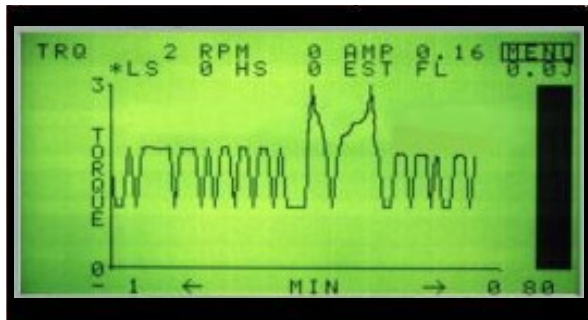


# M74 PUMP CONTROL

## VARIABLE FREQUENCY DRIVE



### Proprietary PCP Application Software

Protection	Features
<ul style="list-style-type: none"> <li>· Input Line reactor</li> <li>· Internal Programmable “Back Spin” Protection Timer</li> <li>· Low Torque Shutdown</li> <li>· High Rod Torque Shutdown</li> <li>· Max Rod Torque Shutdown</li> <li>· Low DC Voltage Shutdown</li> </ul>	<ul style="list-style-type: none"> <li>· MODBUS</li> <li>· Removable Keypad with optional keypad mounting kit.</li> <li>· Multi-Monitor screen (AMPS, Speed and ROD Speed)</li> <li>· Presco (High Pressure Switch) Shutdown and indication/message with automatic restarts</li> <li>· 480Vac/60Hz/380V/50Hz operation</li> <li>· 50° C ambient operating temperature rated</li> <li>· Configurable Pump Intake Pressure Analog input</li> <li>· Configurable Casing Gas Pressure Analog input</li> </ul>
More Features and Options	Optimization Options
<p>Type 3R Fan cooled enclosure complete with:</p> <ul style="list-style-type: none"> <li>• Add the <b>WellMax Data Logger and Optimizer</b></li> <li>• Included 120VAC Control Transformer</li> <li>• Included 24VDC power supply at 100mA</li> <li>• Included Lightning Arrestor</li> <li>• Included Fused Disconnect /Circuit Breaker</li> <li>• Included Operator Control and Display with lockable panel cover</li> <li>• Add Expansion cards: Additional analog, digital &amp; relay outputs.</li> <li>• Optional: Stellar Tech’s <b>MODBUS Data Logger</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>WellMax Data Logger and Optimizer</b></li> <li>• Up to 30 days historical data plot available on-site.</li> <li>• All data stored integrally within the WellMax. No lost data due to loss of communications.</li> <li>• View data on Internet with optional communication device.</li> <li>• No polling time. Information is available immediately in real time with optional communication device.</li> <li>• Monitor and control existing sensors such as surface pressure, flow-line pressure, temperature, vibration and water-cut.</li> <li>• Protect ↔ Control ↔ Optimize.</li> <li>• P.C. Pumps ↔ Rod Pumps ↔ ESP’s.</li> <li>• Optional: Stellar Tech’s <b>MODBUS Data Logger</b></li> </ul>



