

# WJ115F3

#### **FEATURES:**

- UL F class rated standard
- Small size and light weight, low coil power consumption
- Heavy contact load, strong shock and vibration resistance
- UL/CUL certified





32.4(50) x 26.8 x 28.1 mm

### **CONTACT DATA**

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Contact Arrangement	1A = SPST N.O.
	1B = SPST N.C.
	1C = SPDT
Contact Rating	N.O. 40A @ 240VAC resistive, 28VDC; 30A @ 277VAC General Purpose
	2 hp @ 250VAC, 1 hp @ 125 VAC; 277VAC (FLA-20A) (LRA-60A)
	N.C. 30A @ 240VAC resistive, 30VDC; 20A @ 277VAC General Purpose
	1 1/2 hp @ 250VAC, ¾ hp @ 125 VAC; 277VAC (FLA-10A) (LRA-33A)
Contact Resistance	< 30 milliohms initial
Contact Material	AgSnO <sub>2</sub>
Maximum Switching Power	9600VA, 1120W
Maximum Switching Voltage	277VAC, 110VDC
Maximum Switching Current	40A

#### **COIL DATA**

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Coil Voltage VDC		Coil Resistance $\Omega \pm 10\%$		Pick Up Voltage VDC (max)	Release Voltage VDC (min)	Coil Power W	Operate Time ms	Release Time ms
				75%	10%			
Rated	Max.	0.6W	0.9W	of rated voltage	of rated voltage			
3	3.9	15	10	2.25	0.3			
5	6.5	42	28	3.75	0.5			
6	7.8	60	40	4.50	0.6			
9	11.7	135	90	6.75	0.9			
12	15.6	240	160	9.00	1.2	.60	15	10
15	19.5	375	250	10.25	1.5	.90		
18	23.4	540	360	13.50	1.8			
24	31.2	960	640	18.00	2.4			
48	62.4	3840	2560	36.00	4.8			
110	140.3	20167	13445	82.50	11.0			

#### **AC Coil Parameters**

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Coil V	oltage	Coil Resistance	Pick Up Voltage	Release Voltage	Coil Power	Operate Time	Release Time
VAC		$\Omega \pm 10\%$	VDC (max)	VDC (min)	VA	ms	ms
			75%	30%			
Rated	Max.		of rated voltage	of rated voltage			
12	15.6	27	9.0	3.6			
24	31.2	120	18.0	7.2			
110	143	2360	82.5	33	2)./A	45	10
120	156	3040	90	36	2VA	15	10
220	286	13490	165	66			
240	312	15320	180	72			
277	360	20210	207	83.1	]		

#### **CAUTION:**

- 1. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.
- 2. Pickup and release voltages are for test purposes only and are not to be used as design criteria.

CIT RELAY Website: www.citrelay.com Tel: 763-535-2339 Fax: 763-535-2194



# **GENERAL DATA**

Electrical Life @ rated load	100K cycles, typical				
Mechanical Life	10M cycles, typical				
Insulation Resistance	100MΩ min @ 500VDC				
Dielectric Strength, Coil to Contact	2500V rms min. @ sea level				
Contact to Contact	1500V rms min. @ sea level				
Shock Resistance	200m/s <sup>2</sup> for 11ms				
Vibration Resistance	1.50mm double amplitude 10-40Hz				
Terminal (Copper Alloy) Strength	10N				
Operating Temperature	-55 °C to + 125 °C				
Storage Temperature	-55 °C to + 155 °C				
Solderability	230 °C ± 2 °C for 10 ± 0.5s				
Weight	37g				

