

Certification Record

Customer	Class	File Number
Schneider Electric USA, Inc. Square D Raleigh (Knightdale) Plant, 8001 Knightdale Blvd Knightdale NC USA 27545	<u>3211-03</u> INDUSTRIAL CONTROL EQUIPMENT- Motor Controllers - Auxiliary Devices	025490_S_000

- The following equipment is intended for use in control circuits of magnetic motor controllers and is rated 600V ac or dc max, except where noted.
- Class 8501, magnetic relays, open or enclosed, Types L, LL (with mechanical latch), LT (with timer attachment), 12 poles max rated 10A, pilot dutymake/break 7200/720VA, 600V ac max.
- Class 8501, magnetically operated control switches, open and enclosed, Type P, 600V ac max, heavy duty; Type F, 277V ac max, heavy duty.
- Class 8963, master switches, open, Types EQ2549, -2565 and -2566, 300V ac max heavy duty; 300V dc max, standard duty.
- Class 9991, Type UE-1 General Purpose Enclosure for use with Class 8501, Types CO and CDO Relays.
- Class 9001, pushbutton stations, Types K and T, 600V ac/dc; Type G, 600V ac, Type B, BF, BG, BO, 600V max, Std. pilot duty; Type BG, Type C, CO; Type EQ; Type L, 5A max, pilot duty 360VA, 600V ac max, 28VA, 300V dc max; Type M, 300V ac max, 5A max, Std. pilot duty; Type P Series A, 1/2 hp, 1-ph, 240V ac max; pilot duty AC make/break 120V, 40/15, 240V, 20/10, 480V, 10/6, 600V, 8/5; DC single throw, 1 double throw, 120V, 2/0.5, 240V, 0.5/0.2, 600V, 0.1/0.02 Type P, Series B, heavy duty 600V ac max, standard duty or heavy duty 600V dc max (different switches).
- Class 9001, Types BW-70 through -102 (with suffixes) AEQ3593-G1 and AEQ3593-G2 pendant pushbutton control stations, rated standard pilot duty, 600V ac/dc max.
- Class 9001, Type SPXBWEND5 and Type AEQ3370 pendant pushbutton control stations, rated 24V dc, 0.5W and Type AEQ3438, rated 24V dc, 1W.

Notes:

1. The Types BW, AEQ3593-G1 and AEQ3593-G2 are suitable for CSA Type 4X applications.
 2. The Type SPXBWPEND5 is suitable for CSA Types 4 and 12 applications.
 3. The Types AEQ3370 and AEQ3438 are suitable for CSA Type 12 applications.
- Class 9001, Type KA pushbutton stations, open type, with Suffixes -1 through 38 and Type KA-1 and KA-3, Series K; rated 120-600V ac, heavy pilot duty, 120-600V dc, standard pilot duty.
 - Type KR, followed by -1 through 25, followed by B, Y, A, G, L, R, W, S or U (may be doubled), may be followed by M (may be doubled), followed by Series F or G. Type KR, followed by 13 through 15 followed by 0 through 9. Rated: 120-600V ac, heavy pilot duty, 120-600V dc, standard pilot duty.

Note: These devices are assemblies of single units or two or more units stacked on Types K, SKS, SK or KX operators and Types K11, K12, K51, K52, SK52, SK52E and KXAK52 closing plates. Operators and closing plates were found suitable for use in "CSA ENCL. 4 and 5".

- Class 9001, pilot lights, Types JP, JT and JTR, 120V ac max, 120V dc max.
- Class 9001, Type KA-40 series, 1/4A, 120V ac, 50V dc resistive.
- Class 9001, Pendant Control Station, Type SKYP with suffixes, Series A and B, CSA Encl. Types 4X and 13 for use with Class 9001 nonmetallic operators and contact blocks.
- Class 9001, Multi speed pushbutton switch mechanism, Type SKRU, 30A, 120V ac, 15A, 240V ac, CSA Encl. 4.
- Class 9001, Types KM, KMF, KMM, Series F or G; Type KM55, KM58 and KM58Lx, Series H; Type PO, Series B or C; KXAKM and KXTE, Series A or B, Type KMxxL, Series H or J, Type KTR and SKTR, light modules, open type, 600V ac max, 50-60Hz, 550V dc max.

