

**MODEL NUMBERS-
QUARTER-TURN SERIES**

AA = LEA/LEB AK = BT100
 AB = Z3 AL = AT80
 AC = OA6 AM = BT150
 AD = OA8 AN = AT100
 AE = OA15 AO = AT200
 AF = AT18 AP = AT400
 AG = AT25 EA = MAS1
 AH = AT50 EB = MBS2
 AJ = BT50

**QUARTER-TURN WITH
GEARBOX SERIES**

BA = SRA6RS50 PJ = ST14RS1825G
 BB = SRA6RS100 PK = ST14RS3030G
 BC = SRA6RS250 PL = ST30RS1825
 BD = SRA6RS600 PM = ST30RS1825G
 BE = SR12RS50 PN = ST30RS3030G
 BF = SR12RS100 PP = ST30RS5035G
 BG = SR12RS250 PR = ST70RS3030
 BH = SR12RS600 PS = ST70RS5035
 BI = SRCRS600 PT = ST70RS6340
 BJ = SR12RS1825G
 BK = SR12RS3030G
 BL = SR25RS1825
 BM = SR25RS1825G
 BN = SR25RS3030G
 BP = SR25RS5035G
 BR = SR50RS3030 DA = MARS50
 BS = SR50RS5035 DB = MA4RS100
 BT = SR50RS6340 DC = MARS100
 BU = SR6RS250 DD = MA4RS250
 PA = ST6RS50 DE = MARS250
 PB = ST6RS100 DF = MB1RS432
 PC = ST6RS250 DG = MBR5432G
 PD = ST6RS600 DH = MA4RS432G
 PE = ST14RS50 DJ = MBR5600
 PF = ST14RS100 DK = MBR51825G
 PG = ST14RS250 DL = MB1RS1825G
 PH = ST14RS432 DM = MB1RS3030G
 PI = ST14RS600 DN = MCR5035G
 DP = MCR5035

SPRING RETURN SERIES

SA = FQZ6 SF = FQ4
 SB = FQ8 SG = FQ12
 SC = FQ18
 SD = FQ30
 SE = FQ50

MULTI-TURN SERIES

CA = EH = ST6
 CB = A & MA EI = ST14
 CC = B & MB EJ = ST30
 CD = B1 EK = ST70
 CE = C FA = MBS2
 CF = C3 GA = SRA6RR2.5
 CG = SRA6 IA = ST14RR2.5
 CH = SR6 IB = ST14RR5
 CI = SR12 JF = ST30RR20
 CJ = SR25 KD = SR50RR20
 CL = SRC LC = SRCRR2.5
 LE = SRCRR10

OPERATING SPEEDS

LE-SERIES = MODEL NUMBER
 DIRECT DRIVE = SECONDS
 DOUBLE DRIVE = SECONDS
 MULTI-TURN = REVOLUTION PER MINUTE

ENCLOSURE TYPE

4 = NEMA TYPE 4
 6 = NEMA TYPE 6
 7 = NEMA TYPE 7

**MOTOR VOLTAGE
PHASE/HZ/VOLTAGE**

A = 1 / 60 / 115 VAC
 B = 1 / 60 / 220 VAC
 C = 3 / 60 / 460 VAC
 D = 3 / 60 / 600 VAC
 E = 3 / 60 / 230 VAC
 G = 1 / 50 / 220 VAC
 H = 3 / 50 / 380 VAC
 I = 3 / 50 / 400 VAC
 J = 1 / 50 / 115 VAC
 K = 24 VDC
 L = 1 / 60 / 24 VAC
 M = 120 VDC
 N = 125 VDC
 P = 250 VDC
 Q = 3 / 50 / 415 VAC
 R = 3 / 60 / 208 VAC
 S = 3 / 60 / 400 VAC
 T = 24 VAC / VDC

