BCS 7700 Firing Rate Motor

M7484 BCS 7700 Firing Rate Motor

Low voltage, reversing, proportional modutrol motor used to drive a fuel valve and combustion air damper as commanded by the BCS 7700.



Electronic vibration-resistant drive

Die-cast aluminum case.

Feedback potentiometer circuit provides position indication input to the BCS 7700 System, as well as Low and High fire position proving.

Double-ended, ¾ in. square crankshaft.

APPROVALS:

Underwriters Laboratories Inc. Component Recognized: File No. MP268, Guide No. MCCZ.

Canadian Standards Association Certified: LR95329-1.

Industrial Risk Insurers Acceptable.

TEMPERATURE RATINGS:

Operating: 32 F to 150 F (0 C to 66 C). Shipping: -30 F to +150 F (-35 C to +66 C).

HUMIDITY RATINGS: 85% relative humidity continuous, noncondensing.

VIBRATION: 0.5g continuous.

TORQUE BREAKAWAYa: 300 lb.-in.

DEADWEIGHT LOAD ON SHAFT:

Power End: 200 lb. (91 kg) maximum. Auxiliary End: 100 lb. (45 kg) maximum.

a The maximum torque available to overcome occasional large loads, such as seized damper or valve. MUST NOT BE USED CONTINUOUSLY AT THIS RATING.

ELECTRICAL RATINGS:

Terminal	Description	Rating 0V		
G	Common (Negative Supply)			
Υ	Power Supply from BCS 7700	8.0V ±0.050 Vdc		
	Overvoltage continuous	9.0 Vdc Maximum		
T	Signal to BCS 7700	1.5 - 5.5 Vdc		
1	Damper Motor Close	24 Vac, 50/60 Hz		
. 5	Damper Motor Open Damper Motor Common			
3				

CURRENT DRAW: 0.8A at 24 Vac. POWER CONSUMPTION: 18W.

ACCESSORIES:

ES650117 Explosion-proof housing. Encloses motor for use in hazardous locations. Not for use with Q100 Valve Linkage.b

Q100 Linkage. Connects motor to butterfly valve. Q601 Linkage. Connects motor to water or steam valve.

Q618 Linkage. Connects motor to water or steam valve.

Q181A Auxiliary Potentiometer. Controls additional Series 90 Modutrol Motor.

220738A Adapter Bracket. Adjusts shaft height to match M741B. Q607 Auxiliary Switch. Controls auxiliary equipment as a function of motor position.

Q605 Damper Linkage. Connects motor to damper and includes a motor crank arm.

7617ADW Adjustable Modutrol IV Motor Crank Arm.

4074ERU Weatherproofing Kit. Weatherproofs motor.

220741A Screw Terminal Adapter. Used to convert motor quickconnect terminals to screw terminals.

b Available only through Nelson Electronics, Order Services Dept., P.O. Box 726, Tulsa, OK 74101; (918) 627-5530.

Order Number	Electrical Ratings, Power Supply	Timing Opening	Stroke (degrees)	Includes	Dimensions, Approximate
M7484A1010	24 Vac, 50/60 Hz	30 sec.	90		5½ in. (140 mm) wide, 75/16 in. (185 mm) high, 615/32 in. (164 mm) deep.

EPRI Edgemont Precision Rebuilders, Inc Matlack Industrial Center 207 Carter Dr Unit C West Chester, PA 19382 800-356-3774