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# NMTR.E104818

## Power Circuit and Motor-mounted Apparatus

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## Power Circuit and Motor-mounted Apparatus

See General Information for Power Circuit and Motor-mounted Apparatus

**OMRON CORP**

E104818

SAFETY STANDARDS GROUP

IAB TECHNOLOGY DEVELOPMENT CENTER H Q

SHIOKOJI HORIKAWA, SHIMOGYO-KU

KYOTO 600-8530, JAPAN

**Area sensor**, Type F5 with additional letter and/or numbers.

**Collimate beam sensor**, Type Z4LB with additional letters and/or numbers.

**Control units**, Models F3SP-U1P, F3SP-U2P.

**DC backup block**, Model S8T-DCBU, may be followed by 01, may be followed by an additional number from 300 through 999.

**I.D. read/write heads**, Type V600-HA with additional letters and/or numbers; Type V600-HS with additional letters and/or numbers.

**ID controller**, Type V600, followed by IDSC, followed by a number, followed by 2 or 4, may be followed by additional letter(s) and/or number(s).

**Open type solid state identification system**, Controller unit, Type V6, followed by 0, 2 or 5, followed by a number or a letter, followed by C, followed by letters and/or numbers.

**Monitor unit**, Type V600-P01.

**Line sensors**, Type E2C with or without additional letters and/or numbers for use with proximity sensors; Type F3M with additional letters and/or numbers.

**Pattern matching sensor**, Type F10 with additional letters and/or numbers.

**Power supplies**, Models S82J, followed by 010, 025, 050 or 100, followed by 05, 12, 15 or 24, may be followed by A or D, may be followed by D, may be followed by an additional numbers.

Models S8TS-02505, -03012, -06024, may be followed by F, may be followed by -E1, may be followed by an additional number from 300 through 999.

Models S82J, followed by 100 or 150, followed by 05, 12, 15 or 24, may be followed by A, B, D or E, may be followed by D, may be followed by an additional numbers.

Models S8VS, followed by -060, -090 or -120, followed by 24, may be followed by A or B, may be followed by P, may be followed by an additional number from 300 through 999.

Models S8VS, followed by -180, followed by 24, may be followed by A or B, may be followed P, may be followed by an additional number from 300 through 999. .

Model S8VS, followed by -240, followed by 24, may be followed by A or B, may be followed by P, may be followed by an additional number from 30 through 999.

Type S82K, may be followed by P, followed by 003, 007, 015, 030, 050, 090 or 100, followed by 05, 12, 15, 24, 27 or 28, may be followed by T, may be followed by an additional number from 300 thru 999.

Models S82K-24024, S82K-24024T, S82K-P24024, may be followed by an additional number from 300 thru 999.

Model S82W-112-SK optional, followed by 300 through 999.

Model ZEN, followed by -PA, followed by 030, followed by 24, may be followed by an additional number from 300 through 999.

Model S8VS, followed by -015 or -030, followed by 05, 12 or 24, may be followed by an additional number from 300 through 999.

**Pressure sensor**, Type E8 with additional letters and/or numbers.

**Rotary encoder**, Type E6 with additional letters and/or numbers.

**2-Dimensional code reader**, Type V530-R150 with additional letters and/or numbers.

**ID sensor unit**, Type CS1W or CJ1W followed by V600C1, followed by 1 or 2, with additional letters and/or numbers.

**Visual inspection systems**, Type F150 or F400 with additional letters and/or numbers; Type F180 with additional letters and/or numbers.

Model S8PE followed by F or J, followed by 120, 240, 480 or 960, followed by 12, 24 or 48, followed by C or CD followed by aaa. (aaa represents a numeric code for options or customer specific versions, not safety relevant).

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## **NMTR.GuideInfo**

### **Power Circuit and Motor-mounted Apparatus**

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## **[Industrial Control Equipment] Power Circuit and Motor-mounted Apparatus**

### **See General Information for Industrial Control Equipment**

#### **GENERAL**

This category covers autotransformers, including motor starting and variable voltage types; battery chargers for industrial use; magnetically-operated brakes; busbars; magnetically-operated clutches; enclosed slip rings; lamp dimmers, including incandescent, fluorescent, mercury vapor, surgical light and theater use; phase converters; power factor correction equipment; power supplies for industrial use; reactors, including line chokes; and resistors, including motor starting, rheostats, potentiometers, and high impedance grounding types.

A brake or clutch may consist of several parts with the Listing Mark appearing on the main electrical part (i.e., field). Where other part(s) are essential to complete a Listed assembly, the basic unit is marked to indicate the parts needed.

#### **ADDITIONAL INFORMATION**

For additional information, see Industrial Control Equipment (**NIMX**) and Electrical Equipment for Use in Ordinary Locations (**AALZ**).

