

DESCRIPTION

PRODUCT COVERED:

Type MY may be followed by Q, followed by 4, may be followed by H3YN or H3YW (Amendment), may be followed by Z, may be followed by F or S, may be followed by -0, -02 or -T, may be followed by E, may be followed by A, B or G may be followed by I, I2 or I4, may be followed by N, -D, N-D, N-D2, CR or N-CR, may be followed by -3 or -4, may be followed by optional letter(s) and/or number(s), may be followed by -40 or -04, -M, -L, -40L or -04L, may be followed by -AC6 through -AC240 or -DC5 through -DC125, may be followed by optional letter(s) and/or number(s).

Type MY4 or MYQ4, may be followed by a blank, E or Z, followed by a blank, I or I2 or I4, may be followed by a blank, N, -D, -N-D or N-D2, CR or N-CR, followed by a blank, -40 or -04, followed by a blank or 3, followed by a blank, 0, 02, T, S, F, A or B, may be followed by optional letter(s) and/or number(s), followed by a blank, AC6 through AC240 or DC5 through DC125, may be followed by optional letter(s) and/or number(s).

* Type MY with or without 4, followed by optional letters and/or numbers, followed by 00600 through 006999.

* Type MY4, may be followed by Z, may be followed by I or I5, may be followed by N, may be followed by 1, may be followed by D, D2 or CR, may be followed by optional suffixes, may be followed by S.

GENERAL:

These devices are 4-pole double throw relays with normally open and/or normally closed contact for use in Industrial Control Equipment, UL 508, Clothes Dryers, Washing Machines, UL 560 and similar devices, Commercial Refrigerators and Freezers, UL 471, where the suitability of the combination has been determined by Underwriters Laboratories Inc.

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Use - For use only in complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

This component has been judged on the basis of the required spacings in the Standard for Industrial Control Equipment, UL 508, 15th Edition, Table 48.1, Column B; Electric Home Laundry Equipment, UL 560, Par. 18.2; and Commercial Refrigerators and Freezers, UL 471, which covers the end-use product for which the component was designed.

RATINGS:

All Types (except MYQ4)	1/6 Hp; 125, 250 V ac (1,000 operations) 5.0 A, 28 V dc or 240 V ac general use maximum (Same polarity) 1/10 hp, 120 V ac, 5 A, 250 V ac, 30 V dc (resistive load) Maximum 7 A, 240 V ac, general use. Maximum 7 A, 24 V dc, resistive. *B300 Pilot Duty (same polarity only)
MYQ4	Maximum 5 A, 240 V ac, general use (same polarity) Maximum 5 A, 28 V dc, resistive 1/10 Hp, 120 V ac (single contact only)
Types with AC Barrier	Same ratings as above, with additional rating of 120 V dc, -0.2 A, resistive load per pole.
See nomenclature, Item 5 for US types Item 3 for UA types	
Type MY4, Additional Construction:	
Coil: 6-240 V ac, 6-125 V dc	
Contact: Single Contact	
MY4 4 poles	5 A, 250 V ac/30 V dc general purpose
4 c	*B300 Pilot Duty (same polarity only)
Single Contacts	
MY4Z 4 poles	5 A, 250 V ac/30 V dc general purpose
4 c	
Twin Contact	

Conditions of Acceptability -

1. The ratings of the control equipment should not exceed the ratings above. (Same polarity between all poles when used in Industrial Control Equipment and opposite polarity between poles when used in Electric Home Laundry Equipment where potential involved is not more than 120 V.)

2. The device should be mounted in enclosures having adequate strength and thickness in the intended manner and with acceptable spacings being provided throughout.

3. When the device is mounted in enclosures, the test record should be reviewed to determine if tests need be repeated.

4. Plug-in type devices should be supplied with the mounting base with suitable marking to identify the terminals as marked on the side of the cover.

5. The solder tab terminals (when wired) should be examined for spacings and security.

6. The spacings between the frame and the coil circuit and/or the contact circuit do not meet the spacings requirements and as such, the frame should be considered a live part.

7. Spacings are suitable for use for opposite polarity for elevator and escalator controls for 150 V or less. per Table 14 of ASME-A 17.5 dated 1996.

