



## Watlow Agency Approved Products

This list includes all Watlow Controls catalog products that are UL and C-UL Recognized or Listed, CSA Certified, AGA Certified, FM Approved, VDE Certified, NSF Certified and CE Approved. For other part numbers, specials, or modifications, consult factory.

Many of Watlow's products are considered "components," and are to be installed in proper enclosures in compliance with local and national electrical codes.

This document is provided for reference only. For official listings, consult Watlow Controls Agency Coordinator.



**This document is subject to change without notice. Please consult the applicable Watlow product manager if you have any questions.**




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### **The agency listings (standards) fall into the following categories:**

- \* UL50 - Type 4X Watertight and Corrosion Resistant Indoor/Outdoor. Equivalent to NEMA 4X
  - \* UL197 - Commercial Cooking Appliances
  - \* UL508 - Industrial Control Equipment
  - \* UL873 - Temperature Indicating and Regulating Equipment
  - \* UL916 - Energy Management Equipment
  - \* UL917 - Clock Operated Switches
  - \* UL 991 - Test for Safety Related Controls Employing Solid State Devices
  - \* UL1604 - Electrical Equipment for use in Class I and II, Division 1 & 2, and Class III Hazardous (Classified) Locations
  - \* UL 3101 – Electrical equipment for laboratory use
  - \* UL 3121 – Process Control Equipment
  - \* C-UL - UL tested to CSA Std C22.2 NO. 14, Industrial Control Equipment- Miscellaneous Apparatus or CSA Std C22.2 NO. 24, Temperature Indicating and Regulating Equipment or C22.2 No. 177, Clock Operated Switches or C22.2 NO. 142 Process Control Equipment
  - \* CSA Standard C22.2 NO. 14 - Industrial Control Equipment- Miscellaneous Apparatus
  - \* CSA Standard C22.2 NO. 24 - Temperature Indicating and Regulating Equipment
  - \* CSA Standard C22.2 NO. 177 - Clock Operated Switches
  - \* CSA Standard C22.2 NO. 205M - Signal Equipment
  - \* CSA Standard C22.2 NO. 142 - Process Control Equipment
  - \* AGA Standard ANSI Z21.23 - Gas Appliance Thermostats
  - \* FM Standard 3545 - Temperature Limit Switches
  - \* ANSI/NSF4 - Commercial Cooking Rethermalization and Powered Hot Food Holding and Transport Equipment
  - \* NSF Criteria 2 - Special Equipment and/or Devices
  - \* VDE Standard 0160 - Electronic Equipment For Use in Power Installations (Equivalent to EN50178)
  - \* VDE 0805 - Safety for Information Technology Equipment including Business Equipment
  - CE (*Conformite Europeenne*) European Conformity - EN (*European Normalisation*) European Norm Standards, which comprise the EMC Directive, 89/336/EEC, and the Low Voltage (Safety) Directive, 73/23/EEC, and are applicable to Watlow control products. These EN Standards must be met if the product is to be sold in the European Union. **Consult the Watlow manufacturing facility for specific EN Standards applicable to specific product model numbers.**
- \*IP 65 Enclosure (or front panel) is dust-tight and protected against powerful water jets. IP (International Protection) codes are defined in EN 60529, *Degrees of Protection Provided by Enclosures (IP Code)*.

### **Note:**

UL Recognition  denotes that product will be a Recognized Component of another system when final temperature tests and spacings are verified in the final system. The product is not considered a "Stand Alone" product. The use of a Recognized Component in a product or system allows UL to evaluate the product or system on its intended application and accelerates the final system approval. UL and c-UL Component Recognized products may also be shown with the combined mark .





UL Listed   means that the product has been tested to all applicable nationally recognized safety standards. UL and c-UL Listed products may also be shown with the combined mark .



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## Underwriters Laboratories Product Listing Categories

Control Category Number (CCN) – What application(s) equipment is approved for by UL.

Approval	CCN	Description
		Listed Product (XXXX) 4 digit UL classification code.
		Recognized Product (XXXX2) - Component
		Listed product (XXXX7) Listed product approved for use in Canada.
		Recognized product (XXXX8) Recognized product approved for use in Canada. - Component

(NKCR)	Auxiliary Devices
(NLDX)	Magnetic
(NMFT)	Motor Controllers, Miscellaneous
(NRAQ)	Programmable Controllers
(NRNT)	Switches, Industrial Control
(QUCW)	Process Control Equipment for use in Hazardous Locations
(QUXY)	Process Control Equipment
(QUYX)	Process Control Equipment, Electrical
(WGZR)	Switches, Clock-operated
(XAPX)	Temperature-Indicating and Regulating Equipment
(XPTQ)	Transformers, General Purpose

Marks used in this Document and found on products.

