The **NORCHEM POWDERCAT MODEL NP-4250** automatic dry polymer system is designed to process 1000 to 5000 lbs/day of dry polymer at 0.1 to 0.5 % solution concentrations. The NP-4250 system is modular in design consisting of polymer wetting module, control panel, volumetric feeder and booster assembly.

POWDERCAT

NP-4250

POWDERCAT MODEL NP-4250 DRY POLYMER SYSTEM SPECIFICATIONS

FRAME:	BASE: CONSTRUCTION:	36" W x 50" L x 38" H 304SS BASE
DRY FEEDER:	TYPE: DRIVE / MOTOR:	VOLUMETRIC w/FLEXLINER AGITATION, 0.0 TO 30.0 CU/FT HR 1/2 HP AC DRIVE, 1/2 HP, 0-160 RPM TENV MOTOR
PROCESS MODULE:	PPM: MOTOR RATING:	STAINLESS STEEL UPPER / LOWER HOUSING, ROTOR AND DRIVE STAINLESS STEEL HERMETICALLY SEALED CHEMICAL SERVICE 1 1/2 HP, 3450 RPM, STAINLESS STEEL ROTOR AND HOUSING
SYSTEM CAPACITY:	WETTING RATE: DRY LBS/DAY: PRIMARY FILL: SECONDARY FILL: TOTAL FILL RATE:	0 TO 30.0 LBS/MIN 1000 LBS @ 0.1% / 5000 LBS @ 0.5% SOLUTION CONCENTRATION 250 GPM NONE 250 GPM
PANEL/CONTROLS:	NEMA 12:	ALLEN-BRADLEY 1500 PLC, CONTACTORS, SWITCHES, RELAYS; CONDUCTIVITY LEVEL CONTROL, WATER PRESSURE SWITCH
UTILITIES:	ELECTRICAL: WATER:	480/3/60 60 AMP 50 – 100 PSI, 300 GPM CLEAN SOURCE
OPTIONS:	PANEL: LEVEL: STORAGE: LOW POLYMER:	NEMA 4X, PANELVIEW INTERFACE, LOCAL/REMOTE STATIONS ANALOG 4-20 mA, NON-CONTACT LEVEL CONTROLLERS 1.0 THRU 10.0 CU/FT EXTENTION HOPPERS, DUSTLESS BAG LOADERS, FBIC INTERFACE HOPPER W/ IRIS VALVE, BAG FRAME CAPACITANCE SENSOR WITH SS HOPPER PROBE

Dry capacities are based on a polymer hydration time of 50 minutes. This processing model achieves 24 cycles within a 24-hour period. Increased mix times will decrease daily capacities. Factors affecting polymer solubility (mix time) are water temperature, molecular weight/charge and particle rheology.

ENGINEERING SPECIFICATIONS:

POWDERCAT Model NP-4250 shall be provided to meter, dynamically wet and transfer dry form polymer using a motorized disperser capable of processing 0-30 lbs/min of dry polymer and transferring the mixture at 250 gpm to an agitated mix tank. The NP-4250 shall be modular in design consisting of a volumetric feeder, motorized polymer processing module, secondary motive dilution header, inlet water valve and pressure sensor all of which is integrally mounted to a stainless steel frame. The volumetric polymer feeder shall be modular in design with a stainless steel exterior frame and a mechanically agitated flex liner. The system shall be designed to feed and transfer polymer/polymer mixture without the use of reserve pumps or pneumatic blowers. The polymer-processing module shall consist of an all stainless steel housing with an upper and lower flow chamber. The lower chamber shall contain a hermetically sealed stainless steel motor and housing assembly designed for chemical duty service. The upper chamber shall contain a flow divider, weir and induced air scrubber to contain small polymer dust particles. The polymer shall fall directly into the center of the rotor for rapid dispersion and wetting. No pre-wetting of the polymer is permitted. At no time shall the rotor become hydraulically enveloped. The control panel shall include a programmable logic controller, contactors for all motors, agitators and transfer devices, circuit breakers, phase loss monitors, motor drives, relays, timers and level control circuits necessary for the proper operation of the system.

NORCHEM

INC.

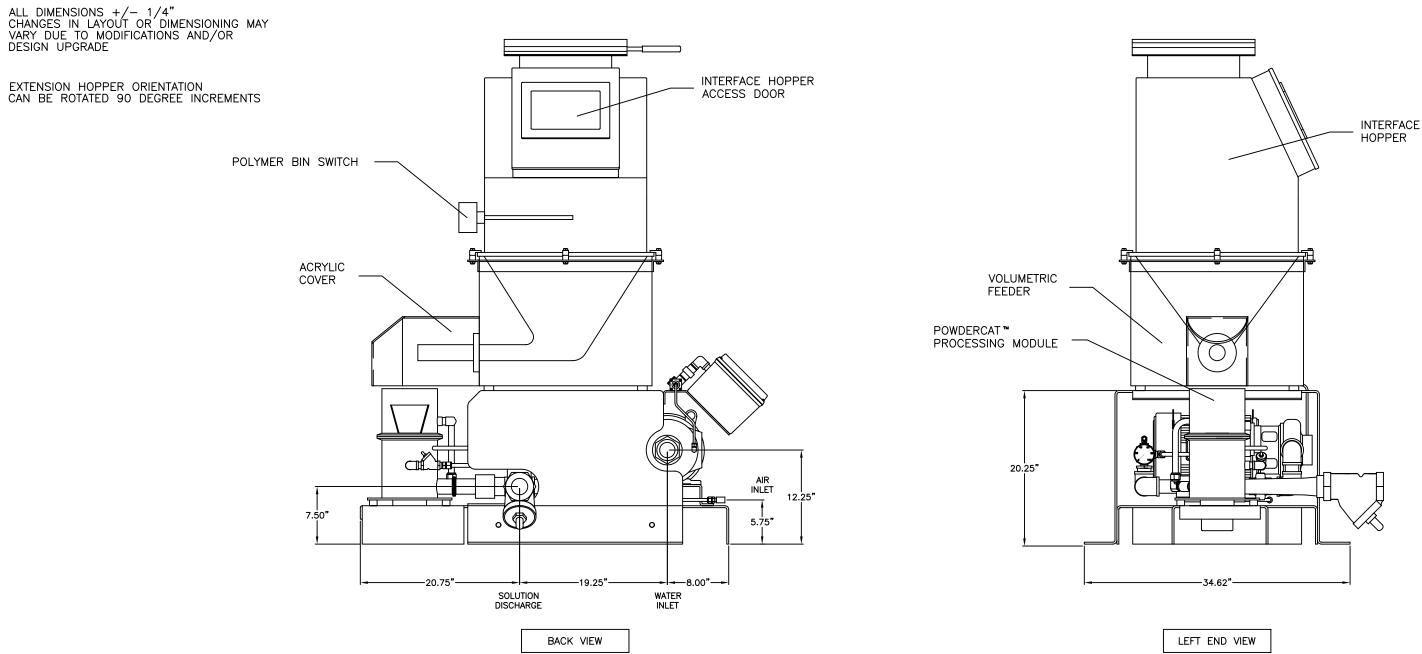
8910 W. 192nd STREET SUITE O MOKENA. ILLINOIS 60448 708.478.4777 08.02

