Applicable standard

	Opera	ting rature range	55	°°C +	DESC (NOTE 4)	Storage	turo rono	70	10°C to 1	cooc (NO	TE 2	`
Datina	Operating humidity range		-55	20% to 80% (NOTE 2) Stor.		Storage	humidity range		-10°C to + 60°C (NOTE 3)			
Rating			20						40% to 70	% (NOT	E 3)	
	Volta	ge		1 10000/ Δ(/1)(1 · ·		Applicab connector			DF60(R)-*S	S-10.16C(#	##)	
	Curre	nt (*1)	A۱	WG10	40A	Applicab						
				WG12	31A	cable			AWG	10-12		
Λ	Rated volta		tage		Rated curre	ent		0vervol	tage category	IP-D	egre	е
		0001/ 10	/DO		AWG10:55A/AWG1							
UL 600V AC/D				mbient Temp.25°				_	-	_		
C-UL		600V AC		See above	e(*1)(Temp. ris		CMAX)		_	-	_	
TUV		600V AC,	/DC		See above (*				Ш	IF	200	
					Specifica	ations	;					
	Item			Test me	ethod			REQ	JIREMENTS		QT	АТ
Construct	tion											
General exa	aminatic			measuring i	nstrument.		Accord	ing to drawin	g.		Χ	Х
Marking		Confir	med visua	lly.							Χ	Х
		cteristics										
Contact resis millivolt level		DC	SV MAX, 1	A			2mΩ	MAX.			Х	_
Mechani	ical ch	aracteristic	cs							L		
Contact ins		nd 1.0±0	0.002 by ste	02 by steel gauge.			Insertior		0 N MAX.		Χ	_
extraction for		004	Otimes insertions and extractions.				Extraction		N MIN.			
Mechanical operation 30time		is insertions and extractions.				①Contact resistance: 2 mΩ MAX. ②No damage, crack or looseness of parts.			Χ	_		
				mplitude 1.5mm,		①No electrical discontinuity of 1 μ s. ②No damage, crack or looseness of parts.				Х		
			n 98m/s², at 2h for 3 directions. ration of pulse 11 ms at 3 times each for 3 both				ectrical discont				_	
axial direc						②No damage, crack or looseness of parts.				Χ	_	
Crimp tensil strength	le			e tensile strength to caulking area axially until wire posen or breakdown.			AWG10 401N MIN AWG12 313N MIN				Χ	_
Environr	nenta	l character	stics							J		
Damp heat		Expose	ed at 40 ±	2°C , 90 to 9	5 %, 96 h.		①Conta	ct resistance: 2	2 mΩ MAX.		.,	
(steady stat								<u> </u>	r looseness of parts.		Χ	_
Rapid chang temperature			Temperature -55°C→ +85°C Time 30MIN→ 30MIN				①Contact resistance: 2 mΩ MAX. ②No damage, crack or looseness of parts				Χ	
temperature	5	_	30 IVIII 25 cycles.	MIN→ 30MIN s.			Zino damage, crack or looseness or parts.				^	-
		(The t	ransferring t	time of the ta	nk is 2-3 MIN)							
		(After l	eaving the re	oom tempera	ture for 1-2h.)							
Dry heat		Expose	Exposed at 105 ± 2°C, 250h				①Contact resistance: 2 mΩ MAX.				Χ	_
		(After l	eaving the re	oom tempera	ture for 1-2h.)		②No da	ımage, crack o	r looseness of parts.			
Remarks												
Note1: Includ		nperature rising b	y current.									
Note2: No co Note3: Apply	_		rm storage f	or unused pr	oducts before PCB	on board						
					d humidity range is a		nterim s	torage during t	ransportation.			
Cour	nt	Desc	ription of re	evisions		Design	ned		Checked		Da	ite
1 8 8	-		IS-H-00002			TS. KUMA			TS. FUKUSHIMA		17. 0	
-	nerwise	specifid, ref			I	. 0. 10///		Approved	KI. AKIYAM		15. 0	
		•						Checked	TS. FUKUSHII		15. 0	
								Designed	TS. KUMAZAW		15. 0	

Drawn

Drawing no.

Part no.

Code no.

MI. SAKIMURA

DF60-1012SCA

CL680-3022-7-00

ELC-342869-00-00

15.06.09

1/7

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

Specification sheet
HIROSE ELECTRIC CO., LTD.



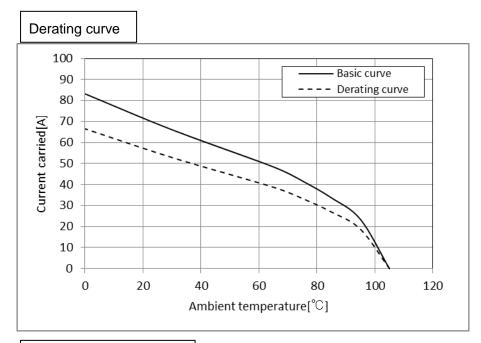
(Note 4)Derating curve takes manufacturing tolerances into consideration as well as uncertainties in temperature measurement and the measuring set up and is derived from the basic curve multiplied by 0.8 calculation.

