
NLDX.E164862

Magnetic

Magnetic

TELEMECANIQUE

E164862

33 BIS AVE DU MARECHAL-JOFFRE
92002
NANTERRE CEDEX, FRANCE

Across-the-line starters: Open or enclosed, Cat. Nos. LC1-S followed by A, B, C, D, F, G, H or J, followed by 22, 23, 24, 42, 43 or 44 may or may not be followed by suffix letter, may or may not be followed by 13, 22, 31 or 40. Cat. No. LC1-D followed by 09, 12, 16 or HN, 25 or LS, 40, 50 or RS, 63 or 80 followed by 3, 4, 8 or 9 followed by a suffix letter with or without A60, A65, A602, H7 or S002; Type LC1-F followed by F, G, H, J, K, L or X, followed by 22, 23, 24, 42, 43 or 44, may or may not be followed by 04, 13, 31 or 40; Type LE2-F followed by F, G, H or J, followed by 43, may be followed by 0, followed by numbers. Type LC2-F followed by F, G, H, J, K or L, followed by 43, followed by numbers. Connector kit, Cat. No. LA9F103. Type No. LC2-D followed by 09, 12, 16 or HN, 25 or LS, 40, 50 or RS, 63 or 80 followed by 3, 4 or 9 with or without a suffix letter may or may not be followed by A60, A65, A602, S008, S009, H7; LC2-SA9, -SB9, -SC9, -SD9, LP1-D or LP2-D followed by 12, 16 or HN, 25 or LS, 50 or RS or 80 followed by 3, 4, 8 or 9, may or may not be followed by a suffix letter, may or may not be followed by A60, A65 or H7. Cat. Nos. LA1-LC followed by three digit number, may be factory or field installed.

Across-the-line starters, (600 v max), Combination Motor Controllers . Integral 32 line consisting of Cat. Nos. LB1-LC, LB6-LC followed by 03, followed by a letter, followed by a two digit number may be factory or field installed. Nos. LD1-LC, LD4-LC or LD5-LC followed by 03, may or may not be followed by suffix letters, followed by H51. Auxiliary contact block, Cat. No. LA1-LC1 followed by three digit numbers, may be followed by B, E, F, M, N, Q or U.

Modular system. For use with "Quickfit" system, Upstream terminal block, Cat. No. LAD-3B; Downstream terminal block, Cat. No. LAD-33; Power splitter box, Cat. no. LAD-32 followed by 2 or 4 (number of allowed starters); Control splitter box, Cat. No. APP-2R followed by 2 or 4, followed by C, H3 or H4; Power and control splitter box, Cat. No. APP-2R followed by 2 or 4, followed by E, H1 or H2; Power connection module, Cat. No. LAD-34 control connection module; Cat. No. APP-2D followed by 1 or 2, followed by may be D; ASI quick fit module, Cat. No. ASI followed by C or E, followed by R, followed by 2 or 4, may be followed by E.

Vertical mechanical interlock for F-Line reversers:Cat. No. LA9-F followed by F, G, H or J, followed by 4, followed by F, G, H or J.

Open:Type LC1-F followed by a letter, followed by 22, 23, 24, 42, 43 or 44, followed or not by a suffix letter, may or may not be followed by a 2 or 3 digit number; Cat. No. LE1-D followed by 09, 12, 16 or HN, 25 or LS, 40, 50 or RS, 63 or 80, followed by 3 or 4, followed by 0, 4 or 5 with or without 1, with or without a suffix letter, followed by two suffix numbers, followed by final suffix H7.

Type LE1-D or LE2-D followed by 50 or 63, followed by 3 or 9, followed by one or two letters, followed by 06 or 07, may be followed by 01 through 15, may be followed by 12, 24, 48 or 60.

Type LE1-D or LE2-D followed by 09, 12, 16, 25 or 32, followed by 3 or 9, followed by one or two letters, followed by 06 or 07, may be followed by 01 through 15, may be followed by 12, 24, 48 or 60.

Across-the-line: Open or enclosed, Type LC2-D followed by 09 or 12; followed by 3, 4 or 9 with or without suffix S009.

The following may be factory or field installed on the D line device: Cat. Nos. LA1-D followed by 04, 10, 11, 13, 20, 22, 40 or 1111; LA2-D20, -D22 or -D24; LA3-D20, -D22 or -D24.

The following may be factory or field installed on the F line contactors: LA1-F followed by two digit number, may or may not be followed by 1 or 9.

Across-the-line starters: Models LC1-D173, -D179.

Cat. Nos. LC1D, LC2D ac and dc coil devices followed by two digit numbers, may be followed by one digit number, followed by one or two letters, may be followed by a digit number. Kits for reversing contactor Cat. Nos. LAD9R1, LAD9R1V.