PLAN & **ELEVATION**

POWDERCAT SERIES NP-4000

NP4000_SPEC_A

ELECTRICAL CONDUITS NOT SHOWN





8910 W. 192nd STREET MOKENA, ILLINOIS 60448 708.478.4777 04.02

PLAN & ELEVATION

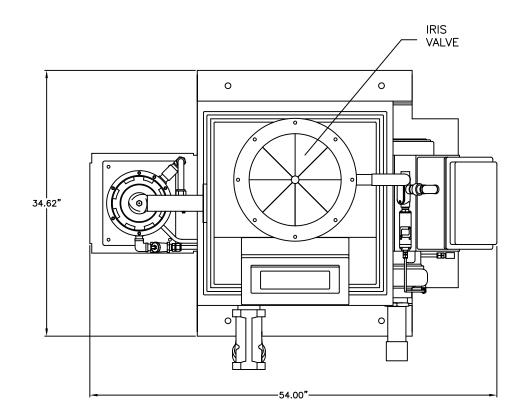
POWDERCAT SERIES NP-4000

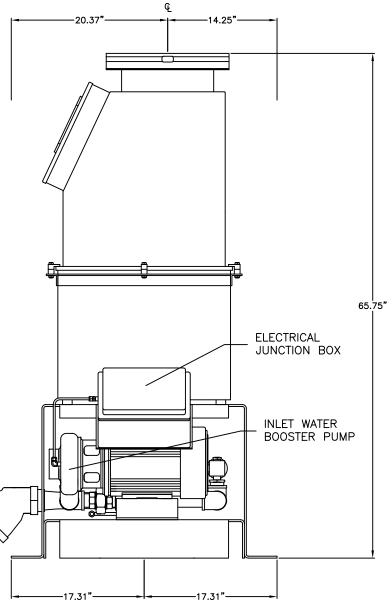
NP4000_SPEC_B

ELECTRICAL CONDUITS NOT SHOWN

ALL DIMENSIONS +/- 1/4" CHANGES IN LAYOUT OR DIMENSIONING MAY VARY DUE TO MODIFICATIONS AND/OR DESIGN UPGRADE

EXTENSION HOPPER ORIENTATION CAN BE ROTATED 90 DEGREE INCREMENTS





TOP VIEW

RIGHT END VIEW

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8910 W. 192nd STREET MOKENA, ILLINOIS 60448 708 . 478 . 4777 04.02