**MOTOR
DUTY CYCLE/TORQUE**

A = 30% DC/100% TQ
 B = CLASS II
 C = CLASS III

**CONTROL
SWITCHES**

2 = 2 EACH SPDT
 4 = 4 EACH SPDT
 6 = 6 EACH SPDT
 3 = 2 EACH DPDT
 5 = 4 EACH DPDT
 7 = 6 EACH DPDT

OTHER ASSEMBLY

AA = STANDARD
 AB = TAM
 AC = INTEGRAL CONTROLS
 AD = TORQUE RELAYS
 AE = DEMO BOX
 AF = CONTROL RELAY
 AL = LOW TEMP GREASE
 AM = 180° ROTATION
 AP = PRECISION POT
 AY = MYLAR POT
 BA = BERNARD STD.
 C2 = INTEGRAL+ CLASS II
 CB = CONTROLS w/TAM
 CD = INT+ DOUBLE SEAL
 CL = CONTROLS w/LIGHTS
 CR = CONTROLS REMOTE BOX
 CT = CONTROLS w/TIMER
 DA = DEFERRA SPEC.
 DS = DDPD SWITCHES
 EA = WIRED /EL-BOX

F1 = FOOT MTG & PRECIGAM
 F2 = FOOT MTG & MODUGAM
 F3 = FOOT MTG & POSIGAM+
 F4 = FOOT MTG & MINIGAM+
 FC = FOOT MTG & INT+
 FG = FOOT MTG & HT GREASE
 HG = HIGH TEMP GREASE
 HM = HT GREASE & 180° ROTATION
 HS = HERM. SEALED SW.
 I1 = INTELLI+ MODBUS
 I2 = INTELLI+ PROFIBUS
 IA = INTELLI+ STD.
 IT = INTELLI+ w/TRANSMITTER
 IM = INTELLI+ MODULATING
 JG = JOHNSON GAS

MA = MULTIPLE TURN OA
 ML = PGAM w/LIGHTS
 MP = GAM w/PUSHBUTTON
 MQ = MULTIPLE TURN OA w/TAM
 MR = POSIGAM+ REMOTE
 MS = POSIGAM+
 M1 = MODUGAM
 M2 = PRECIGAM
 MR = POSIGAM w/SS RELAYS
 MT = GAM & TAM
 MY = GAM & MYLAR POT
 NA = MINIGRAM+
 NS = MINI-GAM+
 NF = MINIGAM+ FOOT & LEVER
 RM = 180° REMOTE INTEGRAL+
 NG = MINI-GAM w/H TEMP GREASE
 SG = SS FASTENERS & HT GREASE
 WT = WATERTRONICS
 XC = CERIC 20mm bore x 6mm key 45°
 XS = FOOT MOUNT w/LEVER

AD 025 - 4 AC205 0MS

**HEATER
VOLTAGE/WIRING**

0 = NONE
 A = 115 VAC / SERIES
 B = 115 VAC / ISOLATED
 C = 24 VAC / SERIES
 D = 220 VAC / SERIES
 E = 220 VAC / ISOLATED
 F = 24 VDC / ISOLATED
 G = 250 VDC / ISOLATED
 H = 380 VAC / SERIES
 J = 460 VAC / ISOLATED
 K = 415 VAC / ISOLATED
 L = 125 VDC / SERIES
 M = 600 VAC / SERIES

**POTENTIOMETER / TAM
-SINGLE -DUAL**

0 = NONE 0 = NONE
 1 = 100 OHM 1 = 100 OHM
 2 = 135 OHM 2 = 135 OHM
 3 = 150 OHM 3 = 150 OHM
 4 = 500 OHM 4 = 500 OHM
 5 = 1000 OHM 5 = 1000 OHM
 6 = 5000 OHM 6 = 5000 OHM
 7 = 10,000 OHM 7 = 10,000 OHM
 8 = 15,000 OHM 8 = 15,000 OHM
 9 = 9,000 OHM 9 = 9,000 OHM

**TITLE: BERNARD
PART NUMBER
BREAKDOWN**

SO No.	DRWN BY W COLE	DATE 4/94
CHKED BY R. UPTON	DATE 4/94	APVD BY R UPTON
	DATE 4/94	

BCI
 BERNARD CONTROLS, INC.
 15740 Park Row, #100
 Houston, Texas 77084

DWG. No.	64256	Y
SHEET	1 OF 1	REV