

MICROFILMED

INFORMATION
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SUBJECT TO REVISION
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COPY

— BREAKER CONTROL REFERENCE DRAWING SELECTION —

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| 1) ALL APPLICATIONS FOR WHICH 13.8 KV SWITCHGEAR BREAKERS ARE REQUIRED | SEE DWG. NO. 1-Z-2990, SHT. 1. |
| 2) ALL APPLICATIONS FOR WHICH 4.16 KV BOP SWITCHGEAR ARE REQUIRED | SEE DWG. NO. 1-Z-2990, SHT. 2. |
| 3) ALL APPLICATIONS FOR WHICH 4.16KV ESF SWITCHGEAR ARE REQUIRED | SEE DWG. NO. 1-Z-2990, SHT. 3. |
| 4) ALL APPLICATIONS FOR WHICH 480 V SWITCHGEAR BREAKERS ARE REQUIRED | SEE DWG. NO. 1-Z-2990, SHT. 4. |
| 5) FOR APPLICATIONS WHICH REQUIRE 4.16KV SWITCH GEAR WITH LOCKOUT | SEE DWG. NO. 1-Z-2990, SHTS |

TERA
APERTURE
CARD

— MOTOR CONTROL CENTER STARTER CONTROL REFERENCE DRAWING SELECTION —

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| 1) ALL APPLICATIONS FOR WHICH ELECTRICAL FAULT ALARMS ARE REQUIRED | SEE DWG. NO. 1-Z-2991, SHEET 1. |
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— MOTOR OPERATED VALVE REFERENCE DRAWING SELECTION —

FULL TRAVEL OPERATION (SEE NOTE 1)	JOG OPERATION (SEE NOTE 2)	OPEN TRAVEL LIMITED BY		CLOSED TRAVEL LIMITED BY		THERMAL OVERLOAD PROTECTION		DRAWING No. E-2992	
		TORQUE SWITCH	LIMIT SWITCH	TORQUE SWITCH	LIMIT SWITCH	TRIP ON OVERLOAD	ALARM ON OVERLOAD	SHEET NO.	
X			X		X	X		1	
X			X	X		X		2	
X		X		X		X		3	
	X		X		X	X		4	
	X	X		X		X		5	
	X	X		X		X		6	
X			X		X		X	7	
X			X	X			X	8	
X		X		X			X	9	
	X		X		X		X	10	
	X	X		X			X	11	
	X	X		X			X	12	

NOTE 1: THE VALVE WILL TRAVEL TO ITS FULL LIMIT ONCE IT RECEIVES A COMMAND REGARDLESS OF LOSS OF THAT COMMAND TO TRAVEL IN THE OPPOSITE DIRECTION.

NOTE 2: THE VALVE WILL OPERATE IN THE DIRECTION CHOSEN ONLY SO LONG AS THE COMMAND SIGNAL IS PRESENT.

NOTE 3: THE TORQUE SWITCH FUNCTION IS TO PROTECT AGAINST MECHANICAL OVERLOADS ANYWHERE BETWEEN FULL OPEN & CLOSED POSITIONS OF THE VALVE.

PKG. NO. 07 / AREA 030

DATE	DESCRIPTION	BY	CHK	PROJ	PROJ	ENG	MGR	DATE	DESCRIPTION	BY	CHK	PROJ	PROJ	ENG	MGR
11/17/79	REV AS NOTED; ISSUED FOR USE	SL		SL		SL									
08/26/79	REVISED AS NOTED	SL		SL		SL									
08/26/79	REVISED AS NOTED	SL		SL		SL									
08/26/79	ISSUED FOR USE	SL		SL		SL									

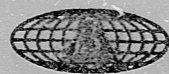

Brown & Root Inc.
ENGINEERS-CONSTRUCTORS
HOUSTON, TEXAS

**SOUTH TEXAS
PROJECT**

DRAWING TITLE
STANDARD
LOGIC SYMBOLS

CONTRACT NO. SCALE
CR-0241 N/A
DRAWING NO. 1-Z-2990D
SHT. 3

INFORMATION PRELIMINARY REVIEW USE CONSTRUCTION



BROWN & ROOT INC.
MICROFILM SERVICES

THURSDAY, NOV. 3 1979



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