	= <b>UR</b> Underwriters Laboratories Component Recognition.
	= <b>c-UR</b> Underwriters Laboratories Component Recognition – With Canadian Requirements
	= <b>cURus</b> Underwriters Laboratories Component Recognition – Both United States and Canada
	= <b>UL</b> Underwriters Laboratories Listed Product
	= <b>c-UL</b> Underwriters Laboratories Listed Product – With Canadian Requirements
	= <b>cULus</b> Underwriters Laboratories Listed Product – Both United States and Canada
	= <b>CSA</b> Canadian Standards Association Approved.
	= <b>CSAus</b> Canadian Standards Association Approved and/or for use in Gas Appliances (Replaces  )
	= <b>CE</b> European Certified Product
	= <b>FM</b> Factory Mutual Approved (Limit Controls)
	= <b>TÜV</b> Product Service – German Approval Agency
	= <b>VDE</b> German Approval Agency
	= <b>NSF</b> National Sanitation Foundation

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**Series/Model/Listing/File Number**

**X = any number or letter.**

**80 Series, AGA changed to CSAus 3/2/01**

**UR 873** Recognized (197 Reviewed), File E43684 Vol. 2, Sec. 12 (NKCR2), (XAPX2)  
80(A, B or M)(1, 2, 3, 4 or 5) – (1, 2 or 3)(300-399 or 600-799) – (1 or 2)(0-9 or A-Z)(00 or AA-ZZ)  
**CSAus**, ANSI Z21.23, File #23.1C Gas Appliance Thermostats  
80(A, B)(1, 2 or 3) – (1 or 2)(601, 602, 604, 616, 692) – (1 or 2)000.  
**CSA** Class 4813 02 File # LR30586-5  
80(A or B)X-XXXX-XXXX.

**80M6 Series**

**UR, c-UR 3121** Recongized File E43684 Vol 7, Sec 1 (XAPX2)(XAPX8)  
80M6 – (1 or 2)(any three numbers) – 2(any 3 letters or numbers) As of 12/12/01

**92 Series OBSOLETE 7-7-00**

**93 Series**

**UL, c-UL 508** Listed File #E102269 Vol 2, Sec 2. Industrial Control Equipment **88CM** (NKCR)(NKCR7)  
93(A or B)(A or B) – 1(C, D, F or K)(A, C, D or K)(0 or 1) – (XXXX)  
**UL 50** Recognized (Case only to NEMA 4X and 12), IP65 (EN60529) (93BX-XXXX-XXXX)  
**CE 89/336/EEC** (EN 61326), Class A, 73/23/EEC (EN 61010-1)  
93(A or B)B – 1(C, D, F or K)(A, C, D or K)(0 or 1) – (XXXX)

**94 Series**

**FM** Class 3545, File #J.I.OD5A1.AF **Temperature Limit Switches, Indicating**  
94(A or B)(A or B) – 1D(A, C, D or K)(0 or 1) – XXXX  
**CE 89/336/EEC** (EN 61326), Class A, 73/23/EEC (EN 61010-1)  
94(A or B)B – 1D(A, C, D or K)(0 or 1) – XXXX  
NEMA 4X and 12, IP65 (EN60529) (94BX-XXXX-XXXX Only)

**96 Series**

**UL, c-UL 916** Listed, File E185611 Vol 2, Sec 2, Process Control Equipment **93RL** (QUXY)(QUXY7)  
96(A or B)(0 or 1) – (C, D, F or K)(A, C, D, F or K)(A or D)(A, D, M or U) – (XXXX)  
Z100-0739-000(1-8) Modules covered under same UL file.  
**UL 50** Recognized (Case only to NEMA 4X and 12) IP65 (EN60529)  
**CE 89/336/EEC** (EN 61326), Class A, 73/23/EEC (EN61010-1)  
96(A or B)(0 or 1) – (C, D, F or K)(A, C, D, F or K)(A or D)(A, D, M, R or U) – (XXXX)

**97 Series**

**FM** Class 3545, File #J.I. 1B5A6.AF **Temperature Limit Switches, Indicating**  
97(A or B)(0 or 1) – D(A, C, D or K)(A or D)(A, D, M, R or U) – XXXX  
**CE 89/336/EEC** (EN 61326), Class A, 73/23/EEC (EN 61010-1)  
97(A or B)(0 or 1) – D(A, C, D or K)(A or D)(A, D, M, R or U) – XXXX  
**UL 50** Recognized (Case only to NEMA 4X and 12) IP65 (EN60529)

**100 Series**

**UR, CSA, CSAus**

**Obsolete 4/3/02**

**101 Series**

**UR, c-UR 873** Recognized, File # E43684 Vol 1, Sec 38 (XAPX2) (XAPX8)  
101(A, B, C, or K) – (1, 2 or 3)(600-699) – (00 or 01)(XX)  
**CE 89/336/EEC** (EN 61326), Class B, 73/23/EEC (EN 61010-1)  
101(A, B or C) – (1, 2 or 3)(Any 3 numbers) – (XXXX)  
ANSI Z21.23a & Z21.33, File #E43684 UL Tested to AGA standards. (Not AGA approved)