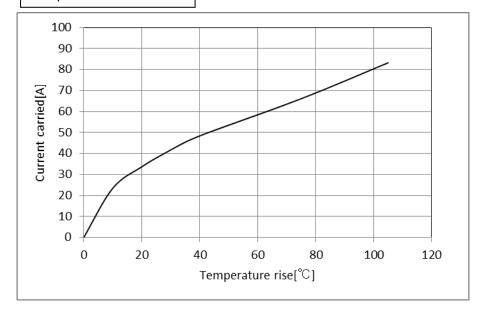
(Note 5)The value of rated current differs depending on the ambient temperature. It is recommended to use the product within the derating curve zone.

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

- Test specimen:Unused DF60-2P-10.16DS(27).
 Unused DF60-2S-10.16C
 Unused DF60-1012SCFA
- · Test cable spec:AWG 10
- Test condition: Turn on electricity under the static state and measure. (Test report # TR680E-20773)

[Reference]





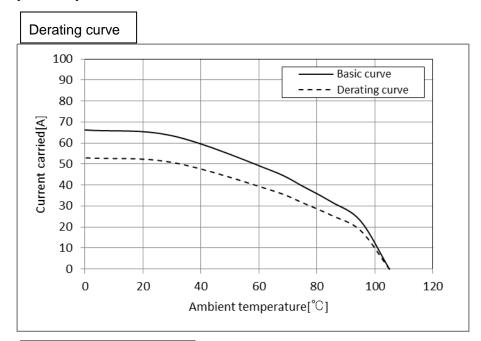
Note QT:Qu	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	G NO.	ELC-342869-00-00			
HS	SPECIFICATION SHEET	PART NO.	DF60-1012SCA				
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL680)-3022-7-00	\triangle	2/7	

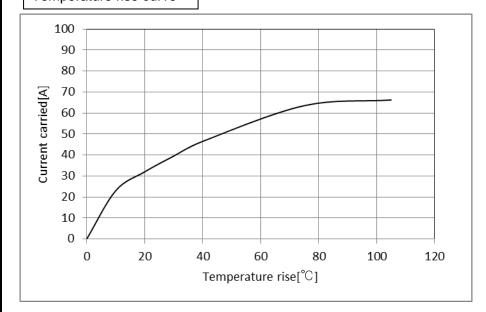


(Note 7) Measurement method of derating curve is shown below.

- Test specimen:Unused DF60-3P-10.16DS(27).
 Unused DF60-3S-10.16C
 Unused DF60-1012SCFA
- Test cable spec:AWG 10
- Test condition: Turn on electricity under the static state and measure. (Test report # TR680E-20802)

[Reference]



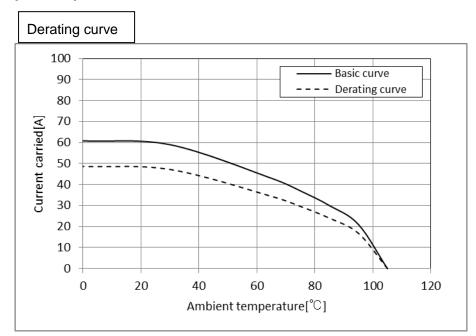


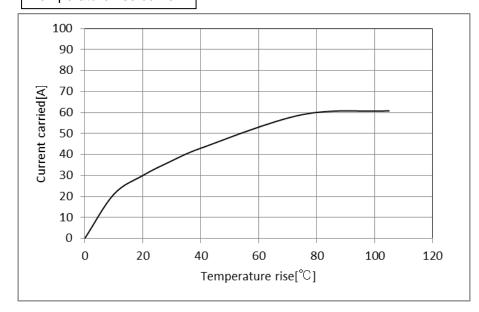
Note QT:Qu	ualification Test AT:Assurance Test X:Applicable Test	DRAWING NO. ELC-34286				0
HRS	SPECIFICATION SHEET	PART NO.		DF60-1012SCA		
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL680)-3022-7-00	Λ	3/7

(Note 8) Measurement method of derating curve is shown below.