#### ORDERING INFORMATION

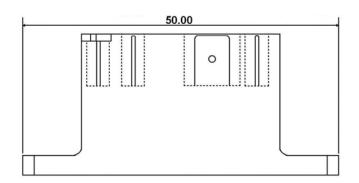
1. Series: WJ115F3 1A 12VDC S .6 WJ115F3 2. Contact Arrangement: 1A = SPST N.O. 1B = SPST N.C. 1C = SPDT 3. Profile: Blank = Standard Profile L = Low Profile 4. Coil Voltage: 3VDC 5VDC 6VDC 9VDC 12VDC 15VDC 18VDC 18VDC 110VDC 12VAC 24VDC 48VDC 110VAC 110VAC 120VAC 220VAC 240VAC 220VAC 240VAC 240VAC 25. Sealing Options: S = Sealed (standard) N = No cover C = Cover L = Cover shipped bulk 6. Coil Terminals: Blank = .187" quick connects A = .110' quick connects 7. Coil Power: 9 = 9W DC Coil .6 = .6W DC Coil Blank = 2VA ((AC Coil)	ORDERING INFORMATION	ON				
## SPST N.O.  1A = SPST N.C.  1C = SPDT  3. Profile:  Blank = Standard Profile  L = Low Profile  4. Coil Voltage:  3VDC  5VDC  6VDC  9VDC  15VDC  15VDC  18VDC  11VDC  110VDC  12VAC  24VAC  110VAC  110VAC  120VAC  220VAC  240VAC  240VAC  27TVAC  5. Sealing Options:  S = Sealed (standard)  N = No cover  C = Cover  L = Cover shipped bulk  6. Coil Terminals:  Blank = .187" quick connects  A = .110' quick connects  7. Coil Power:  .9 = .9W DC Coil  .6 = .6W DC Coil	1. Series:	WJ115F3	1A	12VDC	S	.6
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3. Profile: Blank = Standard Profile L = Low Profile 4. Coil Voltage: 3VDC 5VDC 6VDC 9VDC 12VDC 15VDC 15VDC 15VDC 15VDC 15VDC 110VDC 12VAC 24VDC 48VDC 110VAC 110VAC 120VAC 220VAC 220VAC 220VAC 250VAC 250VAC 250VAC 260VAC 277VAC 5. Sealing Options: S = Sealed (standard) N = No cover C = Cover L = Cover shipped bulk 6. Coil Terminals: Blank = .187" quick connects A = .110' quick connects 7. Coil Power: .9 = .9W DC Coil .6 = .6W DC Coil	1B = SPST N.C.					
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L = Low Profile  4. Coil Voltage:  3VDC  5VDC  6VDC  9VDC  12VDC  15VDC  15VDC  18VDC  24VVDC  48VDC  110VDC  12VAC  24VAC  110VAC  120VAC  220VAC  220VAC  250VAC  250VAC  277VAC  5. Sealing Options:  S = Sealed (standard)  N = No cover  C = Cover  L = Cover shipped bulk  6. Coil Terminals: Blank = .187" quick connects  A = .110' quick connects  7. Coil Power:  9 = .9W DC Coil  6 = .6W DC Coil						
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5VDC 6VDC 9VDC 12VDC 15VDC 15VDC 18VDC 24VDC 48VDC 110VDC 12VAC 24VAC 2110VAC 220VAC 220VAC 220VAC 220VAC 2						
6VDC 9VDC 12VDC 15VDC 15VDC 18VDC 24VDC 48VDC 110VDC 12VAC 24VAC 110VAC 120VAC 220VAC 220VAC 250VAC 277VAC  5. Sealing Options: S = Sealed (standard) N = No cover C = Cover L = Cover shipped bulk 6. Coil Terminals: Blank = .187" quick connects A = .110' quick connects 7. Coil Power: 9 = .9W DC Coil 6 = .6W DC Coil						
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18VDC 24VDC 48VDC 110VDC 12VAC 24VAC 110VAC 120VAC 220VAC 220VAC 220VAC 240VAC 5. Sealing Options: S = Sealed (standard) N = No cover C = Cover L = Cover shipped bulk 6. Coil Terminals: Blank = .187" quick connects A = .110' quick connects 7. Coil Power: 9 = .9W DC Coil .6 = .6W DC Coil						
24VDC 48VDC 110VDC 12VAC 24VAC 110VAC 120VAC 120VAC 220VAC 240VAC 277VAC  5. Sealing Options: S = Sealed (standard) N = No cover C = Cover L = Cover shipped bulk  6. Coil Terminals: Blank = .187" quick connects A = .110' quick connects 7. Coil Power: 9 = .9W DC Coil 6 = .6W DC Coil	15VDC					
