΩ MAX. ②No damage, crack or looseness of parts.				Х	_	
Vibration	Vibration		Frequency 10 to 500 Hz, total amplitude 1.5mm, Acceleration 98m/s <sup>2</sup> , at 2h for 3 directions.					①No electrical discontinuity of 1 μ s. ②No damage, crack or looseness of parts.				Х	_	
Shock		490 m/s <sup>2</sup> duration of pulse 11 ms at 3 times each for 3 both axial directions.				r 3 both	①No electrical discontinuity of 1 μ s. ②No damage, crack or looseness of parts.				Х	_		
'		Apply wire tensile strength to caulking area axially until wire become loosen or breakdown.			ntil wire	AWG8 : 401N MIN				Х	_			
Environm	enta	al chara	acterist	ics				•						
Damp heat Exposed (steady state)			Exposed a	at 40 ± 2°C , 90 to 95 %, 96 h.			①Contact resistance: 2 mΩ MAX. ②No damage, crack or looseness of parts.				Х	_		
Rapid chang	e of		Temperature -55°C→ +85°C				O		: 2 mΩ MAX.					
temperature		Time 30MIN→ 30MIN Under 25 cycles.  (The transferring time of the tank is 2-3 MIN) (After leaving the room temperature for 1-2h.)				②No dan	nage, crack	or looseness of parts	S.	X	_			
Dry heat		Exposed at 105 ± 2°C, 250h (After leaving the room temperature for 1-2h.)				①Contact resistance: 2 mΩ MAX. ②No damage, crack or looseness of parts.				Х	-			
	densin	ng. condition of	long term	storage f	or unused products before and humidity range is				uring transp	portation.				
Coun			Descript				Desig			Checked		Da	ate	
1 DIS- Unless otherwise specifid , refer						TS. MI	YAKI		SZ. ONO		2018	1002		
			o IEC 60512.			Approved				_	0611			
								L	Checked	TS. FUKUS	HIMA	2015	0610	
									Designed	10111011111			0610	
Note QT:Qualification Test AT:Ass			urance Test X:Applicable Test			Ī	Drawn Drawing no.		MI. SAKIMURA 20150 ELC-342868-00-00					
нs			Speci	ificati	on sheet Part			no. DF60-8SC			SCA	A		
		HIROSE ELECTRIC CO., LTD.				Code	ode no. CL680-3021			00	Δ	1/3		

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

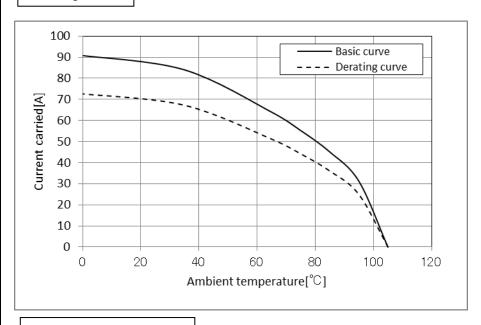
It is recommended to use the product within the derating curve zone.

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

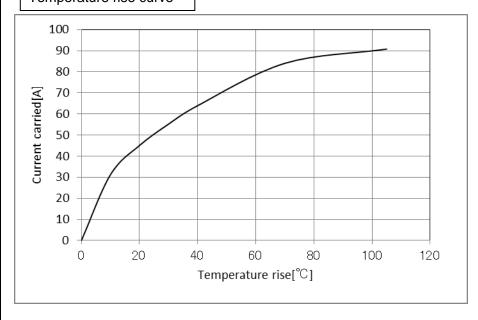
- Test specimen:Unused DF60-2P-10.16DS(27).
   Unused DF60-2S-10.16C
   Unused DF60-8SCFA
- Test cable spec:AWG 8
- Test condition: Turn on electricity under the static state and measure. (Test report # TR680E-20766)

#### [Reference]

## Derating curve



# Temperature rise curve

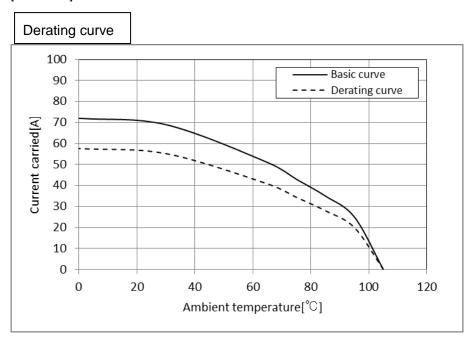


Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	G NO.	ELC-342868-00-00			
<b>HS</b>	SPECIFICATION SHEET	PART NO.		DF60-8SCA			
110	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL680	)-3021-4-00	Δ	2/3	

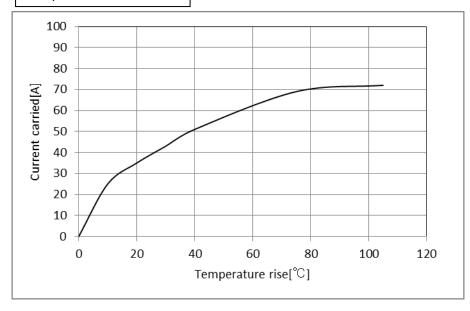
(Note 7) Measurement method of derating curve is shown below.

- Test specimen:Unused DF60-6P-10.16DS(27).
   Unused DF60-6S-10.16C
   Unused DF60-8SCFA
- Test cable spec:AWG 8
- Test condition: Turn on electricity under the static state and measure. (Test report # TR680E-20802)

### [Reference]



### Temperature rise curve



Note QT:Qu	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	G NO.	ELC-342868-00-00			
HS	SPECIFICATION SHEET	PART NO.		DF60-8SCA			
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL680	)-3021-4-00	Δ	3/3	