#### **REQUIREMENTS**

The basic standard used to investigate products in this category is UL 508, "Industrial Control Equipment."

#### **UL MARK**

The Listing Mark of Underwriters Laboratories Inc. on the product is the only method provided by UL to identify products manufactured under its Listing and Follow-Up Service. The Listing Mark for these products includes the UL symbol (as illustrated in the Introduction of this Directory) together with the word "LISTED," a control number, and the product name "Industrial Control Equipment" (or "Ind. Cont. Eq.").

**Last Updated** on 2004-06-18

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## NIMX.GuideInfo Industrial Control Equipment

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### Industrial Control Equipment

#### Guide Information for Electrical Equipment for Use in Ordinary Locations

The listing covers the following products:

Industrial Control Panels

Motor Control Centers

Motor Controllers

Miscellaneous Apparatus

Programmable Controllers

Industrial Control Switches

Enclosed industrial control equipment identified with an enclosure type designation is intended for use as indicated in the guide information at the front of this directory (AALZ).

Industrial Control Equipment, is for use with copper conductors unless marked to indicate which terminals are suitable for use with aluminum conductors. Such marking is independent of any marking on terminal connectors and is on a wiring diagram or other readily visible location.

Industrial Control Equipment, for which accessory kits are available for the field or distributor modification of the basic product or which may be assembled in many forms from separate components are marked to indicate the suitable accessories or separate components which may be used.

#### Control Panels

If the sealed rating of the operating coil circuit of a magnetically operated industrial control device exceeds 125 volt-amperes, the coil circuit rating is marked on the device.

Overload relays or industrial control equipment incorporating overload relays are identified as to their maximum tripping time at 600 per cent of the overload relay current element trip rating. The designations "Class 10, Class 20, and Class 30" are used to identify the maximum tripping times, with the Class number indicating the maximum tripping time in seconds. Overload relays with maximum tripping times of 10 or 30 seconds are marked Class 10 or Class 30 respectively. Overload relays with a maximum tripping time of 20 seconds may be marked Class 20. Overload relays with tripping times in excess of 30 seconds are marked with their maximum tripping times. All unmarked overload relays have a maximum tripping time of 20 seconds.

There are open, across-the-line starters intended for bolt on mounting to panelboards and dead front switchboards and are so restricted by the Listing Mark. They are provided with a cover or door and the remaining portions of the enclosure are provided by the panel or switchboard enclosure.

Some industrial control equipment is suitable for use as service equipment and may be so marked. Such marking is part of the Listing Mark or is an integral part of other required markings.

Some of the equipment listed in this category has also been investigated for use aboard marine vessels over 65 ft. in length as covered by the Electrical Engineering Regulations of the United States Coast Guard, Subchapter J, CG-259, (46 CFR Parts 110-113).

The Electrical Engineering Regulations of the United States Coast Guard classify marine type equipment as "Non-Watertight," "Drip-proof," or "Watertight."

Some industrial control equipment incorporates neutrals factory bonded to the frame or enclosure. Such units are marked "Suitable Only For Use As Service Equipment."

Open type across-the-line starters designed only for use in panelboards or dead front switchboards employ Listing Marks with the product identity "INDUSTRIAL CONTROL EQUIPMENT FOR USE IN PANELBOARDS AND DEAD FRONT SWITCHBOARDS" or "IND. CONT. EQ. FOR USE IN PANELBOARDS AND DEAD FRONT SWITCHBOARDS."

For other than industrial control panels, and unless indicated otherwise in the general information for the following subcategories, enclosed type product Listing Marks contain the product identity "INDUSTRIAL CONTROL EQUIPMENT" or the abbreviation "IND. CONT. EQ." on the enclosure, or the product identity "INDUSTRIAL CONTROL EQUIPMENT ENCLOSED" on the mechanism mounted within the enclosure. In either case, the Listing Mark indicates that the overall product with its enclosure is Listed.

Enclosures for use with open type products employ Listing Marks with the product identification "Enclosure For Industrial Control Equipment" or "Enclosure For Ind. Cont. Eq." and are marked to specify the Listed open type products to be installed within. Look for a Listing Mark on both the enclosure and the open mechanism.

For industrial control panels, one of the following product identities appears on the Listing Mark: "Open Industrial Control Panel" , "Industrial Control Panel Enclosure" , "Enclosed Industrial Control Panel" .

The "Enclosed Industrial Control Panel" Listing Mark covers both the enclosure and the panel provided with it. Open panels employ the "Open Industrial Control Panel" Listing Mark. The "Industrial Control Panel Enclosure" Listing Mark covers only the enclosure; the compatibility of the enclosure and the installed equipment and associated wiring has not been investigated unless an "Enclosed Industrial Control Panel" Listing Mark is also present.

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