* 8. The relay MYQ4 complies with the "Sealed Device" requirements of UL 2279, and Para. 21 of IEC 60079-15 for Class I, Div. 2, Groups A, B, C, D Hazardous Locations. This is based on use of the sealant described in Fig. 2, Item 2. In end use, consideration should be given to relay enclosure temperature and to mechanical securement of relay to terminal block. Ratings are limited to 3 A, 240 V.

DIMENSIONS:

All dimensions given in the detailed description are nominal unless otherwise indicated.

Note - Please see Table 1 on Page 3A for specific parts provided with relays.

NOMENCLATURE:

Type with Suffix -US.

MY	Q	4	H3YN	Z	F	-0	E	A	12	N	-3	QSK1	-40	-DC24	-
or/and QSK2															
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	IXV	XV	
XVI															

I - Basic type designation.

II - Basic construction.

Blank - Standard relay.

Q - Plastic sealed relay.

III - Number of poles.

4 - 4-poles.

IV - Construction

Blank - Provided with cover.

H3YN - Provided without cover

(Marking on each package only)

*H3YW - Same as H3YN except welded
terminals.

V - Contact construction.

Blank - Single contact.

Z - Twin contact.

VI - Cover configuration.

Blank - Standard type, without mounting bracket.

F - Upper mounting bracket style.

S - Lower mounting bracket style.

VII - Terminal construction.

Blank - Solder type terminal.

-0 - Printed circuit terminal.

-02 - Printed circuit terminal.

-T - Tab terminal.

VIII - Contact material.

Blank - Silver, with or without gold plated.

E - Silver cadmium oxide, with or without gold
plated.

(Table Cont'd)

IX - Optional construction

Blank - Standard relay, without mounting screw

A - Upper mounting screw type

B - Side mounting screw type

* G - Bottom side screw type (ground terminal type)

X - Test button

Blank - Standard type, without test button

I - Upper mounting test button

I2 - Front mounting test button

I4 - Front mounting test button (AC specification;
Orange) (DC specification; Blue)

XI - Construction

Blank - Standard type, without coil lamp

N - Provided with neon lamp type

-D - Provided with diode type

N-D - Provided with neon lamp diode type

N-D2 - Provided with neon lamp diode type

CR - Provided with spark killer

N-CR - Provided with neon lamp spark killer

XII - Barrier construction

Blank - With or without arc barrier

-3 or -4 - With arc barrier

XIII - Optional Suffix(es) - Does not affect construction. May include optional letter(s) and/or number(s) for safety standard(s).

IXV - Additional suffix

Blank - Normally open contact and normally closed
contact

-40 - Normally open contact only

-04 - Normally closed contact only

-M - Marking before breaking contact

-L - Revised construction

-40L - Revised construction

-04L - Revised construction

XV - Coil voltage

Blank - Marked on cover or coil surface

-AC6 through -AC240 - Any voltage within range

-DC5 through -DC125 - Any voltage within range

XVI - Optional suffixes

May be followed by additional letter(s) and/or number(s)
for sales purposes.

NOMENCLATURE:

Type with UA in type number.

*	<u>MY4</u>	<u>E</u>	<u>I</u>	<u>N-D</u>	<u>-40</u>	<u>-3</u>	<u>-02</u>	<u>QSK1</u>	<u>-AC6</u>	<u>-or/and QSK2</u>
	I	II	III	IV	V	VI	VII	VIII	IX	X

I - Basic type designation.

MY4 - Basic type.
MYQ4 - Sealed type.

II - Contact material and construction.

Blank - Silver with or without gold plated, single contact.
E - Silver cadmium oxide with or without gold plated, single contact.
Z - Silver with or without gold plate, bifurcated contact.

III - Test button.

Blank - Without test button.
I - Upper mounting test button.
I2 - Front mounting test button.
I4 - Front mounting test button (AC specification; Orange) (DC specification; Blue)

IV - Construction.

Blank - Not provided with coil lamp.
N - Provided with neon lamp.
-D - Provided with diode.
N-D - Provided with neon lamp diode.
N-D2 - Provided with neon lamp diode.
CR - Provided with spark killer.
N-CR - Provided with neon lamp spark killer.