INTERFACE HOPPER CENTERLINE vs. FOOTPRINT

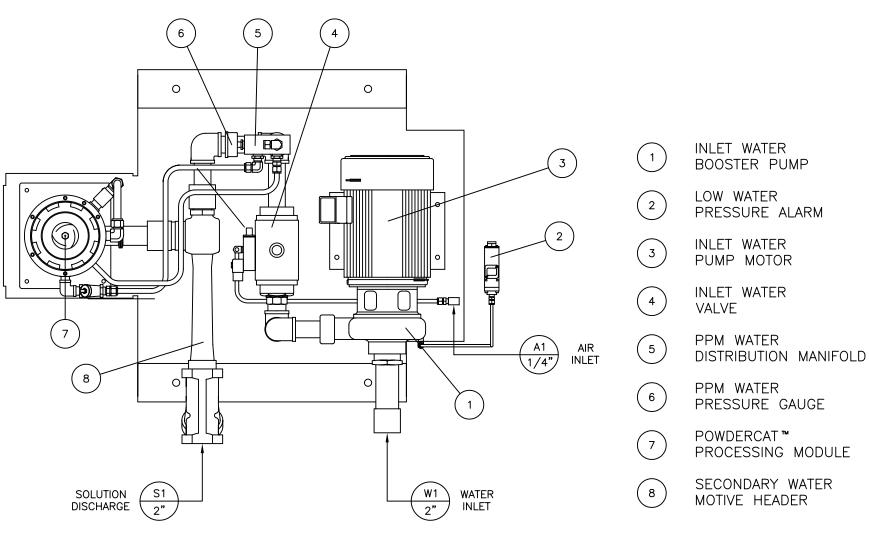
PLAN & **ELEVATION**

POWDERCAT SERIES NP-4000

NP4000_SPEC_C

ELECTRICAL CONDUITS NOT SHOWN

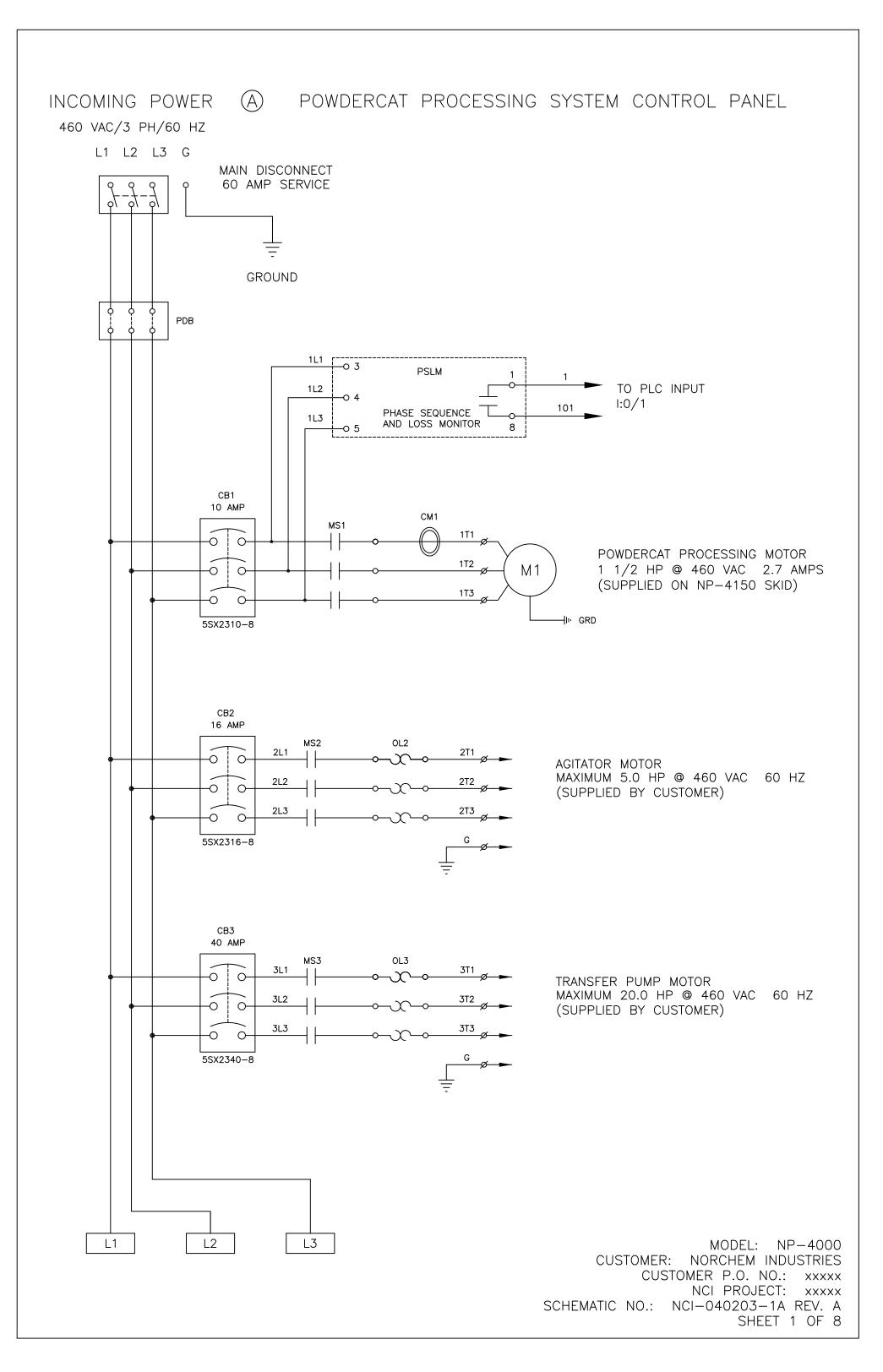
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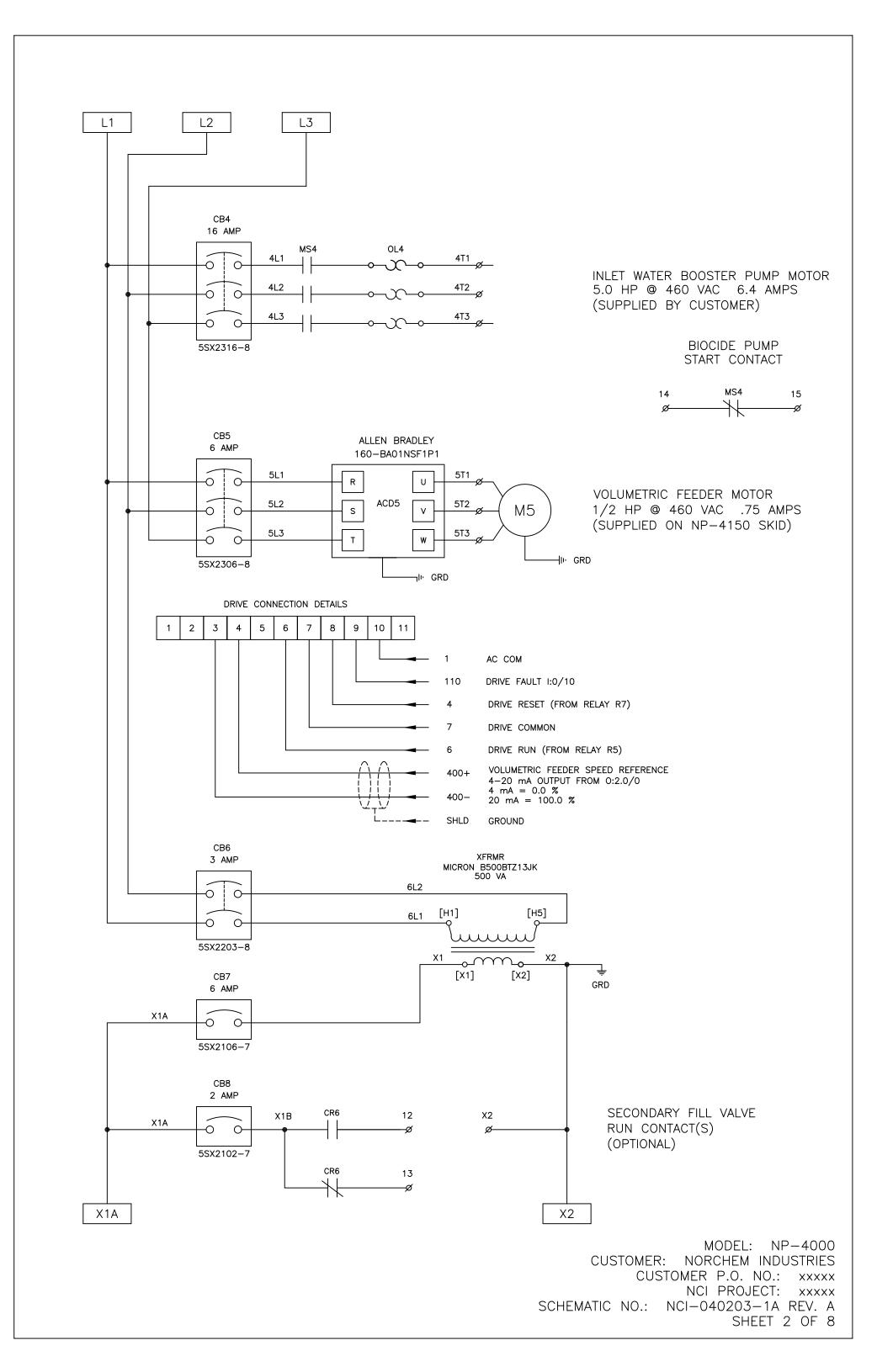