Cat. Nos. LC1DT, LC2DT ac and d.c. coil devices followed by two digit numbers, may be followed by one digit number, followed by one or two letters, may be followed by a digit number.

Cat. No. LC1D d.c coil devices followed by twodigit numbers, followed by 8, may be followed by one digit number followed by one or two letters, may be followed by a digit number.

Cat. No. DPE ac coil devices, followed by two digit numbers, may be followed by one digit number, followed by one or two letters, may be followed by a digit number.

Kit, Cat. Nos. LADT9R1, R1V for reversing contactors, Cat. No. LC2DT.

Kit, Cat. No. LADT3R1 for reversing contactor Cat. No. LC2DT203.

Reversing contactor, Cat. No. LC2-D179.

Across-the-line starter: Model LC1- followed by D323 or D329, may or may not be followed by A65 or A60.

Across the line starters: Enclosed, non-reversing or reversing, Type LF followed by 1 or 2, followed by M, followed by M or P, followed by 00D to 16D, followed by a blank or up to 6 alpha numeric digits, followed by U.

Reversing contactor: Cat. No. LC2-D329.

Reversing contactor: Cat. No. LC2-D followed by four or five digit number, may be followed by 6, may be followed by suffix letter.

Reversing contactor: Cat. No. LP2-D followed by four or five digit number, may be followed by 6, may be followed by suffix letter.

Across-the-line contactors: Cat. Nos. LC1SKGC301, -310, 400.

Across-the-line starters: Cat. Nos. LP4-D25 followed by a two digit number, may be followed by a suffix letter.

Adaptor for Integral products: Cat. No. LA9LB960; Bus bar Cat. No. LA9LB930; Door Interlocks Cat. Nos. LA9LB, LA9LC followed by three numbers.

Reversing contactors: Cat. Nos. LP5-D25 followed by a two digit number, may be followed by a suffix letter.

Mechanical interlock with incorporated electrical interlock contacts: Cat. No. LA9-D followed by a two digit number, followed by 02.

Auxiliary contact blocks, Cat. No. LA1SK02, -11, -20.

Reverser Wiring Kit: Cat. No. LA9-D followed by a two digit number, followed by 69 or 70.

Pilot device kit, Cat. No. LA9BA followed by 01 through 20, followed by W, may be followed by 12, 24, 48 or 60.

The following may be field or factory installed on the D17 device: Cat. Nos. LA9-D09978, -D17869.

The following may be field or factory installed on Cat. No. LC2-D329: Horizontal mechanical interlock-Cat. No. LA9-D09978; wiring kit-Cat. No. LA9-D32869.

Across-the-line motor starters (600 v max), Combination Motor Controllers Integral 63 line consisting of Cat. Nos. LD1, LD4, LD5 followed by LD, followed by 030 or 130, may be followed by a letter or group of two letters.

Overload protection unit which may be factory or field installed: on Cat. No. LD1, LD4 or LD5 devices: Cat. No. LB1 or LB6 followed by LD03, followed by a letter, followed by two digit number.

Across-the-line motor starters (600 v max) , Integral 18 Line consisting of Cat. No. LD1-LB and reversing starter Cat. No. LD5-LB followed by 030, may be followed by a letter or a group of two letters.

Magnetically operated contactors, open: Cat. No. LC1 followed by -D40, -D50, -D65, -D80 or -D95, followed by two, three or four digit number, may be followed by suffix letter or number ; Cat. No. LP1 followed by -D40, -D50, -D65, -D80, followed by two digit number, may be followed by suffix letter; Cat. Nos. LC1D, LP1D followed by 09, 12, 18, 25 or 32, followed by two or three digit number, may be followed by 6, may be followed by suffix letter; "Euronorme" Series magnetically operated contacts, Cat. Nos. LC1-D09, -D12, -D18, -D25, -D32 followed by 00, may be followed by suffix letter; Cat. No. LC1-D followed by a letter, followed by K, followed by two digits, may be followed by suffix letter and number; Cat. No. LC1-F followed by 115, 150, 185, 225, 265, 330, 400, 500, 630, 780, 800, 6309, may be followed by 2, 4 or 6, may be followed by additional numbers or letters; Cat. Nos. LC1-SB3, LC1-SC3, LC1-SD3.

The following may be factory or field installed on the D-line devices: Cat. Nos. LA1-D followed by 04, 10, 11, 13, 20, 22, 40 or 1111; LA2-D followed by 20, 22 or 24; LA3-D followed by 20, 22 or 24; LA9-D followed by 10, 11, 101, 09906 or 16906.

