File E134517
Project 02NB04196

April 16, 2002

REPORT

ON

COMPONENT - MOTOR CONTROLLERS, MAGNETIC

Xiamen Hongfa Electroacoustic Co. Ltd.
Fujian, China

DESCRIPTION

PRODUCT COVERED:

USR, CNR - Component - Switches, Industrial Control, Type JQX-115F and HF115F, may be followed by H, Blank or A, followed by 005-230, followed by 1H, 2H, 1D, 2D, 1Z or 2Z, may be followed by S, followed by 1 through 4, may be followed by A or B, may be followed by G, may be followed by F, may be followed by additional letters or numbers.

*USR, CNR - Component - Switches, Industrial Control, Type JQX-115F-Q and HF115F-Q, followed by 005-060, followed by 1H or 1D, **may be** followed by 3, may be followed by G, maybe followed by F, may be followed by additional letters or numbers.

*USR, CNR - Component - Switches, Industrial Control, Type JQX-115F-T, HF115F-TH, HF115F-T and HF115F-TH, followed by 005-060, followed by 1H or **1Z**, may be followed by S, followed by 3, **followed by B**, may be followed by G, may be followed by additional letters or numbers.

USR, CNR - Component - Switches, Industrial Control, Type JQX-115F-I or HF115F-I, followed by 005 to 110, followed by 1H, followed by Blank or S, followed by 3, followed by A, maybe followed by additional letters or numbers.

GENERAL:

These devices are enclosed, magnetically operated, single- or double-pole, single- or double-throw throw relays. SPST relays may have normally open or normally closed contacts.

USR - Investigated to Standard UL 508.

CNR - Investigated to Canadian Standard C22.2, No. 14.

ELECTRICAL RATINGS:

Contact – Version 1 or 2, Normal Coil (AgCdO)
12 A, 277 V ac, resistive, 50 K cycles
1/2 hp, 250 V ac
1/3 hp, 125 V ac

Version 1 or 2, Sensitive Coil (AgCdO)
10 A, 250 V ac, resistive

Version 1A or 2A, Normal Coil ($AgSnO_2$)
12 A, 277 V ac, resistive, 100 K cycles
B300
R300

Version 1B or 2B (AgNi)
12 A, 277 V ac, resistive, 100 K cycles

Version 3 (AgCdO)
16 A, 277 V ac, resistive, 50 K cycles
9 A, 250 V ac, resistive, 100 K cycles, 105°C
1 hp, 250 V ac
1/2 hp, 125 V ac
TV-5, 125 V ac
12 A, 277 V ac, resistive, 100K cycles (NO only), 40 °C
12 A, 120 V ac, resistive, 100K cycles (NO only), 40 °C

Version 3A ($AgSnO_2$)
16 A, 277 V ac, resistive, 75 K cycles
B300
R300
9.2 A, 120 V ac, general use, 100K cycles, 60°C
8.2 A, 120 V ac, resistive, 100K cycles, 60°C
1/2 HP, 250 V ac
1/3 HP, 125 V ac
5 FLA/30 LRA, 250 V ac, 30k cycles, 65 °C

Version 3B (AgNi)
16 A, 277 V ac, resistive, 100 K cycles
5 FLA/30 LRA, 250 V ac, 65°C, 30K cycles (require employ with Class F insulation system minimum)

Version 4 (AgCdO)
10 A, 250 V ac, resistive:
30 K cycles normally open
6 K cycles normally closed
8 A, 277 V ac, resistive, 30 K cycles
1/2 hp, 250 V ac
1/4 hp, 125 V ac

Version 4A ($AgSnO_2$)
8 A, 277 V ac, resistive, 75K cycles

Version 4B (AgNi)

8 A, 277 V ac, resistive, 100K cycles

JQX-115F-Q Version
20 A, 277 V ac, general use, 100K cycles, 124°C

JQX-115F-T/TH Version:
16 A, 277 V ac, general use, 100K cycles, 105°C

JQX-115F-I Version:
16A, 277 V ac, general use, 75K cycles, 40°C

AMBIENT TEMPERATURE: 85°C, unless otherwise noted.

NOMENCLATURE 1:

JQX-115F	-H	012	-1H	S	1	A	G	F	xxx
A	b	c	d	e	f	g	h	i	j

a. Model Designation
JQX-115F or HF115F

b. Coil Version
H = sensitive DC coil (for Version 1 or 2 only)
Blank = normal DC coil
A = normal AC coil

c. Coil Voltage
005 - 110 = 5 - 110 V dc
005 - 60 = 5 - 60 V dc (maximum for sensitive coil)
AC coil = 12 - **230** V ac

d. Contact Configurations
1H = SPST (NO)
2H = DPST (NO)
1D = SPST (NC)
2D = DPST (NC)
1Z = SPDT
2Z = DPDT

e. Sealing
S = sealed
Blank = unsealed

f. Version
1 = 3.5 mm, 1 pole
2 = 5 mm, 1 pole
3 = 5 mm, 1 pole
4 = 5 mm, 2 pole

g. Contact Material
Blank = AgCdO
A = $AgSnO_2$
B = AgNi

h. Contact Plating
Blank = None
G = Gold

i. Insulation
F = Class F
Blank = Class B

j. Special Code: May be followed by additional letters or numbers (does not affect the construction)

NOMENCLATURE 2:

JQX-115F-Q	012	-1H	*	3		G	F	XXX
a	b	c	d	e	f	g	h	i

a. Model Designation:
JQX-115F-Q or HF115F-Q

b. Coil Voltage:
005 - 060 = 5 - 60 V dc

c. Contact Configurations:
1H = SPST (NO)
1D = SPST (NC)

*d. Sealing:
Blank = **Flux Proof**

e. Terminal:
Nil = Vertical terminal (standard)
3 = Horizontal terminal

f. Contact Material:
Blank = AgNi

g. Contact Plating:
Blank = None
G = Gold

h. Insulation:
Blank or F = Class F

i. Special Code:
May be followed by additional letters or numbers (does not affected the construction)

NOMENCLATURE 3:

JQX-115F-T/TH	012	-1H	S	*3	**B**	G	XXX
a	b	c	d	e	f	g	**h**

a. Model Designation:
JQX-115F-T or HF115F-T 0.4W
JQX-115F-TH or HF115F-TH 0.25W

b. Coil Voltage:
005 - 060 = 5 - 60 V dc

c. Contact Configurations:
1H = SPST (NO)
1Z = SPDT

d. Sealing:
S = Sealed
Blank = Unsealed

e. **Version:**
3 = 5.0 mm

f. **Contact Material:**
B = AgNi

g. Contact Plating:
Blank = None
G = Gold

h. Special Code:
May be followed by additional letters or numbers (does not affected the construction)

NOMENCLATURE 4:

JQX-115F-I	012	-1H	S	3	A	xxx
a	b	c	d	e	f	g

a. Model Designation
JQX-115F-I or HF115F-I

b. Coil Voltage
005 - 110 = 5 - 110 V dc

c. Contact Configurations
1H = SPST (NO)

d. Sealing
S = sealed
Blank = unsealed

e. Version
3 = 5 mm

f. Contact Material
A = $AgSnO_2$

g. Special Code: May be followed by additional letters or numbers (does not affect the construction)