V - Additional suffix.

Blank - N.O. and N.C. contacts.
-40 - N.O. contact only.
-04 - N.C. contact only.

VI - Barrier construction.

Blank - With or without arc barrier.
-3 - With arc barrier.

VII - Terminal and cover figure.

Blank - Solder type terminal.
-0 - Printed circuit terminal.
-02 - Printed circuit terminal.
-T1 - Tab terminal.
S - Mounting tab at lower position.
F - Mounting tab at upper position.
A - Upper mounting style.
B - Side mounting style.

* VIII - Optional Suffix(es) - Does not affect construction. May include optional letter(s) and/or number(s) for safety standard(s).

IX - Coil voltage.

-AC6 through 240 (any voltage within range)
-DC5 through 125
Blank - Marked on cover or coil surface.

X - Optional suffixes.

May be followed by additional letter(s) and/or number(s)
for sales purposes.

TYPE MY4, ADDITIONAL CONSTRUCTION:

<u>MY</u>	<u>4</u>	<u>Z</u>	<u>I</u>	<u>N</u>	<u>1</u>	-	<u>D</u>	-	<u>QSK1</u>	-	<u>QSK2</u>	<u>(S)</u>
I	II	III	IV	V	VI		VII		VIII		IX	X

- I. Basic Type Designation
- II. Contact Form
4: 4PDT
- III. Contact Type
Blank: Single
Z: Bifurcated
- IV. Test Button
Blank: None
I: Provided with Test Button
* I5: Provided with Test Button without mechanical indicator
- V. LED Indicator
Blank: None
N: Provide with LED Indicator
- VI. Coil Polarity
Blank: Standard
1: Reverse
- VII. Classification
Blank: General-purpose
D: Provided with Diode (DC Coil Only)
D2: Provided with Diode (LED Indicator and DC Coil Only)
CR: Provided with Spark Killer (AC Coil Only)
- VIII. Optional Suffixes
May include optional letters and/or numbers for safety standards.
- IX. Optional Suffixes
May include optional letters and/or numbers for sales purpose.
- X. Mechanical Indicator and Label
Blank: None
(S): Provided with Mechanical Indicator and Label

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REPLACES PAGE 2C

*SPACINGS:

		Spacing	UL 560		UL 508
			0-125 V	126-250 V	51-300 V
Between uninsulated current-carrying parts of opposite polarity and between uninsulated current-carrying parts and grounded metal parts.	Through Air	1.6 mm	2.4 mm	1.6 mm	
	Over Surface	1.6 mm	2.4 mm	3.2 mm	

The frame is to be considered an intermediate part between the coil circuit and the contact circuit in which the sum of the spacings between the frame and coil circuit and between the frame and contact circuit meets the spacing requirements.

MARKING:

*See Sec. Gen. Marked on top or side of dust cover. Factory identification on side of dust cover or on iron core frame. Provided with coil voltage rating when not part of the nomenclature.

Note: All ratings do not have to be marked on a device.
Also a lower rating may be used, for example a 5 A rated device could be marked 3 A.

TABLE 1(CONSTRUCTION TABLE)

<u>Type</u>	<u>Coil Ratings</u>	<u>LED</u>	<u>Neon Lamp</u>	<u>Holder Block</u>	<u>Printed Wiring Board</u>	<u>Resistance</u>	<u>Remarks</u>
MY4N	AC 6 to 240 V	0		0		None	
MY4N	DC 6 to 120 V	0		0		270 ohm	
MY4N-D	DC 6 to 99 V	0			0	1.2K ohm to 16K ohm	
MY4N-D	DC 100 to 125 V	0		0	330K ohm to	430K ohm	
MY4N-D2	DC 6 to 125 V	0		0		270 ohm	
MY4N-CR	AC 6 to 99 V	0			0	1.2K ohm to 15K ohm	
MY4N-CR	AC 100 to 240 V	0		0	150K ohm to	430K ohm	

Note: Each provided part shows "0" mark or resistance value.

CONSTRUCTION DETAILS:

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