Note: These devices may be provided with illuminated operators Type K and SK, Series F, G or H; Type KR, Series G; Type TP and TPM, Series B and Type KX, Series A. The Types K and SK, Series H operators may be designated Types 1, 2, 3, 3R, 6, 12, 13. All Types K and SK, Series G except KR8P and KR9P may be additionally designated Type 4, all Type SK, Series H may be additionally designated 4X. All Type KX, Series A operators may be designated Types 1, 2, 3, 3R, 4, 4X, 6, 12 and 13.

- Class 9002, foot switches, Type AW, 600V ac/dc max.
- Class 9007, limit switches, open Types AF, BO-1, CO-3, -3A, -3B, -3S1 through -S6, -5, -5A, -5S1, -5AS1, -6, -7, -8, with or without suffix, AC pilot duty, rated 12-120Vac max, 3A; 120-600Vac max, 360VA; DC pilot duty, rated 115Vac, 1.0A, Double Pole Single-Throw, 0.2A, Double Pole Double-Throw, 230Vac, 0.3A, Double Pole Single-Throw, 0.1A, Double Pole Double-Throw, 600Vac, 0.1A, Double Pole Single-Throw; Types CB-2, -2S1, -31, -32, -32S1, -33, -33S1, -34, -34S1, -35, -36, -37, -41, -43, -45, AC pilot duty, rated 12-120Vac max, 3A; 120-600Vac max, 360VA; Types CO-7 and -8, General Purpose, rated 600Vac, 10A; AC pilot duty, rated 12-120 Vac max, 1.5 A (1.5 A break, 15 A make), 120-600 V, 180 VA (180 VA break, 1800 VA make); Type CC-1; Types CP-221, -221S1, -222, -223, -321, -323, -324, -325; Type CS-221.
- Class 9007, limit switches, enclosed, Types AW, FT, T, pilot duty ratings to 600V ac/dc. Type B, heavy pilot duty, 600V ac max (for use in ordinary locations).
- Class 9007, limit switches, open, Types AO, AB, AC, AD, AP, AS Series with suffixes and EQ-1359 and EQ-1404, single pole double throw, max ac pilot duty ratings as follows:

V ac

Break, A

Make, A

120	15	40
240	10	20
480	6	10
600	5	8

Note: For other ratings and dc pilot duty ratings, see report.

- Class 9007, Type PS, proximity switches, enclosed, code designation D150.
- Class 9007, Type C, limit switches, heavy pilot duty, 600V ac max (A600).
- Class 9007, open switches, Type DO-1 thru -8, 600V ac max, 10A, heavy-duty; Type DO-25 thru -57, 600V max ac/dc pilot duty.
- Class 9007, Type PE1 (with alpha-numeric suffixed) enclosed in CSA Encl. 4, 5, photo electric switches rated 120V ac input or 10-30V dc input, or 10-30V dc, 250mA or Code Designation E150.
- Class 9007, Type XA (with suffixes) and AEQ3263, enclosed need limit switches, rated 240V ac max, 0.2A max, 24VA max, 0.5A resistive max, 120V dc max, 0.5A resistive max, 24VA max.
- Class 9007XM limit switches, cord connected, followed by S or L followed by 01 through 13, followed by F, S or G followed by suffixes, ratings: Cat No 9007XMS...F, 5A, 250V ac; Cat No 9007XML...S, 10.1A, 250V ac; Cat No 9007XMS...G, 0.1A, 125V ac; environmental ratings: Type 1, 2, 4, 6, 6P, 12 and 13.
- Class 9007M limit switches, cord-connected, followed by "S" or "L" followed by 01 through 13, followed by "H", "S" or "G" followed by suffixes, ratings: Cat No 9007M...H, 10.1A, 250V ac; Cat No 9007M...S, 10.1A, 250V ac; Cat No 9007M...G, 0.1A, 125V; environmental ratings: Types 1, 2, 3, 4, 6, 6P, 12 and 13.
- Class 9012, Types ACW, ADW, AMW and DCW, pressure operated switches, enclosed, single- or double-pole, single- or double-throw, rated 600V max ac or dc (Forms G1 and G2 are limited to 250V max ac or dc) Types GAW, GBW, GCW, GDW, GEW, GFW, GGW, GHW, GJW, GKW, GLW, GMW, rated 600V max ac/dc, pilot duty.