**102 Series**

**UR, c-UR 873** Recognized File # E43684 Vol 1, Sec 42 (XAPX2)(XAPX8)  
102(C, D or K) – (1, 2 or 3)(any 3 numbers) – (1 or 2)(XXX) (since 8-18-00)  
**CE 89/336/EEC** (EN 61326) Class B, 72/23/EEC, (EN 61010-1) (since 8-18-00)  
102(C, D or K) – (1, 2 or 3)(100-999) – (1 or 2)(XXX)

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**Series/Model/Listing/File Number** X = any number or letter

**103 Series**

**UR, c-UR** 873 Recognized File # E43684 Vol 1, Sec 41 (XAPX2)(XAPX8)  
103(C, E or K) – (1, 2 or 3)(any 3 numbers) – (1 or 2)(0, N, S or P)(XX)  
**CE** 89/336/EEC (EN 61326) Class B, 72/23/EEC, (EN 61010-1)  
103(C, E or K) – (1, 2 or 3)(100-999) – (1 or 2)(XXX)

**104 Series**

**UR, c-UR** 873 Recognized File # E43684 Vol 1, Sec 40 (XAPX2)(XAPX8)  
104(C, E or K) – (1, 2 or 3)(any 3 numbers) – (1 or 2)(0, N, S or P)(XX) (since 8-18-00)  
**CE** 89/336/EEC (EN 61326) Class B, 72/23/EEC, (EN 61010-1)  
104(C, E or K) – (1, 2 or 3)(100-999) – (1 or 2)(XXX)

**140 Series OBSOLETE 7-7-00**

**142 Series**

**UR, c-UR** 873 Recognized File # E43684 Vol 2, Sec 30 (XAPX2)(NRNT2)(XAPX8)  
UR, c-UR as a temperature limit 142A – 3(600-999) – (1 or 2)(1, 2, 3 or 4)(00 or AA-ZZ)  
UR, c-UR as a temperature regulator 142A – (2 or 3)(600-999) – (1 or 2)(1, 2, 3 or 4)(00 or AA-ZZ)  
**CSAus** Certification C3236001, 23.1C Gas Appliance Thermostats **3/2/01 AGA changed to CSAus mark**  
142A – (2 or 3)(600-999) – (1 or 2)(2, 3 or 4)(00 or AA-ZZ)  
**CE** 89/336/EEC (EN 61326), Class B, 73/23/EEC (EN 60730-1, 60730-2-9)  
142A – (2 or 3)(600-999) – (1 or 2)(2, 3 or 4)(XX)

**145 Series** Only approved as a limit control by UL if conformal coated.

**UR, c-UR** 873 Recognized File # E43684 Vol 1, Sec 41 (XAPX2)(XAPX8)  
145D – (1, 2 or 3)(any 3 numbers) – (1, 2, 3 or 4)(0 or 2)(XX) (since 8-18-00)  
**FM** Class 3545 File # J.I. 3008516 **Temperature Limit Switches, Nonindicating**  
145D – (1, 2 or 3)(XXX) – (1, 2, 3 or 4)(XXX)  
**CE** 89/336/EEC (EN 61326), Class B, 73/23/EEC (EN 61010-1)  
145D – (1, 2 or 3)(100-999) – (1, 2, 3 or 4)(XXX)

**146 Series** Only approved as a limit control by UL if conformal coated.

**UR, c-UR** 873 Recognized File # E43684 Vol 1, Sec 41 (XAPX2)(XAPX8)  
146E – (1, 2 or 3)(any 3 numbers) – (1, 2, 3 or 4)(0, 2, M, N, S, T, P or C)(XX)  
**FM** Class 3545 File # J.I. 3007307  
146E – (1, 2 or 3)(XXX) – (1, 2, 3 or 4)(XXX)  
**CE** 89/336/EEC (EN 61326), Class B, 73/23/EEC (EN 61010-1)  
146E – (1, 2 or 3)(100-999) – (1, 2, 3 or 4)(XXX)

**147 Series** Only approved as a limit control by UL if conformal coated.

**UR, c-UR** 873 Recognized File # E43684 Vol 1, Sec 40 (XAPX2)(XAPX8)  
147E – (1, 2 or 3)(any 3 numbers) – (1, 2, 3 or 4)(0, 2 M, N, S, T, P or C)(XX) (since 8-18-00)  
**FM** Class 3545 File # J.I. 3008516 **Temperature Limit Switches, Nonindicating**  
147E – (1, 2 or 3)(XXX) – (1, 2, 3 or 4)XXX  
**CE** 89/336/EEC (EN 61326), Class B, 73/23/EEC (EN 61010-1)  
147E – (1, 2 or 3)(100-999) – (1, 2, 3 or 4)XXX