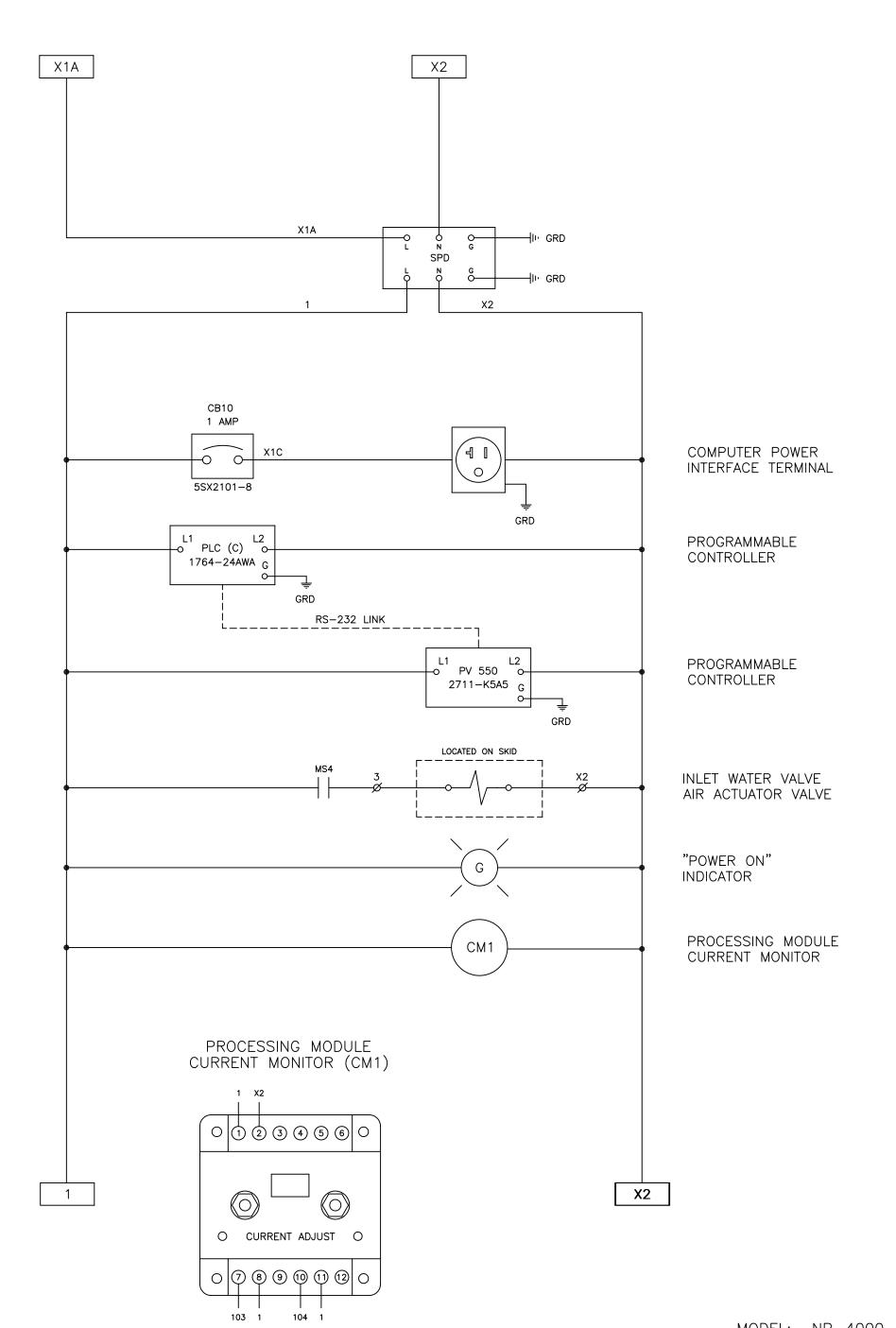
HYDRAULIC DETAIL



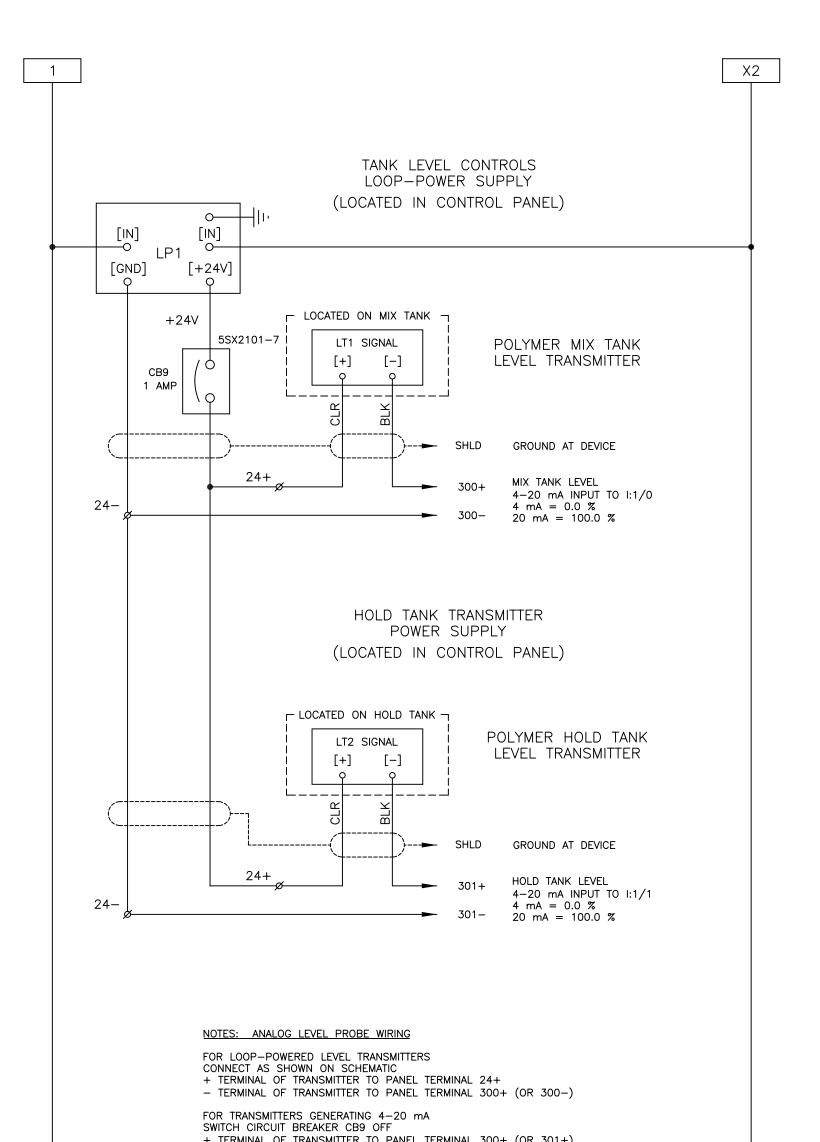
8910 W. 192nd STREET MOKENA, ILLINOIS 60448 708.478.4777 04.02