- Class 9012, pressure operated switches, open or enclosed, spat, types GNG, -GNO, GNW, GPG, -GPO, GPW, GQG, -GQO, GQW, GRG, -GRO, GRW, GSG, -GSO, GSW, GTG, -GTO, GTW, pilot duty, rated A600 (600V ac max, make 7200VA, break 720VA), R300 (250V dc max, make/break 28VA inductive).
- Class 9012, Types G (with suffixes) Series C pressure operated switches, enclosed in CSA Type 4 enclosure, single or double pole rated A600, Q600 and R300 with pilot light rated 24V, 125V or 250V.
- Class 9012, Types ACW and ADW pressure switches, enclosed type, rated (pilot duty ratings) 40A make, 15A break, 120Vac; 20A make, 10A break, 240Vac; 10A make, 6A break, 480Vac; 8A make, 5A break, 600Vac; 0.5A make-break, 115Vdc, single throw; 0.25A make-break, 230Vdc, single throw; 0.05A make-break 600Vdc, single throw; 0.25A make-break, 115Vdc, double throw; 0.1A make-break, 230Vdc double throw.
- Class 9016, Types AMW and BMW with suffixes, vacuum-operated switches, enclosed, single- or double-pole, various make/break (pilot duty) ratings (different switches), ac and dc, 600V and less.
- Class 9039, Type H, magnetically-operated alternators, open (HO-) or enclosed (HG-), for single (-2) or double (-22) power circuit application, 600V ac max, standard duty.

Note: Suffix letters and numbers added to Class 9007 Type PS switches indicate sensing head orientation sensitivity, input and output power system, standard and special options.

- Class 9001 Multi speed pushbutton switch mechanism is for use only in equipment where the short-circuit capacity of the circuit in which they are connected is limited by fuses having ratings not exceeding the ratings of the devices.
- Float operated switches, open and enclosed type; Class 9035, Types DG31 or DW31 with suffixes, rated 1 hp, 115/230V ac, 1/4 hp, 32/115/230V dc, A300; Class 9035, Type DG30 or DW30; Class 9036, Type DG2 or DW31 with suffixes and Type FG30. Class 9037, Type DG, DW, EG, EW, HG or HW with suffixes; Class 9038, Type AG, AW, BG, BW21-23, CG, CW31-36, DG, DW7-10, JG or JW1-8 with suffixes, rated single phase - 2 hp, 115V ac, 3 hp, 230V ac, 1 hp, 460/575V ac, polyphase - 3 hp, 115V ac, 5 hp, 230V ac, 1 hp; 460/575V ac, 1/2 hp, 32/115/230V dc, A600. The auxiliary alarm switches rated as follows: With form N5 and with Type G enclosure (sheet metal).

AC Pilot Duty

DC Pilot Duty

Volts

Break

Make

Volts

Amp

110	15A	40A	115	0.5A
220	10A	20A	230	0.25A
440	6A	10A	600	0.005A
600	5A	8A	-	-

- Devices with Type W enclosure (cast metal), using Cat No V3-271 switch by Micro Switch, rated 10A, 1/3 hp, 125/250V ac, 4A, 125V ac.
- With Form N25:

	AC Pilot Duty	DC Pilot Duty Volts	DC Pilot Duty Single- Throw	DC Pilot Duty Double- Throw
12-120V ac,	3A	120	1.0A	0.2A
120-600V ac,	360VA	240	0.3A	0.1A
10A, 600V ac	(gen. purp.)	600	0.1A	-