**160 Series**

**UR** 873 Recognized, File E43684 Vol 2, Sec 26 (NRNT2)(XAPX2)  
160(A or B) – (1 or 2)(A, B or C)(01 – 24) – (1 or 2)(0 – 9)(00 or AA-ZZ)

**365 Series** **Obsolete 5-18-00**

**400 Series**

**UR** 873 Recognized, File E43684 Vol 2, Sec 23 (NKCR2)(XAPX2)  
40(1, 2 or 8)(B, C, D, F, G, H, J, K or L) – (0 or 1)(100-199 or 300-399 or 600-699) – (0, 1 or 2)00(0 or A-Z)

**550 Series**

**UR, c-UR** 873 Recognized File # E43684 Vol 1, Sec 39 (XAPX2)(XAPX8)  
550A – (1, 2 or 3)(600-699) – (F, C or B)(R or G)(XX) NEMA 4X

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**Series/Model/Listing/File Number** X = any number or letter

**733/734 Series**

**UR 873** Recognized (197,991 Reviewed), File #E43684 Vol 1, Sec 33 (NKCR2), (XAPX2)

73(3 or 4)(A-Z) – (0-9 or A-Z)(A-H, or K)(A-H or K)(0-9) – (A-H or K)(A-Z)(00 or AA-ZZ)

**CSA, C22.2 NO. 24, File #LR30586-29**

73(3 or 4)(A or C) – (1, 2, 4, 5 or 6)(B, C, D, E, F, H or K)(A, B, C, D, E, F, H or K)(0 or 1), (A or D)(A, B or D)(XX).

**CE 89/336/EEC (EN50082-1, EN50082-2, EN50081-2), Class B, CE 73/23/EEC (EN60730-1)**

733-4BB1-AAAG

**920/922 Series OBSOLETE 7-7-00**

**935 Series**

**UL, c-UL 508** Listed, File #E102269 Vol 2, sec 1 Industrial Control Equipment **88CM** (NKCR)(NKCR7)

935(A-Z) – (0-9)C(C, D, or K)(0 or 1) – (XXXX)

**UL50** (Case only to NEMA 4X), IP65 (EN60529)

**CE 89/336/EEC (EN 61326), Class A, CE 73/23/EEC (EN61010-1)**

935(A or B) – 1C(C, D or K)(0 or 1) – (XXXX)

**942/945 Series**

**UR 873** Recognized, File #E43684 Vol 1, Sec 32 (NKCR2), (XAPX2)

94(2A or 5A) – (1-9 or A-Z)(0, or A-H, K or L)(0-9 or A-Z) – (A-Z)(0-9 or A-Q, S, T, W-Z)(00 or AA-ZZ)

**CSA, C22.2 NO. 24, File #LR30586-14**

94(2A or 5A) – (1 to 9 or A to Z)(0 or A, B, C, D, F, H or K)(0 or A, B, C, D, F, H, K or L)(0-9 or A-Z)

– (A to Z)(0-9 or A-Q, S, T, W, X, Y or Z)(00 or AA to ZZ)

**FM 3545, File #J.I.0Y6A4.AF Temperature Limit Switches, Indicating**

945A – (1, 2 or 3)(CA2) – (A, B or D)JXX

**965 Series OBSOLETE 7-7-00**

**TDC-369**

**UR, c-UR**

**File Closed 8/29/01**

**F4 Series**

**UL, c-UL916** Listed, File E185611 Vol 2, Sec 1, Process Control Equipment **93RL** (QUXY)(QUXY7)

F4(D, P or S)(H or L) – (C, E, F or K)(A, C, E, F or K)([F4S or F4P = X] or [F4D = A, C, F or K])

([F4P or F4S = 0 or 6] or [F4P = X] or [F4D = A, C, F, K]) – (0, 1 or 2)(XXX)

Z100-0745-000(1-7) Module options.

**UL50** (Case only to NEMA 4X), IP65 (EN60529)

**CE 89/336/EEC (EN 61326), Class A, CE 73/23/EEC (EN61010-1)**

F4(D, P or S)(H or L) – (C, E, F or K)(A, C, E, F, or K)(A, C, E, F or K)(A, C, F, K or 0, 6) – (0, 1 or 2)(XXX)

**988/998 Series (Includes 981-984, 986-989, 996-999)**

**UR, c-UR 873** Recognized, File #E43684 Vol 1, Sec 35 (XAPX2)(XAPX8)

(98 or 99)(1-4 or 6-9)(A-Z) – (0-9)(0-9)(A-F or K)(A-F, K or T) – (A-C, J, K, M, N or T)(A-E, K, or R-U)(XX)