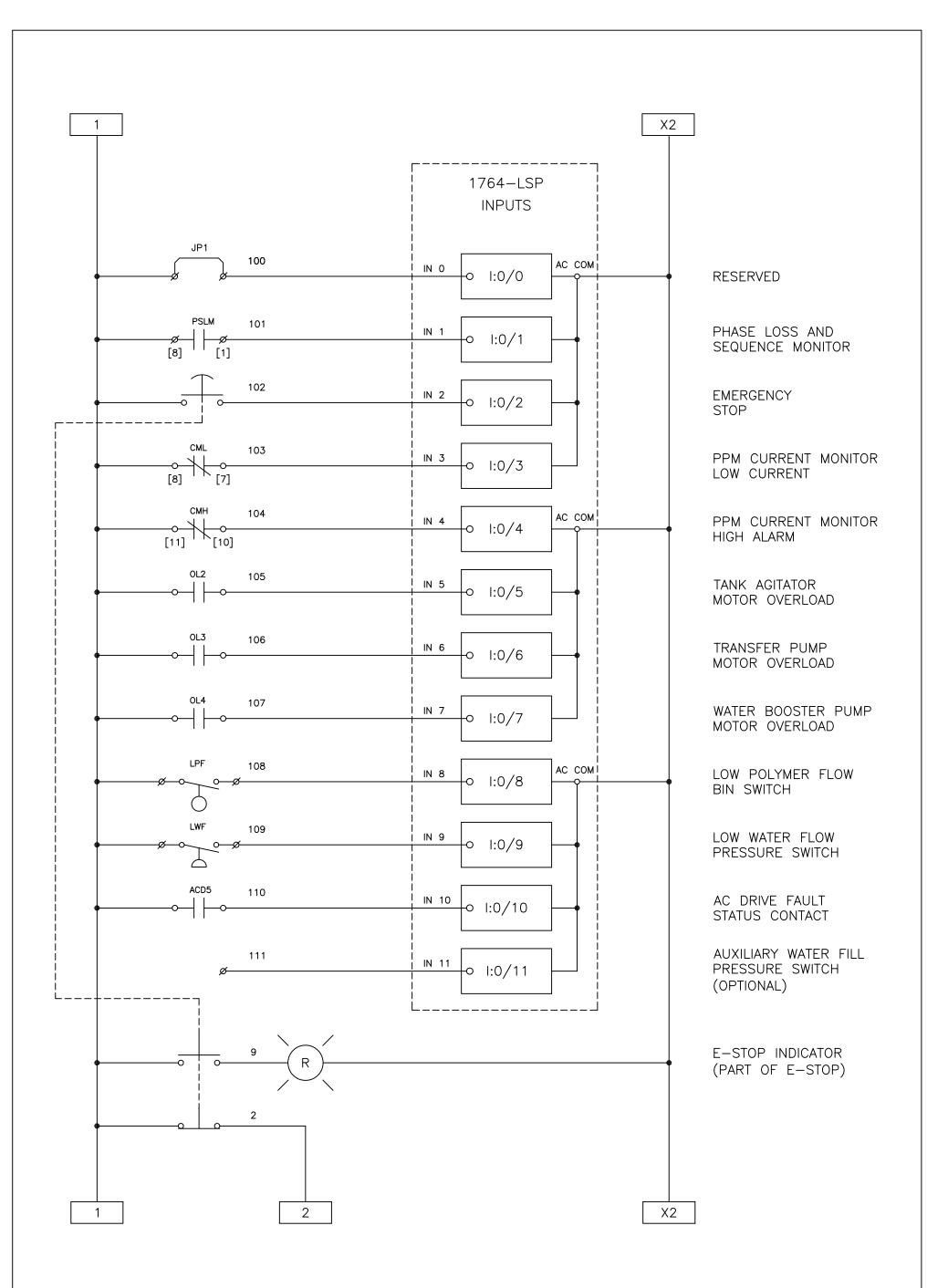
MODEL: NP-4000 CUSTOMER: NORCHEM INDUSTRIES CUSTOMER P.O. NO.: XXXXX NCI PROJECT: XXXXX SCHEMATIC NO.: NCI-040203-1A REV. A SHEET 3 OF 8



- MODEL: NP-4000 CUSTOMER: NORCHEM INDUSTRIES CUSTOMER P.O. NO .: xxxxx NCI PROJECT: xxxxx SCHEMATIC NO .: NCI-040203-1A REV. A SHEET 4 OF 8
- X2

1

- + TERMINAL OF TRANSMITTER TO PANEL TERMINAL 300+ (OR 301+)
- TERMINAL OF TRANSMITTER TO PANEL TERMINAL 300- (OR 301-)



MODEL: NP-4000 CUSTOMER: NORCHEM INDUSTRIES CUSTOMER P.O. NO.: XXXXX NCI PROJECT: XXXXX SCHEMATIC NO.: NCI-040203-1A REV. A SHEET 5 OF 8 2 X2 1764-LSP OUTPUTS 200 OUT 0 CR7 ∽ 0:0∕0 ∽ 201 VAC 1 OUT 1 0:0/1 0-CR5 -0 202 VAC 2 OUT 2 0:0/2 0 CR6 -0 203 VAC 3 OUT 3 0:0/3 0-0 -ø 204 OUT 4 VAC 4 -0 0:0/4 O-MS1 0L2 205 205A OUT 5 0:0/5 0-(MS2 OL3 206 206A OUT 6 0:0/6 0 MS3 OL4 207 207A WATER BOOSTER PUMP OUT 7 \mathbb{N} 0:0/7 0-MS4 MOTOR STARTER [5 HP] 208 СОМ DCS INPUT OUT 8 -0 0:0/8 0ø -ø COMMON FAULT 209 DCS INPUT OUT 9 0:0/9 0--ø COMMON ALARM 210 OUT 10 DCS INPUT 0:0/10 0 -ø PLC POWER OK 211 OUT 11 DCS INPUT 0:0/11 0--ø LOW HOLD TANK LEVEL

2

VOLUMETRIC FEEDER DRIVE RESET RELAY (TO ACD5)

VOLUMETRIC FEEDER DRIVE RUN CONTACT (AT ACD5)