# M74

## 480V CLASS

### VFD SPECIFICATIONS

Type	M74-□□□□																	
	00023	00038	00052	00083	00126	00170	00250	00310	00380	00470	00620	00770	00930	01160	01800			
Typical Applicable HP (Constant Torque)	1	2	3	5	7.5	10	15	20	25	30	40	50	60/75	100				
Typical Applicable HP (Variable Torque)	1	2	3	5	7.5	10	15	20	25	30	40	50	60	75	100			
Continuous Current (A) - SLD	2.3	3.8	5.2	8.3	12.6	17	25	31	38	47	62	77	93	116	180			
Continuous Current (A) - LD	2.1	3.5	4.8	7.6	11.5	16	23	29	35	43	57	70	85	106	144			
Overload Capacity - SLD	110% for 60 secs. 40° C Ambient at 2kHz. Switching frequency																	
Overload Capacity - LD	120% for 60 secs. 50° C Ambient at 2kHz. Switching frequency																	
Output Voltage	380 - 460V PWM																	
Available Breaking Torque	15% Torque Continuous																	
Three Phase Input Voltage Tolerance	323 - 528V at 50 / 60 Hz.																	
Supply kVA	2.5	4.5	5.5	9	12	17	20	28	34	41	52	66	80	100	137			
Protective Structure	NEMA 1 Rated - UL Type 1 Plenum Rated																	
IP Rating	IP20										IP00							
Cooling Method	Self Cooling					Force Cooling												
Frame Size	C			D			E			F			G			H		
Approx Weight lbs (kgs)	7.7 (3.5)			14.3 (6.5)			16.7 (7.5)			28.7 (13)			51 (23)			77 (35)		

Type	M74-□□□□																	
	02160	02600	03250	03610	04320	04810	05470	06100	06830	07700	08660	09620	10940	12120				
Typical Applicable HP (Constant Torque)	125/150	175	200	250	300	350	400	450	500	550	600	650	700	750				
Typical Applicable HP (Variable Torque)	175	200	250	300	350	400	450	500	550	600	650	700	750	800				
Continuous Current (A) - SLD	216	260	325	361	432	481	547	610	683	770	866	962	1094	1212				
Continuous Current (A) - LD	180	216	260	325	361	432	481	547	610	683	770	866	962	1094				
Overload Capacity - SLD	110% for 60 secs. 40° C Ambient at 2kHz. Switching frequency																	
Overload Capacity - LD	120% for 60 secs. 50° C Ambient at 2kHz. Switching frequency																	
Output Voltage	380 - 460V PWM																	
Available Breaking Torque	15% Torque Continuous																	
Three Phase Input Voltage Tolerance	323 - 528V at 50 / 60 Hz.																	
Supply kVA	165	198	248	274	329	367	417	462	521	567	660	733	834	924				
Protective Structure	NEMA 1 Rated - UL Type 1 Plenum Rated																	
IP Rating	IP00																	
Cooling Method	Force Cooling																	
Frame Size	J		K		L		M			N			P					
Approx Weight lbs (kgs)	110 (50)		125 (57)		158 (72)		242 (110)			484 (220)			517 (235)			627 (285)		

Frame Size	Dimensions in inches (mm)		
	Height	Width	Depth
A	10.2 (260)	4.3 (110)	4.3 (110)
B	10.2 (260)	4.3 (110)	4.9 (125)
C	10.2 (260)	5.9 (150)	5.5 (140)
D	10.2 (260)	8.7 (220)	6.7 (170)
E	11.8 (300)	8.7 (220)	7.5 (190)
F	15.8 (400)	9.8 (250)	7.5 (190)
G	21.7 (550)	12.8 (325)	9.8 (250)

Frame Size	Dimensions in inches (mm)		
	Height	Width	Depth
H	21.7 (550)	17.1 (435)	09.8 (250)
J	24.4 (620)	18.3 (465)	11.8 (300)
K	29.1 (740)	18.3 (465)	14.2 (360)
L	39.8 (1010)	19.6 (498)	15.0 (380)
M	39.8 (1010)	26.8 (680)	15.0 (380)
N	52.4 (1330)	31.1 (790)	17.3 (440)
P	62.2 (1580)	39.2 (995)	17.3 (440)

		A7AX	A7AY	A7AR	A7NP	A7ND	A7NC	A7NT	A7NL
Communications	12 Bit Digital Input	•							
	Digital Output		•						
	Ext. Analog Output		•						
	Relay Output			•					
	Profibus DP				•				
	Devicenet					•			
	CC-Link						•		
	Metasys							•	
	Lonworks								•

**Options & Accessories:** FR-PU07: 10 button programming keypad (use in conjunction with FR-CB20 cables). Allows display in English, Japanese, German, French, Spanish and Italian.