NOTE: Some combinations are not available options (ie. 991, 992, 993, 994)

**UL50** (Case only to NEMA 4X), IP65 (EN60529)

**CE 89/336/EEC (EN 61326), Class A, CE 73/23/EEC (EN61010-1)**

98(1, 2, 3 or 4)(X) – (1 or 2)(0, 3 or 5)(B, C, D, E, F or K)(A, B, C, D, E, F, K or T)

– (A, B, C, J, K, M, N or T)(A, B, C, D, E, K, R, S or T)(XX)

98(6, 7, 8 or 9)(X) – (1 or 2)(0, 1, 2, 3, 4 or 5)(B, C, D, E, F or K)(A, B, C, D, E, F, K or T)

– (A, B, C, J, K, M, N or T)(A, B, C, D, E, K, R, S or T)(XX)

99(6, 7, 8 or 9)(X) – (1 or 2)(1 or 2)(C, E, F or K)(D, E, F, or K)

– (A, B, C, J, K, M, N or T)(A, B, C, D, E, K, R, S or T)(XX)

**A007-1732 (Event output Board)**

**UR 873** Recognized, File E43684, Vol 2, Sec 28 (NRNT2), (XAPX2)

A007-1732-(0-9 or F)(0-9)(A, B, C or K)(0-8)

**MJR Timer and T321**

**UR, c-UR 917** Recognized File E184356 Vol 1, Sec 1. (WGZR2)(WGZR8)

T(MJR or 321) – (M or H)(A or D)(A or D)1 – (0 or 1)(any 2 letters or numbers)R



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**Series/Model/Listing/File Number**

X = any number or letter

**CZR Series Solid State Contactor**

**UR** 508 Recognized, File #E73741 Changed from E177629 7-3-00 (NRNT2)  
(CR or CZ)(24, 34, 42 or 50) – A(24, 48 or 60)V – (AC10, AC20 or DC10)  
(CR or CZ)18 – A(24 or 48)V – (AC10, AC20 or DC10) Added 5/11/01

**CSA** C22.2 NO. 14 , File #LR700195  
(CR or CZ)(24, 34, 42, or 50) with suffixes  
(CR or CZ)18 – (A24V or A48V) – (AC10, AC20 or DC10) Added 3/13/01

**VDE** License 130515 Reg. Nr 126921  
(CR or CZ)(24, 34, 42 or 50) – A(24, 48 or 60)V – (AC10, AC20 or DC10)

**VDE** License 136037 Reg. Nr 169156 Added 5/22/01  
(CR or CZ)18 – A(24 or 48)V – (AC10, AC20 or DC10)

**CE** (EN60950) – approved as a component.

**Solid State Relays**

**UR** Recognized, File E151484 (NMFT2)  
18-60(01-06, 11, 13, 14, 16-21, 23, 25, 38-41)

**CSA** C22.2 No. 14, File LR700195  
18-60(01-06, 11, 13, 14, 16-19, 21, 23, 25, 26, or 38-45)

**VDE** License 90995  
18-60(01-06, 11, 13, 14, 16-21, 23, 25, 38-45)

**Solid State Relays**

**UR** Recognized, File E151484 Added March 2002 (NMFT2)(NMFT8)  
SSR – (240 or 480) – (10, 25, 50 or 75)A – (AC1, DC1 or RND)

**UR** Recognized, File E73741 (NRNT2)(NRNT8)  
SSR – 100 – 15A – DC1 (this one is not CSA approved.)

**CSA** C22.2 No. 14, File # 215202  
SSR – (240 or 480) with suffixes (10A, 25A, 50A or 75A)

**TÜV** License B 02 03 26647 002  
SSR-XXX-XXX-AC1, SSR-XXX-XXX-DC1, SSR-XXX-XXX-RND

**DIN-a-mite A**

**UL, c-UL** 508 Listed, File E73741 Vol 2 Sec 5 Industrial Control Equipment **948Y** Updated 4/18/02 (NRNT, NRNT7)

**CE** EN 61326 Industrial Immunity, Class A emissions with filter. EN 50178 Safety  
DA10 – (02, 24 or 60)(CX, FX, K1, K2 or K3) – 0XXX

**DIN-a-mite A**

**UL, c-UL** 508 Listed, File E73741 Vol 2, Sec 5 Industrial Control Equipment **948Y** Prior to 4/18/02 (NRNT)(NRNT7)  
DA1(C or V) – (16 or 20)(02, 24 or 60) – (C0, F0, K1, K2 or K3)XX

**VDE** 0160, File #91623

**CE** 89/336/EEC (EN50082-2, EN50081-2), Class A with filter, 73/23/EEC (EN50178/VDE 0160)  
DA1(C or V) – 16(24 or 60) – (C0, F0, K1, K2 or K3)XX