SECONDARY FILL VALVE CONTROL RELAY

AUXILIARY PPM FILL SOLENOID VALVE (OPTIONAL)

PROCESSING MODULE MOTOR CONTACTOR [5 HP]

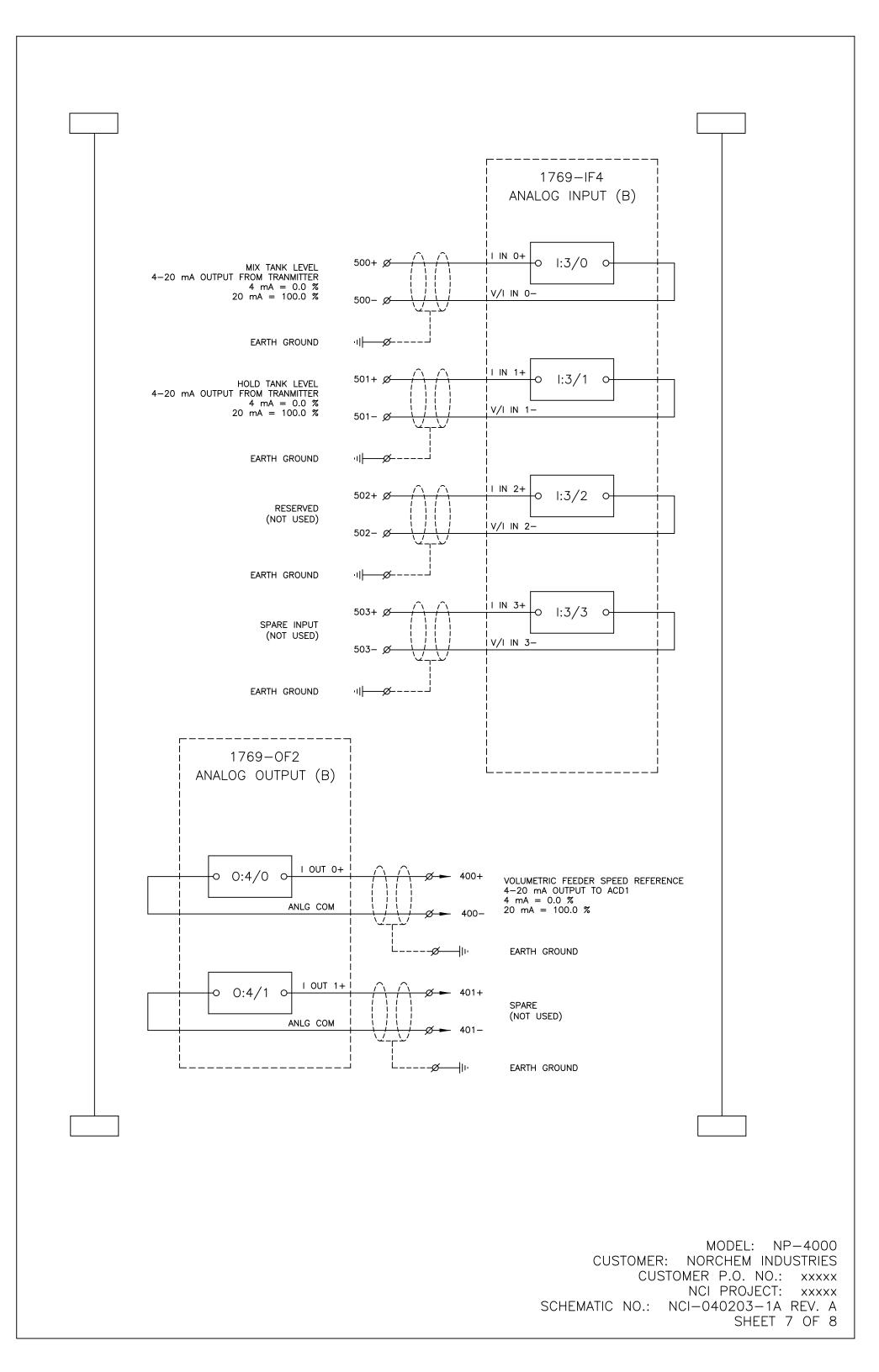
MIX TANK AGITATOR MOTOR STARTER [5 HP]