- Test specimen:Unused DF60-6P-10.16DS(27).
 Unused DF60-6S-10.16C
 Unused DF60-1012SCFA
- Test cable spec:AWG 10
- Test condition: Turn on electricity under the static state and measure. (Test report # TR680E-20802)

[Reference]





Note QT:Qu	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	-00-00				
HS	LRS SPECIFICATION SHEET		RT NO. DF60-1012SCA				
1.0	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL680)-3022-7-00	Λ	4/7	

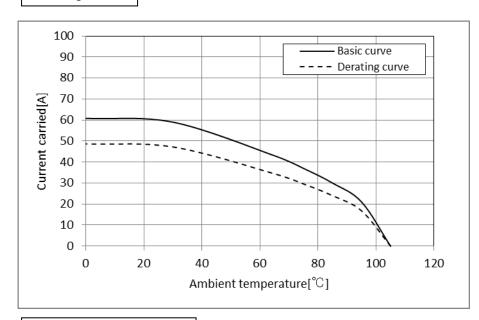


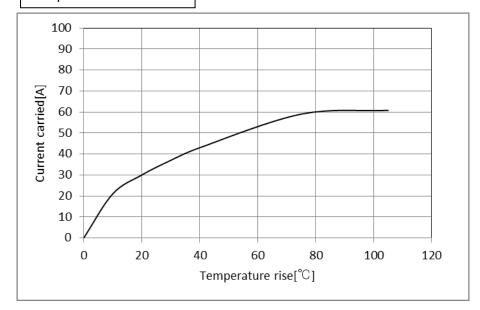
(Note 9) Measurement method of derating curve is shown below.

- Test specimen:Unused DF60-1P-10.16DS(27).
 Unused DF60-1S-10.16C
 Unused DF60-1012SCFA
- Test cable spec:AWG 12
- Test condition: Turn on electricity under the static state and measure. (Test report # TR680E-20802)

[Reference]

Derating curve





Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	-00-00)			
HS	LRS SPECIFICATION SHEET		PART NO. DF60-1012SC				
1.0	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL680)-3022-7-00	A	5/7	

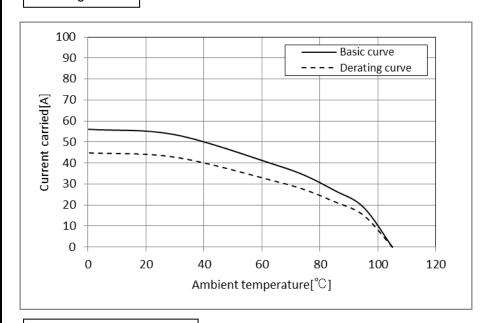


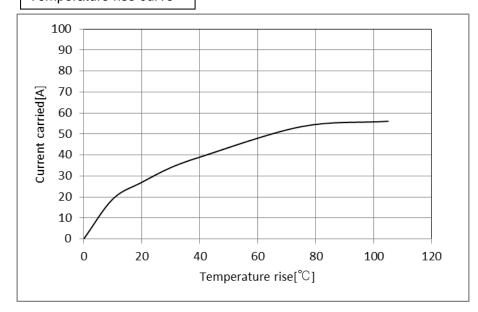
(Note 10) Measurement method of derating curve is shown below.

- Test specimen:Unused DF60-3P-10.16DS(27).
 Unused DF60-3S-10.16C
 Unused DF60-1012SCFA
- Test cable spec:AWG 12
- Test condition: Turn on electricity under the static state and measure. (Test report # TR680E-20802)

[Reference]

Derating curve





Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWING NO. ELC-342869-00-					
HS	RS SPECIFICATION SHEET		PART NO. DF60-1012SCA				
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL680)-3022-7-00	Δ	6/7	

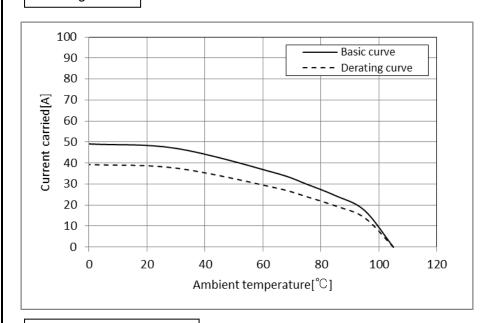


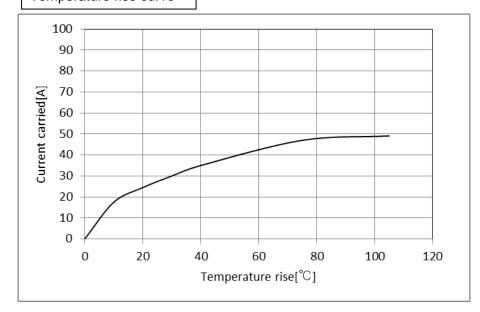
(Note 11) Measurement method of derating curve is shown below.

- Test specimen:Unused DF60-6P-10.16DS(27).
 Unused DF60-6S-10.16C
 Unused DF60-1012SCFA
- Test cable spec:AWG 12
- Test condition: Turn on electricity under the static state and measure. (Test report # TR680E-20802)

[Reference]

Derating curve





Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWING NO. ELC-342869-00-					
HS	SPECIFICATION SHEET		PART NO. DF60-1012SCA				
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL680)-3022-7-00	Δ	7/7	