**DIN-a-mite B**

**UL, c-UL** 508 Listed, File E73741 Vol 2, Sec 6 Industrial Control Equipment **948Y** Updated 5/24/02 (NRNT)(NRNT7)

**CE** EN 61326 Industrial Immunity, Class A emissions with filter. EN 50178 Safety  
DB(1, 2, 3 4, 8 or 9)0 – (02, 24 or 60)(CX, FX, K1, K2 or K3) – (0, C or S)XXX

**DIN-a-mite B**

**UL, c-UL** 508 Listed, File E73741 Vol 2, Sec 6 Industrial Control Equipment **948Y** Prior to 5/24/02 (NRNT)(NRNT7)  
DB(1, 2 or 3)(C or V) – (15, 20 or 30)(02, 24, or 60) – (CX, FX or K1-K9)(S0 or 00)

**VDE** 0160, File #91623

**CE** 89/336/EEC (EN50082-2, EN50081-2), Class A with filter, 73/23/EEC (EN50178/VDE 0160)  
DB(1, 2 or 3)(C or V) – (15, 20 or 30)(24 or 60) – (CX, FX, or K1-K9)(0 or S)X

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**Series/Model/Listing/File Number**

X = any number or letter

**DIN-a-mite C****Updated 4/18/02****UL, c-UL 508** Listed, File E73741 Vol 2, Sec 4 Industrial Control Equipment **948Y**

(NRNT)(NRNT7)

**CE EN 61326** Industrial Immunity, Class A emissions with filter. EN 50178 SafetyFan DC(1, 2, 3, 4, 8 or 9)(1, 2 or 3) – (02, 12, 20, 24, 27, 40, 48 or 60)(CX, FX, LX, PX, SX, K1, K2 or K3)  
– (0, C, D, H or S)XXXNo Fan DC(1, 2, 3, 4, 8 or 9)(0 or T) – (02, 12, 20, 24, 27, 40, 48 or 60)(CX, FX, LX, PX, SX, K1, K2 or K3)  
– (0, C, D, H or S)XXX**CE 89/336/EEC (EN 61326)** Class A with Filter, 73/23/EEC (EN 50178)Fan DC(1, 2, 3, 4, 8 or 9)(1, 2 or 3) – (02, 12, 20, 24, 27, 40, 48 or 60)(CX, FX, SX, K1, K2 or K3)  
– (0, C, D, H or S)XXXNo Fan DC(1, 2, 3, 4, 8 or 9)(0 or T) – (02, 12, 20, 24, 27, 40, 48 or 60)(CX, FX, SX, K1, K2 or K3)  
– (0, C, D, H or S)XXX**DIN-a-mite C**

X added at the end of the model number 2/23/01

**Prior to 4/18/02****UL, c-UL 508** Listed, File E73741 Vol 2, Sec 4 Industrial Control Equipment **948Y**

(NRNT)(NRNT7)

With fan DC(1, 2 or 3)(C, V, S or P) – (50, 56, or 65)(12, 20, 24, 27, 40, 48 or 60) –  
(K1, K2, K3, CX, FX or VX)(0 or S)(0, 1, 2, 3, 4, T or [X])Without fan DC(1, 2 or 3)(C, V, S, P or L) – (30, 35, 40, 45, 50 or 60)(02, 12, 20, 24, 27, 40, 48 or 60) -  
(K1, K2, K3, CX, FX, or VX)(0 or S)(0, 1, 2, T or [X])**VDE 0160**, License #91623**CE 89/336/EEC (EN50082-2, EN50081-2)**, Class A with filter, 73/23/EEC (EN50178/VDE 0160)

DC(1, 2 or 3)(C, V or S) – (30, 40, 50, 56 or 65)(24 or 60) – (CX, FX, or K1 – K9)(0 or S)X

DC(1, 2 or 3)(C, V or S) – (35, 45 or 60)(24 or 60) – (CX, FX, or K1 – K9)(0 or S)T

DC(1, 2 or 3)S – (35, 45 or 60)(12, 20, 24, 27, 40 or 48) – (FX or V1, V2, V3)(0 or S)T

DC(1, 2 or 3)S – (30, 40, 50, 56 or 65)(12, 20, 24, 27, 40 or 48) – (FX or V1 – V3)(0 or S)X

**DIN-a-mite C Through Wall****Updated 5/10/02****UL, c-UL 508**, Listed, File E184390 Vol 1, Sec 1 Process Control Equipment for Hazardous Locations **2S81****UL, c-UL 1604** Class I, Div 2, Groups A, B, C or D Hazardous Locations. (QUZW)(QUZW7)

DC(1, 2, 3, 4, 8 or 9)T – (02, 12, 20, 24, 27, 40, 48 or 60)(CX, FX, LX, PX, SX, K1, K2 or K3) – (0, C or S)XXX