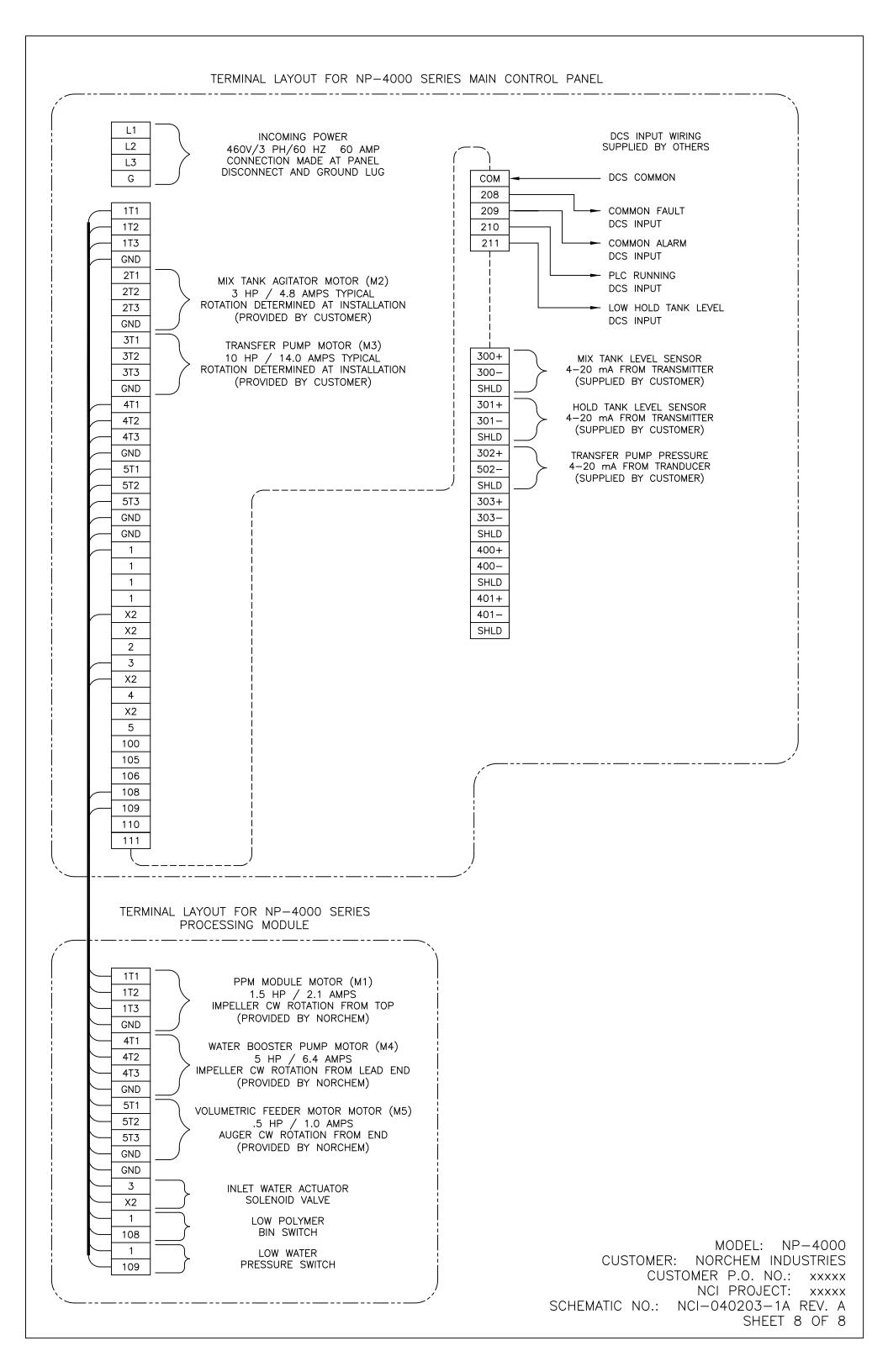
TRANSFER PUMP

MOTOR STARTER [20 HP]

MODEL: NP-4000 CUSTOMER: NORCHEM INDUSTRIES CUSTOMER P.O. NO.: XXXXX NCI PROJECT: XXXXX SCHEMATIC NO.: NCI-040203-1A REV. A SHEET 6 OF 8

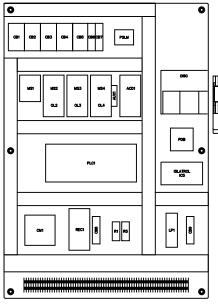
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(NORCHEM CUSTON	1 42" x 31" x 12" ENCLO	SURE)		
	NEMA 12 R AND DISPLAY LISTING			
OPERATOR	SYSTEM DANE	L DISCONNECT		
1 INTERFACE	(4) 600 VOLTS/6			
2 "POWER ON" INDICATOR	5 CONTROL PAN RATED NEMA	IEL ENCLOSURE 12 w/PAINT		
3 "EMERGENCY STOP" PUSHBUTTON	6 PROGRAMMER COMPUTER TA			

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PANEL LAYOUT

				REVISIONS		
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1			SERIES DRY POLYME FACE & SUBPANEL LAYO			
ITEM	DESCRIPTION			DESCRIPTION		
MS1 MS2	PROCESSING MO			100-C09D10 100-C16D10		
MS3	TRANSFER PUM	р мото	r starter	100-C23D10		
MS4 OL2	WATER BOOSTER		MOTOR STARTER	100-C16D10 193-EA2FB		
OL3	TRANSFER PUM			193-EA2GB		
OL4	WATER BOOSTER	r pump	MOTOR OVERLOAD	193-EA2FB		
CB1 CB2			ROCESSING MODULE	SIEMENS 55X2110-8 SIEMENS 55X2310-8		
CB2 CB3	CIRCUIT BREAKE			SIEMENS 55X2320-8		
CB4	CIRCUIT BREAKE	ER – BO	DOSTER PUMP	SIEMENS 5SX2310-8		
CB5 CB6			CONDARY DISCONNECT	SIEMENS 5SX2201-8 SIEMENS 5SX2110-8		
СВ6 СВ7	CIRCUIT BREAKE			SIEMENS 55X2110-8 SIEMENS 55X2106-8		
C88			5V COMPUTER RECEPTAG			
CB9			X TANK LEVEL 24 VDC	SIEMENS 55X2101-7		
SPD PSLM	SURGE PROTEC			ISOLATROL IC+105 DIV SLA-440-ASA		
PDB	POWER DISTRIB			A-B 1492-PD3141		
CM1			CURRENT MONITOR	CBA-120-ALE-5		
ACD1 R1	VOLUMETRIC FE			A-B 160-BA01NSF1P1 A-B 700-HK32A1		
R5	VOLUMETRIC FE			A-B 700-HK32A1		
LP1			ROLLER POWER SUPPLY	SCP30S24B-DN		
PLC1 PV550	PROGRAMMABLE PANELVIEW 550			MICROLOGIX 1500 A-B 2711-K5A5		
CABLE	PLC TO PANEL			A-B 1761-CBL-PM02		
DISC	SYSTEM DISCON			A-B 1494V-DS60		
TB1 LT1	GREEN LIGHT LI		LOCKS	A-B 1492-W10 SERIES A-B 800EP-PL3		
LT1	LIGHT ASSEMBL		NAME TAG	A-B 800E-3DL5		
LT1	LIGHT BULB			A-B 800E-N130		
AUX1 REC1	AUXILIARY CONT		OCK	A-B 100-SA10 PHOENIX 5600461		
PB1			HBUTTON WITH NAME TAG			
					NORCHEM II 8910 W. 192nd STRE	ET
			A	NORCHEM CONTROL PANEL LAYOU	8910 W. 192nd STRE MOKENA, ILLINOIS 604	ET
			A SYM.		8910 W. 192nd STREI MOKENA, ILLINOIS 604 UT	ET 148
				CONTROL PANEL LAYOU REVISIO	8910 W. 192nd STREI MOKENA, ILLINOIS 604 UT ONS	et 148 04-XX-03
D SOLEL' THAT IT RECARD	IS CHIK'D RI	WD	SYM.	CONTROL PANEL LAYOU REVISIO NORCHEM INDUSTRIE MOKENA, IL 60448	8910 W. 192nd STREI MOKENA, ILLINOIS 604 UT ONS S DRY POLYMER SYST	et 148 04-XX-03 DATE
	ED APP'D RI EL CADRILE: CT	WD WD	SYM. Custome	CONTROL PANEL LAYOU REVISIO NORCHEM INDUSTRIE MOKENA, IL 60448 NORCHEM NP-4150 CONTROL PANEL &	8910 W. 192nd STREI MOKENA, ILLINOIS 604 UT ONS S DRY POLYMER SYST	et 148 04-XX-03 DATE