Tesys Offer - Cat. No. LC1 followed by -D40, -D50, -D65, -D80, -D95, -D115, -D150 may be followed by one digit number, may be followed by a suffix letter, may be followed by a one digit numbers or one suffix letter; Cat. No. LC2 followed by -D, -D115, -D150 may be followed by one or two digit number, may be followed by a suffix letter, may be followed by one digit numbers or one suffix letter.

Downstream terminal block , Cat. No. LAD-331.

Reversing contactor, Type LC2F or LE2F followed by three or four digit numbers, may be followed by one digit number, may be followed by a suffix letter and digit number.

Across-the-line contactors, AC motor or resistance air heating application :Types LC1-K, LC7-K followed by four, five or six digit numbers, may be followed by one or two letters and one or two digit numbers; Types LP1-K, LP4-K followed by four, five or six digit numbers, may be followed by one or two letters and one or two digit numbers.

Across-the-line reversing contactors, AC motor or resistance air heating application :Types LC2-K, followed by up to nine additional suffixes; Types LP2-K, LP5-K or LC8-K, followed by a two to four digit number.

Reversing and nonreversing across-the-line contactors: Cat. Nos. LC1 D115, LC1 D150, LC2 D115, LC2 D150 followed by two digit numbers, followed by one or two digit numbers, followed by one or two letters, followed by a digit number or a letter.

Enclosed across-the-line reversing or non-reversing starters: Type LF, followed by 1 or 2, followed by M, followed by M or P, followed by 00D to 16D, followed by a blank or up to six alpha-numeric digits, followed by U.

Connecting means for LC.D115 and 150 contactors: Cat. No. LA9 D115 followed by 50 or 60.

Mechanical Interlock kit for horizontally mounted LC2-D reverser: Cat. No. LA9 D11502.

Power connection module , Cat. No. LAD-341.

Power connection kit for horizontally mounted LC2-D reverser: Cat. No. LA9 D115 followed by 69, 70 or 71.

Vertical Interlock for F-line reverser, Type LA9F followed by a letter, followed by 4 or 9, followed by a letter or number 70 or 71.

Horizontal interlock for F-line reversers, Type LA9F followed by a letter, followed by 970.

Power connections, Type LA9F followed by a letter, followed by 976, 977 or 982; Type LA9F150 followed by 76, 77 or 82; Type LA9F800 followed by 76 or 82.

Open type magnetically latched 2, 3 or 4-pole, 2 or 3-phase AC motor controllers, Cat. Nos. CR1-F, LCI-F followed by a three or four digit number, may be followed by S011, may be followed by a single numeral, may be followed by additional suffix letters or numbers.

Across-the-line contactors: Class 8502, Types PC1, PC3, PC4, PCD3 followed by .01 or .10, followed by E, with or without Series designation; Class 8502, Type PCSI.00EN with or without Series designation; Class 9999, Types PZA, PZV followed by 48 or 250; Class 9999, Type PRC followed by 48, 220 or 380; Class 9999, Type PW followed by 13 or 22.

Field or factory installed kits: Class 9999, Type PMV (mechanical interlock); Class 9999, Type PRC followed by 48, 220 or 380 (transient suppressor); Class 9999, Type PZD (for Type PCD3).

Plug-in base receptacle, Model ZUC-Z1000.

Timer logic cards, Models ZUC-ZT01, -ZT15.

Modular system components, "Tego Power" system consists of the following:

Backplate, Cat. No. APP-1, followed by B, followed by 1, 2 or 4.

Connection block kit, Cat. No. APP-1, followed by D or K, followed by 1 or 2, followed by B, B4 or M.

Communication block, Cat. No. APP-1, followed by C, D, F or I, followed by AS, E, H, V, CO, DN, PF or IB, may be followed by a number 0 to 5.

Accessories, For use with "Tego Power":

Backplane connection parts kit, Cat. No. APP-1EL.

Electromechanical relay box, Cat. No. APP-1ER.

Static relay box, Cat. No. APP-1ES.

Open magnetically operated three or four pole contactors, Cat. Nos. LP.K and LC7K, followed by four, five or six digit numbers, may be followed by one or two letters and one or two digit numbers.

Low voltage ride-through modules, Cat. No. LADLVRT followed by 24V, 120V or 208V.

Motor starter , Cat. No. LUS followed by 12 or 32, may be followed by 0.

Reversing motor starter , Cat. No. LU2S followed by 12, 32, A0 or B0, followed by one or two letters.

Motor starter suitable for tap conductor applications , Cat. No. LUS followed by 12 or 32, may be followed by 0.

Reversing motor starter suitable for tap conductor applications , Cat. No. LU2S followed by 12, 32, A0 or B0, followed by one or two letters.

Control units , Cat. Nos. LUCA, LUCB, LUCD, LUCC, LUCM followed by a letter a digit or by a digit and a letter or by two digits, followed by one or two letters.