**CE EN 61326** Industrial Immunity, Class A emissions with filter. EN 50178 Safety

DC(1, 2, 3, 4, 8 or 9)T – (02, 12, 20, 24, 27, 40, 48 or 60)(CX, FX, SX, K1, K2 or K3) – (0, C or S)XXX

UL50, Nema 4X

**DIN-a-mite C Through Wall****Prior to 5/10/02****UL, c-UL 508**, Listed, File E184390 Vol 1, Sec 1 Process Control Equipment for Hazardous Locations **2S81****UL, c-UL 1604** Class I, Div 2, Groups A, B, C or D Hazardous Locations. (QUZW)(QUZW7)

DC(1, 2 or 3)(C, V, S or P) – (35, 45 or 60)(12, 20, 24, 27, 40, 48 or 60)

– (K1, K2, K3, C0, C2, C3, V1, V2, V3 or F0)(S or 0)T

UL50 (NEMA 4X)

**VDE 0160**, License #91623**CE 89/336/EEC (EN 50082-2, EN 55011)**, Class A with filter, 73/23/EEC (EN 50178)

DC(1, 2 or 3)(C, V or S) – (35, 45 or 60)(24 or 60) – (CX, FX, or K1 – K9)(0 or S)T

DC(1, 2 or 3)S – (35, 45 or 60)(12, 20, 24, 27, 40 or 48) – (FX or V1, V2, V3)(0 or S)T

**DIN-a-mite D****Updated 5/22/02****UL, c-UL 508** Listed, File E73741 Vol 2, Sec 7 Industrial Control Equipment **948Y**

(NRNT)(NRNT7)

**CE EN 61326** Industrial Immunity, Class A emissions with filter. EN 50178 Safety

DD10 – (02, 24, 48 or 60)(CX, FX, K1, K2 or K3) – (0, C or S)XXX

E-RRL4CSSAAA48X and E-RRL4CSSAA248E – Glasstech private label E190740

**DIN-a-mite D****Prior to 5/22/02****UL, c-UL 508** Listed, File E73741 Vol 2, Sec 7 Industrial Control Equipment **948Y**

(NRNT)(NRNT7)

DD1(C or V) – 1M(02, 24 or 60) – (CX, FX, K1, K2 or K3)XX

DD-LV or DD-HV – bolt on substrate module

E-RRL4CSSAAA48X and E-RRL4CSSAA248E – Glasstech private label E190740

**VDE 0160**, File #91623**CE 89/336/EEC (EN50082-2, EN50081-2)**, Class A with filter, 73/23/EEC (EN50178/VDE 0160)

DD1(C or V) – 1M(24 or 60) – (C0, F0, K1, K2 or K3)(0, 1 or S)X

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**Series/Model/Listing/File Number**

X = any number or letter

**DPAC and DPAC –S      UR Without enclosure      UL With enclosure**

**UL 873** Recognized, File #E43684 Vol 4, Sec 2 (XAPX2)

**UL 873** Listed, File #E43684 Vol 5, Sec 1 Temperature-Indicating and Regulating Equipment **56Y8** (XAPX)

D01 – (120, 208, 240, 277, 480 or 600) – (10, 20, 30, 50, 75, 100, 150, 200, 300, 400 or 600) – XXX

D32 – (208, 240, 480 or 600) – (10, 20, 30, 50, 75, 100, 150, 200, 300, 400 or 600) – XXX

D43 – (208 or 480) – (10, 20, 30, 50, 75, 100, 150, 200, 300, 400 or 600) – XXX

D01S – (120, 208, 240, 277, 480 or 600) – (10, 20, 30, or 50) – XXX

D32S – (208, 240, 480 or 600) – (10, 20, 30, or 50) – XXX

D43S – (240 or 480) – (10, 20, 30 or 50) – XXX

**QPAC**

**UL, c-UL 508** Listed, File #E73741 Vol 3, Sec 1 Industrial Control Equipment **948Y** (NRNT)(NRNT7)

Single Phase = Q01 – (12, 20, 24, 27, 38, 40, 41, 48 or 57)(0, 1 or 2) – (030, 050, 075, 100, 150, 200 or 300) -  
(CA, CD, BF, BV, AF or AL)X

Three Phase = Q(32 or 33) – (12, 20, 24, 27, 38, 40, 41, 48 or 57)(0, 1 or 2) – (030, 050, 075, 100, 150, 200 or 300) –  
(CA, CB, BF, BV, AF or AL)X

**Power Series**

**UL, c-UL 508** Listed, File #E73741 Vol 3, Sec 2 Industrial Control Equipment **948Y** (NRNT)(NRNT7)

PC(1-9)(0-9) – (N or F)(20, 25 or 30)(A, B or C) – (0-9)(0-9)(00 or AA-ZZ)