- Open type devices are Certified as components for use only in other Certified equipment where the suitability of the combination is determined by the CSA International.
- "Loxswitch" machine tool limit switches, Models L100W and L300W followed by DL, DR, NCS, NS, S, heavy duty, 600V ac max, Rating Code A600; L100 and L300W followed by TL or TR, heavy duty, 600V ac max, same polarity M3, M3M, M32 and M4, 600V max (standard duty), Rating Code B600; Models C, C2, C2B, heavy duty, same polarity, 600V ac max, Rating Codes A600 or B600; Models C, C3, C3B, C4, C4B, standard duty, same polarity, 300V ac max, Rating Code B300.
- "Loxswitch" machine tool limit switches, modular, comprising assembly of receptacle, plug in switch body and various style operation heads, Series K, switch Models K102, 600V ac max, heavy duty (same polarity), Rating Codes A600 or B600; K104, 300V ac max, standard duty (same polarity), Rating Code B300.
- Limit switches, Type MS, 25V ac and less, 5A max.
- Limit switches, Types SGA-8018, 1A, 250V dc; SGO-8026, SGOL-8026 and SGO-8110, 3A, 120V ac.
- Limit switch, Type XCK-L, rated 240V ac, HD dc, SD dc or 60VA max (same polarity), with metal enclosure (CSA ENC 4).
- Master switches, open types, Type XD2-PA, 4 contacts max; XD2-GA, 8 contacts max, 5A, 600V ac and/or code rating A600, Q600.
- Pushbutton switches, open types with screw type terminals or with male terminals for use with quick disconnect female terminals, Type ZB2-BE, 5A 600V ac and/or code rating A600, Q600.
- Pilot lights, open type, lamp Ba9s, 1.2W, Type ZB2-BV1, -2, -3 and -4, with transformer Types ZB2-BV94, ZB2-BV95 and ZB2-BV96, 600V max, 60Hz/6V-1.5W max; ZB2-BV6, 125V, 2.5W max; ZB2-BV7 with resistor, 220V, 2.6W max.
- Relays, open or enclosed Types J10C, J11C, J13C and J14C, with suffixes, contact ratings: 600V ac max, 250V dc max, make 7200VA or 60A max; break 720VA or 10A max, general purpose rating 10A, 600V ac max. Coils 600V ac max, 230V dc max.
- Class 9001, Types E2SS and E2SSG operator stations, rated input 120V ac at 50/60Hz; output 1/4 hp at 250V ac; 5A, 150V ac max, 80 percent pf; 5A, 25V dc res; C150 pilot duty. Suitable for CSA Type 12 and 13 applications.

Notes:

1. Open type relays are Certified, as components, for use only in other Certified equipment where the suitability of the combination is determined by the CSA International.
 2. The pushbutton switches ZB2-BE and the pilot lights ZB2-BV may be combined. The combinations are ZB2-BW01, -02, etc. followed by a reference number indicating the type of pilot light.
 3. The pushbutton switches Type ZB2-BE and the master switches Type XD2-..are Certified only in circuits over 300V where the short circuit capacity is limited by fuses not exceeding the ratings of the devices.
 4. The type designations of the combinations are completed by a digit indicating number of contacts and contact shape.
- Class 9007, limit switches, enclosed, Type C or CO-54, -62, -64, -66 and -68 (with suffixes), Series A and AEQ3524. Electrical ratings are as follows: All Cat Nos: Heavy pilot duty, 600V ac max (A600). Cat Nos with form designations P5 to P10, L2, L3, L33, Y20 to Y23, Y128, Y140-Y142, Y147, Y152, Y185-1, Y185-2, Y190-1 and Y193: Single-phase, 1/3 hp at 115V ac (per pole), 3/4 hp at 230, 460 and 575V ac. Single-pole only: 69VA, 600V dc max (Q600). Double-pole only: 28VA, 300V dc (R300). Devices with pilot lights for form designation Y193 are rated 120V ac or 125V dc max, contacts rated A150, R150. Devices with form designation Y-156-1 are rated 138VA, 125V dc max (P150).

Notes:

1. The type designations may be followed by suffixes denoting constructional differences and optional features.
2. Devices are suitable for CSA Type 4, 6P and 12 applications, except those with form designations P, Y185-1, Y185-2, Y190-1 or Y205. See Nomenclature for explanation of form designations.

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