Reverser block, Cat. No. LU2M followed by 32 or B0, followed by one or two letters.

Side reverser block, Cat. No. LU6M followed by 32 or B0, followed by one or two letters.

Contact modules, Cat. Nos. LUFN, LUA1C followed by two digits.

Limiter Block , Cat. No. LUA LB1.

Side Mounted Contact module , Cat. No. LUA8E20.

Visualization module, Cat. No. LUFV2.

Alarm module, Cat. No. LUFW10.

Parallel wiring module, Cat. No. LUFC00.

AS-i communication module, Cat. No. ASILUFC5.

Modbus communication module, Cat. No. LULC031.

Parallel bus splitters, Cat. Nos. LU9G02, LU9GC3.

Control removable connection, Cat. No. LU9 followed by one or two letters, followed by one or two digits or by one letter and a digit.

Control pre-wired accessory, Cat. No. LU9 followed by one or two letters, followed by one or two digits or by one letter and a digit, followed by C.

Door interlock mechanisms, Cat. Nos. LU9AP00, LU9AP11, LU9AP12.

Controllers and multifunction motor protection relay , Cat. No. LUT M followed by 10 or 20, followed by BL.

Control units , Cat. Nos. LUCB T1, LUCD T1, LUCM T1 followed by BL.

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NLDX.GuideInfo Magnetic

[Industrial Control Equipment] (Motor Controllers) Magnetic

See General Information for Motor Controllers

This listing covers the following devices:

Across-the-line starters

Across-the-line starters with motor circuit switches

Reduced voltage starters such as Autotransformer, part-winding wye-delta, reactance and resistant type

Speed regulators

Combined starters and speed regulators

Magnetic switches for controlling other than motor loads are listed under Industrial Control Equipment — Switches, Magnetically Operated.

Magnetic motor controllers have been tested to determine their acceptability for continuous operation at their marked rated load.

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

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NJOT.GuideInfo Motor Controllers

[Industrial Control Equipment] Motor Controllers

See General Information for Industrial Control Equipment

This listing covers the following devices rated 600 v or less, and those rated 701-1500 v:

Auxiliary Devices

Combination Motor Controllers.

Float- and Pressure-Operated Motor Controllers

Magnetic Motor Controllers

Manual Motor Controllers

Miscellaneous Motor Controllers

Power Conversion Equipment

Some Motor Controllers are open type (without enclosures). This means that such devices are for use as parts of Listed equipment where the acceptability of the combination has been determined by Underwriters Laboratories Inc. or where open type devices are acceptable.

This Listing also covers enclosures for housing open type devices. Such enclosures are marked to identify the open type devices which may be suitably installed therein.

Motor Controllers intended for across-the-line starting and for making and breaking the circuit when the motor is stalled are tested at rated voltage and at six times motor full load running current for a-c ratings and at ten times motor full load running current for d-c ratings.

Motor Controllers incorporating thermal cutouts, thermal overload relays or other devices for motor running overcurrent protection are considered to be suitably protected against overcurrent due to short circuits or grounds by motor branch circuit, short circuit and ground fault protective devices selected in accordance with the National Electrical Code and any additional information marked on the product. Motor Controllers may specify that protection is to be provided by fuses or by an inverse time circuit breaker. If there is no marking on protective device type, controllers are considered suitably protected by either type of device. Motor Controllers may specify a maximum rating of protective device. If not marked with a rating, the controllers are considered suitably protected by a protective device of the maximum rating permitted by the National Electrical Code.

Unless otherwise marked, motor controllers incorporating thermal cutouts or overload relays are considered suitable for use on circuits having available fault currents not greater than:

Rating HP (600 V) Max	Full Load Current Amps (701-1500v)	RMS Symmetrical Amps
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1 or less	—	1,000
1-1/2 to 50	0-50	5,000
51 to 200	51-200	10,000
201 to 400	201-400	18,000
401 to 600	401-600	30,000
601 to 900	601-850	42,000
901 to 1600	851-1500	85,000

Motor Controllers which are marked "Suitable For Use On A Circuit Capable Of Delivering Not More Than _____ RMS Symmetrical Amps, _____ Volts Maximum" have been investigated for the additional rating indicated.

Motor Controllers for group installations are marked with a maximum rating of fuse which is considered to suitably protect the controller for the group installation. Such fuse ratings may be in excess of the values given above.

Controllers for Electric Motor Drive Fire Pumps are listed in the Fire Protection Equipment List under the Pump Controller section.

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NIMX.GuideInfo

Industrial Control Equipment

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.

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 one of the following product names as appropriate: "Industrial Control Equipment" (or "Ind. Cont. Eq. "); "Marine Industrial Control Equipment For Use Only On Vessels Over 65 Feet" .

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