24VDC 48VDC 110VDC 12VAC 24VAC 110VAC 120VAC 120VAC 220VAC 240VAC 277VAC  5. Sealing Options: S = Sealed (standard) N = No cover C = Cover L = Cover shipped bulk  6. Coil Terminals: Blank = .187" quick connects A = .110' quick connects 7. Coil Power: 9 = .9W DC Coil 6 = .6W DC Coil	18VDC					
110VDC 12VAC 24VAC 110VAC 110VAC 120VAC 220VAC 240VAC 277VAC  5. Sealing Options: S = Sealed (standard) N = No cover C = Cover L = Cover shipped bulk  6. Coil Terminals: Blank = .187" quick connects A = .110' quick connects 7. Coil Power: .9 = .9W DC Coil .6 = .6W DC Coil						
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24VAC 110VAC 120VAC 220VAC 240VAC 277VAC  5. Sealing Options: S = Sealed (standard) N = No cover C = Cover L = Cover shipped bulk  6. Coil Terminals: Blank = .187" quick connects A = .110' quick connects 7. Coil Power: 9 = .9W DC Coil 6 = .6W DC Coil	110VDC					
110VAC 120VAC 220VAC 240VAC 277VAC  5. Sealing Options: S = Sealed (standard) N = No cover C = Cover L = Cover shipped bulk 6. Coil Terminals: Blank = .187" quick connects A = .110' quick connects 7. Coil Power: 9 = .9W DC Coil 6 = .6W DC Coil	12VAC					
120VAC 220VAC 240VAC 277VAC  5. Sealing Options: S = Sealed (standard) N = No cover C = Cover L = Cover shipped bulk  6. Coil Terminals: Blank = .187" quick connects A = .110' quick connects 7. Coil Power: 9 = .9W DC Coil 6 = .6W DC Coil	24VAC					
220VAC 240VAC 277VAC  5. Sealing Options: S = Sealed (standard) N = No cover C = Cover L = Cover shipped bulk  6. Coil Terminals: Blank = .187" quick connects A = .110' quick connects 7. Coil Power: .9 = .9W DC Coil .6 = .6W DC Coil	110VAC					
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277VAC  5. Sealing Options: S = Sealed (standard) N = No cover C = Cover L = Cover shipped bulk  6. Coil Terminals: Blank = .187" quick connects A = .110' quick connects 7. Coil Power: .9 = .9W DC Coil .6 = .6W DC Coil	220VAC					
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S = Sealed (standard) N = No cover C = Cover L = Cover shipped bulk  6. Coil Terminals: Blank = .187" quick connects A = .110' quick connects  7. Coil Power: .9 = .9W DC Coil .6 = .6W DC Coil	277VAC					
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7. Coil Power: .9 = .9W DC Coil .6 = .6W DC Coil						
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Blank = 2VA (AC Coil)						
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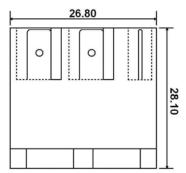
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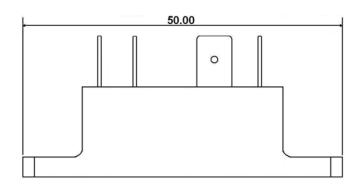
**DIMENSIONS:** (Units = mm)

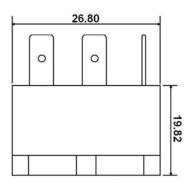
\*\*Quick Connect Terminals: Contacts – 6.35 X .81mm (.250" X .032") Coil – 4.75 X .50mm (.187" X .020") standard





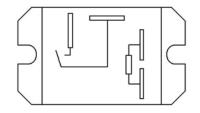
# **Standard Profile Version**

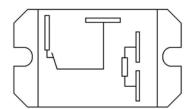


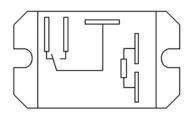


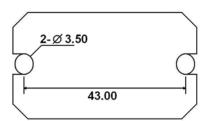
**Low Profile Option** 

# **SCHEMATICS & MOUNTING DIAGRAM**









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