**VDE EN 50178** License #115054

**CE 89/336/EEC (EN61326)**, Class A with filter, CE 73/23/EEC (EN50178)

PC(1, 2, 3, 4, 8 or 9)(0 or 1) – (N or F)(20, 25 or 30)(A, B or C) – (0 or 1)(0 or 1)(00 or AA-ZZ)

**HG Series Mercury Displacement Relays**

**UL** Sub-License, File E73741 as of 7-3-00 File E177629 prior (NRNT)

HG30 – (1, 4, 6, or 9)KD(1, 2, or 3) – 0000; HG30 – 9KD1 – 00AE

HG30 – (1, 4, 6, or 9)AA(2 or 3) – 0000

HG35 – (1, 4, 6, or 9)LD(1, 2 or 3) – 0000; HG35 – 0LD2 – 00AB

HG50 – (1, 4, 6, or 9)MD(1, 2 or 3) – 0000

HG80 – (1, 4, 6, or 9)AB(1, 2, or 3) – 0000

HG1M – (1, 4, 6, or 9)AC(1, 2, or 3) - 0000

**CSA**, File #LR201393 CSA approved products identical to UL, except it includes

HG60 – (1, 4, 6, or 9)PD(1, 2, or 3) – 0000 as of 3/12/01

**HG Series Mercury Displacement Relays**

Listed as of 3/3/01

**UL** Sub-License, File E178508 (NLDX)

HG60 – (1, 4, 6, or 9)PD(1, 2, or 3) – 0000

**CLS200, CAS200, CPC200 and D8 Series (Anafaze)**

**UI, c-UL 916** Listed File #E177240 Vol 1, Sec 1 Process Control Equipment **19GK** (QUXY)(QUXY7)

CLS2(04, 08 or 16)

CAS200

CPC4(04, 08 or 16)

D8 followed by any number or letter

**CE 89/336/EEC (EN 61326 Industrial Immunity)**, Class A emissions.

All Models

**MLS300 (Anafaze)**

**UL, c-UL 916** Listed File #E177240 Vol 1, Sec 2 Process Control Equipment **19GK** (QUXY)(QUXY7)

MLS300PM (Processor Module) and MLS300-AIM (Analog Input Module)

The AIM series has been evaluated for both the AIM-16 and AIM-32.

TB50 (interface terminal block).

**CE 89/336/EEC (EN 61326 Industrial Immunity)**, Class A emissions

All models.

**SDAC Series (Anafaze)**

**UL, c-UL 916** Listed File #E177240 Vol 1, Sec 3 Process Control Equipment **19GK** (QUXY)(QUXY7)

SDAC (Serial Digital to Analog Converter)

**CE 89/336/EEC (EN 61326 Industrial Immunity)**, Class A emissions – All models

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**Series/Model/Listing/File Number**

X = any number or letter

**Model TLM-8 (Anafaze)**

**UL, c-UL** 916 Listed File #E177240 Vol 1, Sec 1 Process Control Equipment **19GK** (QUXY)(QUXY7)  
TLM-8 series, model 88-21500 may be followed by numeric numbers.

**FM** Class 3545, File #J.I. 0D0A8.AF

***Temperature Supervisory Switches***

TLM-8 Models 21500-001 (or -011, -101, -111, -201, -211, -301, -311, -401, -411, -501, -502, -511, -601 or 611)

***Temperature Limit Switches, Nonindicating***

TLM-8 Models 21500-000 (or -002, -010, -012, -100, -102, -110, -112, -200, -202, -204, -205, -210, -212, -300, -302, -310, -312, -400, -402, -410, -412, -500, -502, -510, -512, -600, -602, -610 or -612)

**CE** 89/336/EEC (EN 61326), Class A emissions, 73/23/EEC (EN 60204-1)

**PPC-2000**

**UL, c-UL** 3121 Listed File #E212113 Open Type Process Control Equipment **53LJ** (QUYX)(QUYX7)  
PPC-2000

TB50 (interface terminal block)

EITB (Encoder input terminal block)

AITB (Analog input terminal block)

**CE** 89/336/EEC EMC EN 61326 Industrial Immunity Class A emissions, EN 61010-1 Safety

**HAL (Anafaze)**

**UR, c-UR** 873 Recognized File E174687 (XAPX2)(XAPX8)  
HAL

**E-Safe**

**UL, c-UL** 508 Listed File E213822 Vol 1, Sec 1 Industrial Control Switch **77AN** (NRNT)(NRNT7)  
ES(20 or 40) – 3(024, 120 or 220) – (AC)(00 or XX)

**Model 5900 Signal Conditioner (Gordon)**

**CE** 89/336/EEC (EN 61326-1)

**XL Series Connection Head (Gordon)**

NEMA 4, UL File #E188166