NKCR.E332215 - AUXILIARY DEVICES

Auxiliary Devices

See General Information for Auxiliary Devices

KAP COMPONENTES ELETRICOS LTDA E332215
Rua Carmo do Rio Verde 78
04729-010 Sao Paulo, SP BRAZIL

Investigated to ANSI/UL 508

Accessories, body for position switches Model(s) *LB followed by 3 or 4, followed one numerical digit, may be followed by 2, 4 or 5.*

Accessories, heads for position switches Model(s) *LB followed by B, H, K, S, V, X, Y or Z.**

Accessories, levers for position switches Model(s) *LB followed by D, J, L, M or T.**

Limit Switches Model(s) *FR followed by additional letters and/or numbers.*

Position switches, enclosed type Model(s) *LB followed by 3 or 4, followed by 0 to 9, may be followed by 2, 4, 5, followed by B, H, K, S, V, X, Y, Z. may be followed by 51 to 99.**

* - May be followed by D, J, L, M or T, may be followed by up to two numerical digits.

Last Updated on 2015-01-22

NKCR.GuideInfo - AUXILIARY DEVICES

[Industrial Control Equipment] (Motor Controllers) Auxiliary Devices

See General Information for Motor Controllers

GENERAL

This category covers:

Magnetically operated control switches (relays)

Manually operated switches (push buttons, key-operated switches)

Biometrically operated switches (fingerprint/optically operated switches)

Pilot lights

Push-button stations (including parts such as pilot lights and selector switches)

Electronic, thermal and magnetic overload relays

Time-delay relays

Foot-operated switches

Flow switches

Liquid-level controls

Printed wiring board assemblies incorporating switched outputs

Some pilot lights and push-button assemblies are of a modular construction where individual parts, such as lenses, lampholders, operators and contact blocks, are individually certified and identified for use with mating parts.

These devices are intended for use in control circuits of magnetic motor controllers and the like. The contacts and switched outputs are marked with the voltage rating and whether they are intended for Standard Duty or Heavy Duty, or with a code designation such as A600, B600, etc. These codes represent the control circuit load that may be controlled by the device. The significance of each code is shown in the tables below. Standard Duty indicates ratings under Codes B and P; Heavy Duty indicates ratings under Codes A and N for the marked voltage rating.

Rating Codes for AC Control-circuit Contacts at 50 and 60 Hz

Contact Rating Code Dsg[a]	Thermal Continuous Test Current Amps	Max Current Amps[b]								Max Volt-amps	
		120 V		240 V		480 V		600 V			
		Make	Break	Make	Break	Make	Break	Make	Break	Make	Break
A150	10	60	6.00	—	—	—	—	—	—	7200	720
A300	10	60	6.00	30	3.00	—	—	—	—	7200	720
A600	10	60	6.00	30	3.00	15	1.50	12	1.20	7200	720
B150	5	30	3.00	—	—	—	—	—	—	3600	360
B300	5	30	3.00	15	1.50	—	—	—	—	3600	360
B600	5	30	3.00	15	1.50	7.5	0.75	6	0.60	3600	360
C150	2.5	15	1.5	—	—	—	—	—	—	1800	180
C300	2.5	15	1.5	7.5	0.75	—	—	—	—	1800	180
C600	2.5	15	1.5	7.5	0.75	3.75	0.375	3.00	0.30	1800	180
D150	1.0	3.60	0.60	—	—	—	—	—	—	432	72
D300	1.0	3.60	0.60	1.80	0.30	—	—	—	—	432	72
E150	0.5	1.80	0.30	—	—	—	—	—	—	216	36

[a]The numerical suffix designates the maximum voltage design values, which are to be 600 V, 300 V and 150 V for suffixes 600, 300 and 150, respectively.

[b]For maximum ratings at voltages between the maximum design value and 120 V, the maximum make and break ratings are to be obtained by dividing the volt-ampere rating by the application voltage. For voltages below 120 V, the maximum make current is to be the same as for 120 V, and the maximum break current is to be obtained by dividing the break volt-amperes by the application voltage, but are not to exceed thermal continuous test current.

These devices have not been investigated for providing restricted-access control to machinery or specifically defined areas. Such equipment is investigated to ANSI/UL 294, "Access Control System Units."

These devices have not been investigated with respect to functional-safety applications or as emergency stop switches; see Emergency Stop Devices (NISD).

Rating Codes for DC Control-circuit Contacts

Contact Rating Code Dsg[a]	Thermal Continuous Test Current Amps	Max Make or Break[b] Current Amps			Max Make or Break V Amps at 300 V or Less
		125 V	250 V	301 to 600 V	
N150	10	2.2	—	—	275

N300	10	2.2	1.1	—	275
N600	10	2.2	1.1	0.40	275
P150	5.0	1.1	—	—	138
P300	5.0	1.1	0.55	—	138
P600	5.0	1.1	0.55	0.20	138
Q150	2.5	0.55	—	—	69
Q300	2.5	0.55	0.27	—	69
Q600	2.5	0.55	0.27	0.10	69
R150	1.0	0.22	—	—	28
R300	1.0	0.22	0.11	—	28

[a]The numerical suffix designates the maximum voltage design values, which are to be 600 V, 300 V and 150 V for suffixes 600, 300 and 150, respectively.

[b]For maximum ratings at 300 V or less, the maximum make and break ratings are to be obtained by dividing the volt-ampere rating by the application voltage, but are not to exceed the thermal continuous test current.

PRODUCT IDENTITY

One of the following product identities appears on the product:

Aux. Dev.

Auxiliary Device

Ind. Cont. Eq.

Industrial Control Equipment

ADDITIONAL INFORMATION

For additional information, see Motor Controllers (NJOT), 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 ANSI/UL 508, "Industrial Control Equipment," or ANSI/UL 60947-1, "Low-Voltage Switchgear and Controlgear - Part 1: General Rules," and ANSI/UL 60947-5-1, "Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices."

Electronic, thermal and magnetic overload relays are investigated to ANSI/UL 508, or ANSI/UL 60947-1 and ANSI/UL 60947-4-1, "Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters."

Overload devices providing ground-fault-sensing features are additionally investigated to ANSI/UL 1053, "Ground-Fault Sensing and Relaying Equipment."

UL MARK

The Certification Mark of UL on the product, or the UL symbol on the product and the Certification Mark on the smallest unit container in which the product is packaged is the only method provided by UL to identify products manufactured under its Certification and Follow-Up Service. The Certification Mark for these products includes the UL symbol, the words "CERTIFIED" and "SAFETY," the geographic identifier(s), and a file number.

Alternate UL Mark

The Listing Mark of UL on the product, or the UL symbol on the product and the Listing Mark on the smallest unit container in which the product is packaged, 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.") or "Auxiliary Device" (or "Aux. Dev.").

* *

Information.

Last Updated on 2014-10-22