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B2 ORIGHT BREAKER - THANGEN SIMULAS 552230-8 G83 GROUT BREAKER - THANGEN PURP SIMULAS 552230-9 G84 ORICUT BREAKER - TOURISCHER PURP SIMULAS 552230-9 G85 ORICUT BREAKER - SOCIALIZE REPARCE SIMULAS 552230-9 G86 ORICUT BREAKER - SOCIALIZE REPARCE SIMULAS 552210-8 G87 ORICUT BREAKER - SOCIALIZE REPARCE SIMULAS 552210-7 G89 ORICUT BREAKER - SUCURIER REPARCE SIMULAS 552210-7 G89 SIMULAS SESSION COLLOGE SIMULAS 552210-7 G89 ORICUT BREAKER - SUCURIER REPARCE SIMULAS 552210-7 G89 SIMULAS SESSION COLLOGE SOCHARC A-140-76A G89 ORICUT BREAKER - SUM CONTROL LOSE SOLARRE A-140-76A G80 ORICUT BREAKER - SUM CONTROL LOSE SOLARRE A-140-76A G81 VILLENCER - LASS MONTOR COM-12-74-55 G81 AUSLIANT FILL CONTROL REAK A-8 100-740-745-74-55 G81 VILLENCER SUM CONTROL REAK A-8 2711-745-745-74-75 G81 VILLENCE SOCIARE A-148 A-8 2711-745-75 G82 SYSTEM DORICON REAK	OL	L4 W	ATER BOOST	er pump	MOTOR OVERLOAD	193-EA2FB		
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OB ORGUT BEAKER - SCONMERT FIZZER SEMDIG 55/210-8 GB ORGUT BEAKER - VOLMETRE FIZZER SEMDIG 55/210-8 G27 ORGUT BEAKER - TIM COMPUTE RECEPTILE SEMDIG 55/210-8 GB ORGUT BEAKER - MOUNCLIDE SEMDIG 55/210-8 GB ORGUT BEAKER - MULTUR 24 VOL SEMDIG 55/210-7 GB ORGUT BEAKER - MULTUR 24 VOL SEMDIG 55/210-7 SPD SURCE FROTECTION ENCLE ISSURTOR, CH-05 PM MASS SOURCE 4, LOSS MONTOR DV SA-4-6-ASA, AD1 POWER DSTREMON BLOCK A-8 162-400-145 HA SERVICE SOURCE 4, LOSS MONTOR DV SA-4-6-ASA, AD1 POWER DSTREMON BLOCK CONFOL REAV A-8 102-400-145211 R1 AUXILARY TRUE DOWN EXCIT AND MARK A-8 270-463211 R1 R2 VOLUMETRO FEIZO DOWN EXCIT MUNTOR A-8 102-400-45311 R1 AUXILARY TRUE DOWNGLER A-8 102-400-45311 R2 POWER DSTREMUND KOTOR A-8 102-400-45311 R2 POWER DSTREMUND KORLER A-8 102-400-4502							4	
CRUIT BEAMER - VULNETRE FEEDER SHENDS 590210-8 CB CRUIT BEMARER - LODIC SHENDS 590210-7 CB CRUIT BEMARER - LIV COMFUTER RECEPTIALE SIMDIS 590210-7 CB CRUIT BEMARER - LIV COMFUTER RECEPTIALE SIMDIS 590210-7 CB CRUIT BEMARER - LIV COMFUTER RECEPTIALE SIMDIS 590210-7 CB CRUIT BEMARER - LIV COMFUTER RECEPTIALE SIMDIS 590210-7 CB CRUIT BEMARER - LIV COMFUTER RECEPTIALE SIMDIS 590210-7 FB DISTRICTON BLOCK SIGNIS 590210-7 FB DISTRICTON BLOCK LIV COMPUTER RECEPTIALE APB 102-AL-05 CD TH ARIAMER FEED AC DINE APB 102-AL-05 R VOLMETRE FEED AC DINE APB 102-AL-05 R COMPUTER PORTS TERMINA APB 102-AL-05 R COMPUTER FEED AC DINE APB 1002-AL-05 R RECEPTIALE - LIVOUT APB 1002-AL-05 LIT UARE BANE								
EPE ORGUT BEAMER CONTROL LODG SEALING SUBJECT CBB ORGUT BEAMER TIBY COMPUTER RESTRUCT SEALING SUBJECT CBB ORGUT BEAMER TIBY COMPUTER RESTRUCT BIOLING LOTO SPD SURGE PROTECTION DRIVE BIOLING LOTO BIOLING LOTO PRE IMME RENDERCH TO LOS MONTOR DIV SA-44-0-AAA PRE POWER DISTRIBUTION BLOCK A-B 100-AAAA COL POWER DISTRIBUTION BLOCK A-B 100-AAAA R5 VOUMERTER FEED DEME REST REAV A-B 700-HNS2A1 R5 VOUMERTER FEED DEMER BLEVEN A-B 8000E-FL3 T11 DECONSTRUER PROVENT BUDIEL A-B 8000E-FL3 T11 USHT NAME TAG A-B 8000E-FL3 T11 USHT NAME TAG A-B 800E-FRICTIONA R61 RESTRUERY ONTARY TAGA </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
CBB CRCUT BEAKER - 119/ COMPUTE RECEPTIALE SUBJONS 553(2101-7) CBP CRCUT BEAKER - MX TANK LEVEL 24 VOC SIBURIS 553(2101-7) SPD SUBJONE FROTECTION DOCCE ISOLITION EXCLOSE PBB FORME FROTECTION DOCCE ISOLITION CLA-105 PBB FORME STREATION ROCK A-B CADI VOLUMETRIC FEED & ORING CA-120-ALF-5 CADI VOLUMETRIC FEED & ORING A-B CADI VOLUMETRIC FEED & ORING A-B PDS PROEMANABLE LOGIC CONTROLLER MCRONDRY 1100 LP1 MXT INVELVEL CONTROLLER POWER SUPPLY SCP305248-0N PC01 PROEMANABLE LOGIC CONTROLLER MCRONDRY 1100 PX05 PROLEVER SSO OPERATOR TETAINAL A-B 171-CBL-PM02 DSC STETED DECONECT TO AMP A-B 1100-CBL-PM02 DSC STETED DECONECT TO AMP A-B 8000F-913 L11 LDGT RUSA A-B 8000F-913 L11 LDGT RUSA A-B 8000F-913 L11 LDGT RUSA A-B 8000F-913 L11 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td>							-	
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